

East Tennessee State University

2007-2008 Catalog

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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

*Registration, Programs of Study, Degree Requirements,
Academic Regulations*

Student Affairs	439-4210
Office of the Comptroller	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 Placement & Internship Svcs	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	439-5275
Continuing Studies	439-8300
Education	439-7626
Graduate Studies	439-4221
Medicine	439-6315
Nursing	439-7186
Pharmacy	439-2068
Public and Allied Health	439-4243

Centers

ETSU at Kingsport	392-8000
Marshall T. Nave Center (Elizabethton)	547-4900
ETSU at Bristol	844-6300

Academic Calendar 2007-2008

Fall Term 2007

May 30	Application deadline for December graduation
July 16	Admission application deadline for priority processing
*Aug. 20-24	Registration
Aug. 27	First day of classes
Aug. 31	Last day to late register or late add a course
Sept. 3	Labor Day Holiday
Sept. 7	Last day to drop without a grade of "W"
Sept. 11	Application deadline for May graduation
Oct. 15-16	Fall Break
Nov. 22-23	Thanksgiving Holidays
Dec. 5	Last day to withdraw from the university
Dec. 7	Last day of classes
Dec. 8-13	Final Examinations
Dec. 15	Commencement

Spring Term 2008

*Jan. 7-11	Registration
Jan. 14	Classes begin
Jan. 18	Last day to late register or late add a course
Jan. 21	Martin Luther King holiday
Jan. 25	Last day to drop a course without a grade of "W"
Jan. 30	Application deadline for an August degree
March 3-8	Spring Break
March 9	Last day to drop a course
March 21	Good Friday Holiday
April 23	Last day to withdraw from the university
April 25	Last day of classes
April 26 - May 1	Final Examinations
May 3	Commencement

Summer Term 2008

Complete Session, May 12 - Aug. 8

Pre-Summer, May 12 - 30

*May 5 - 9	Registration
May 12	Classes Begin
May 13	Last day to late register or Late add a Pre-Summer course
May 16	Last day to drop a course without a grade of "W"
May 22	Last day to drop a course
May 26	Memorial Day Holiday
May 28	Last Day to withdraw
May 30	Last day of classes

Dual Session, June 2 - Aug. 8

Session 1, June 2 - July 3

May 26 - 30	Registration
June 2	Classes begin
June 4	Last day to late register or Late add a course (Session 1)
June 5	Last day to late register or Late add a course (Dual Session)
June 8	Last day to drop a course without a grade of "W" (Session 1)
June 15	Last day to drop a course without a grade of "W" (Dual Session)
June 20	Last day to drop a course (Session 1)
July 1	Last day to withdraw (Session 1)
July 3	Last day of classes (Session 1)
July 4	Independence Day Holiday

Session 2, July 7 - Aug. 8

June 30 - July 3	Registration
July 7	Classes begin
July 9	Last day to late register or Late add a course (Session 2)
July 13	Last day to drop a course with grade of "W" (Session 2)
July 25	Last day to drop a course (Session 2)
Aug. 6	Last day to withdraw Session 2 and Dual Session
Aug. 8	Last day of classes

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

East Tennessee State University Johnson City, Tennessee

Vol. XCIV

April 2007

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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.

















East Tennessee State University is a Tennessee Board of Regents institution. 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.

Table of Contents

Academic Calendar	Inside Front Cover	Double Majors	34
Accreditation	4	Double Degrees	34
Memberships	4	TBR and the University of TN System Institutions Requirements	34
Student Conduct, Rights, and Responsibilities	4	Achievement Test Requirements	34
Campus Security Report	4	Eligibility For Participation In Graduation Ceremonies	34
Misrepresentation of Academic Credentials	4	General Education Requirements	35
Student's Bill of Rights	5	Graduation Requirements, Other	37
Student Complaint Policy and Procedure	5	Degree Program Majors and Concentrations	39
East Tennessee State University	6	The Honors College	47
Vision Statement	6	College of Arts and Sciences	49
ETSU Mission	6	African and African American	51
ETSU Values	6	Appalachian Studies Minor	51
ETSU Strategic Goals	6	Department of Art and Design	52
The University	7	Department of Biological Sciences	55
Enrolling at ETSU	8	Bluegrass, Old Time, and Country Music Minor	58
Undergraduate Admission	8	Department of Chemistry	59
Readmission	9	Department of Communication	63
Transfer Student Admission	9	Department of Criminal Justice and Criminology	67
Advanced Standing Credit	10	Department of English	69
College Level Examination Program (CLEP)	10	Environmental Studies Minor	70
University Credit for Experiential Learning	10	Film Studies Minor	70
Second Undergraduate Degree Students	11	Department of Foreign Languages	71
Visiting Student Admission	11	Department of History	73
Admission of International Students	12	International Studies Minor	75
Enrollment of Disabled Persons/Persons Over 60 Years of Age	12	Legal Studies Minor	75
Academic Fresh Start	12	Department of Mathematics	75
Academic Common Market	12	Department of Music	78
Registration and Orientation	13	Department of Philosophy and Humanities	81
Student ID Card	14	Department of Physics, Astronomy, and Geology	82
Expenses	14	Department of Political Science	85
Tuition and Fees	14	Department of Psychology	86
Refund Policies	15	Department of Social Work	88
Undergraduate Student Advisement	17	Department of Sociology and Anthropology	90
Financial Aid and Scholarships	18	Technical Writing Minor	92
University Student Employment	20	Women's Studies Minor	92
University Loans	20	College of Business and Technology	94
Scholarships	21	Department of Accountancy	96
Organizations and Activities	22	Department of Economics, Finance, Geography, and Urban Studies	96
Sororities and Fraternities	22	Department of Management and Marketing	100
Academic Clubs	22	Department of Computer and Information Sciences	102
Honor Societies	22	Department of Family and Consumer Sciences	105
Campus Ministry Opportunities	22	Department of Technology and Geomatics	110
Campus Recreation	27	Department of Military Science	120
Intercollegiate Athletics	28	School of Continuing Studies	122
Classification of Courses by Level	29	Bachelor of General Studies	123
Academic Regulations	29	Bachelor of Applied Science	124
Classification of Courses	29	Bachelor of Science in Interdisciplinary Studies	125
Declaring a Major	29	Bachelor of Science in Professional Studies	125
Grades	29	Clemmer College of Education	127
Dean's List	29	Department of Curriculum and Instruction	129
Registration Process	30	Department of Human Development and Learning	131
Credit Hour Regulations	30	Department of Kinesiology, Leisure and Sport Sciences	136
Student Classification	30	Division of Health Sciences	140
Class Load	30	College of Medicine	140
Class Attendance Policy	30	College of Nursing	141
Repeating a Course	31	College of Public and Allied Health	144
Incomplete Grades	31	Department of Allied Health Sciences	145
Auditing a Course	31	Department of Communicative Disorders	150
Adding and Dropping Courses	31	Department of Environmental Health	151
Withdrawing from the University	31	Department of Health Sciences	153
Academic Probation and Suspension Policies	32	Department of Physical Therapy	155
Work in Other Institutions	32	Department of Public Health	155
Degree and Graduation Requirements	33	Department of Women's Studies	156
Degrees Available	33	School of Graduate Studies	158
Bachelor Degree Requirements General	33	Course Descriptions	159
Foreign Language Proficiency (B.A.)	33	Faculty Listing	249
Second Bachelor's Degree	33	Administration Directory	270
Honor's Distinction	33	Index	271
Application for Degree	34		

Tab Index

Enrolling at ETSU	
Student Advisement	
Financial Aid	
Organizations	
Academic Regulations	
Degree and Graduation Requirements	
Degree Programs, Majors, and Concentrations	
College of Arts and Sciences	
College of Business and Technology	
School of Continuing Studies	
College of Education	
College of Nursing	
College of Public and Allied Health	
Course Descriptions	
Faculty Listing	
Administration	

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 (1866 Southern Lane, Decatur, Georgia, Telephone number 404-679-4501) to award certificate, associate, bachelor's, master's, educational specialist, doctor of education, Ph.D., and M.D. degrees.

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.

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.

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.

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.

Graduate 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 School of Graduate Studies, P.O. Box 70720, Phone: (423) 439-4221.

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 12,000 students, many of them from the Tri-Cities Tennessee/Virginia and surrounding areas. Students from all 50 states and from numerous other countries also attend ETSU.

ETSU comprises 10 colleges and schools: College of Arts and Sciences, College of Business and Technology, Claudius G. Clemmer College of Education, Honors College, James H. Quillen College of Medicine, College of Nursing, College of Pharmacy, College of Public and Allied 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, including undergraduates, graduates, and students and residents in the colleges of Medicine and Pharmacy. Serving a wide range of students, from those who have emerging potential for university-level coursework to the gifted, ETSU provides all citizens in the region 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 leading to 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 students population and promote regional development. Doctoral programs are available in a number of areas.

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 12,000 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 300 agreements with 14 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 students' view of the world and urge them 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 establishment of the James H. Quillen College of Medicine and its combination with the colleges of Nursing and Public and Allied Health to form a Division of Health Sciences 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 recent creation of the College of Pharmacy further enhances this aspect of the university's mission.

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 will continue 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 will seek to balance the innovations of the 21st century with the vital person-to-person relationships that have characterized an ETSU education 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 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.

** 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	1
geography, 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. College courses taken to remove unit deficiencies must be completed with a grade of "C" or better and will not be included in general education core or major requirements.

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.

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:** 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:** 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 and a minimum ACT composite of 23 with no subscore below 19. Students may register for no more than seven (7) semester hours per semester when enrolled in this program.
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 12 or more transferable semester hours of credit earned	Admission Requirements Minimum overall GPA on transferable hours
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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 Less than 12 transferable semester hours of credit earned	Admission Requirements Minimum overall GPA on transferable hours
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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 recommendations:

1. Fully complete the application form (all sections should be completed including dates where specified). Forms should be submitted to the Office of Admissions by August 15th for Fall Semester and by December 15th for Spring Semester.
2. Provide the appropriate application fee at the time of application.
3. 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 or for those with an associate degree designed for transfer or 50 or more transferable semester hours. Such documentation must be provided by August 15th for Fall Semester and by December 15th for Spring Semester.
4. Provide official transcripts* from all previously attended colleges and universities 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.

* 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.

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 700 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 satisfactory 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). For transfer students with less than 12 semester hours of credit, assessment in reading will also 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.

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 or certificate program of study. Undergraduate Special Students may enroll only in undergraduate level coursework.

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 Academic Affairs 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 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.

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 is not included in this provision.

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 Academic Affairs 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 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 Family and Consumer Sciences	
<i>(Apparel Merchandising option only)</i>	
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 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 Only)</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	Alabama
	Virginia
Master of Arts in Reading (<i>Storytelling Option</i>)	Alabama
	Florida
	Georgia
	Kentucky
	Louisiana
	Maryland
	Oklahoma
	South Carolina
	Texas
Master of City Management	Delaware
Master of Public Management	
Master of Science in Clinical Nutrition	South Carolina

Doctorate of Audiology	Georgia
	South Carolina
Master of Science in Technology	North Carolina
<i>(Geoscience Option)</i>	

Instructions for In-State Tuition Requests

Available to residents in

Virginia: Lee, Scott, and Washington counties

North Carolina: Avery, Madison, Watuaga, and Yancy 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.

Student ID Card

All students must obtain a permanent East Tennessee State University ID card in order to have full access to all university facilities and services. This card will not only provide student identification, but will also allow students to create a debit account for convenient use in the bookstore, comptroller's office, health clinic, food services, vending machines, laundry facilities, and provide controlled access to residence halls. IDs will be issued during orientations or at the ID Office during the term. Please contact the University Center ID Office on the 2nd floor of the D.P. Culp University Center for additional information. Hours: Monday-Thursday: 8 a.m. - 7 p.m. Friday: 8 a.m. - 4:30 p.m.

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 2007 - 2008
(Subject to change)**

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 Registration Fee

One hundred, sixty-eight dollars (\$168) per semester hour, not to exceed (\$1,914) 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 Registration Fee

Two hundred, seventy-two dollars (\$272) per semester hour, not to exceed (\$2,569) 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.

Out-of-State Tuition

Four hundred, twenty-one dollars (\$421) per semester hour, not to exceed \$4,847 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**.

**General Expenses
Board**

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

Books

First-semester freshman (estimate per semester) \$300 - \$450
Other, if used books are exchanged
(estimate per semester) \$300
Some books can be used for a full year. In some instances used books are available.

Materials Fees

Astronomy Materials Fee \$20
Biology Materials Fee \$20
Chemistry Materials Fee \$18
Geology Materials Fee \$20
Physics Materials Fee \$20

Course Fees

Business Course Fee \$20 per credit hour
Computer Sciences Fee \$12
Dental Hygiene Course Fee \$13
Digital Media Course Fee \$100 per credit hour
Departmental Course Exam Fee \$15 per credit hour
Online Distance Education Fee 7% of course tuition
Physical Education Assessment Fee \$30
Physical Therapy Course Fee (Anatomy course only) \$83
Radio and Television Course Fee \$7 - \$41

Additional Fees

Debt Service Fee \$8 per credit hour
Debt Service Fee — Maximum \$90
Student Activity Fee-All students registered for credit
(Fall & Spring, Only) \$20
General Access Fee — Per Hour \$42 per credit hour
(nonrefundable)
General Access Fee — Maximum \$294.50
(nonrefundable)
Music Fee (Individual Instruction) \$150 per half hour lesson

Miscellaneous

Late Registration \$100
Post Office Box Rental (per semester) \$10
Transcripts NO CHARGE
Replacement Diploma \$10
(*Fees are subject to state and local sales tax.)

Housing

(Subject to change)

Undergraduate Residence Halls/Efficiency Apartments

Deposit \$100

Rent

Double Occupancy \$1,213 - \$2,225 per semester
Single Occupancy \$2,426 - \$4,450 per semester

Buccaneer Village (Married and Graduate Housing)

Deposit \$150

Rent

Efficiency \$1,461 per semester
One-Bedroom \$1,583 per semester
Two-Bedroom \$1,777 per semester
(Includes water, telephone, data access and cable TV; electricity extra.)

Buccaneer Ridge Apartments

Deposit \$150

Two- and Four-Bedroom Apartments
(per person, per semester) \$2,310 - \$2,404

Single occupancy bedrooms for sophomores and above with 9 and 12 month, individual, leases available. Fully furnished; washer/dryer, telephone, data access, and cable TV hookup included; electricity and water extra; gated community. Monthly rates/deferred payments are available, if eligible.

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 \$20 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 account statement. If the awarding of aid is complete and the student's fees are paid in full, the student's registration will 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 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.

Refund Policies

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

Change of a Student's Status Which May Permit a Refund

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 Refund

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

Refund Procedures

Refunds are defined as the portion of maintenance and/or tuition and university housing charges due as a rebate when a student drops, withdraws, or is expelled from the university. The amount of the refund is determined according to the schedule below.

Seventy-five percent of fees will be refunded for drops or withdrawals within 14 calendar days beginning with and including the first official day of classes or within a proportioned period for a short-term course. Twenty-five percent of fees will be refunded following the 14 calendar days through the expiration of one-fourth (25 percent) of the time covered by the term. These refund procedures are also applicable to dormitory rent. No refund will be made thereafter.

One hundred percent of fees will be refunded for classes canceled by the institution. One hundred percent of fees will be refunded for drops or withdrawals prior to the first official day of classes for the regular academic terms and prior to the beginning of summer term. One hundred percent of fees will be refunded in case of a student's death.

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 Comptroller's Office, 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.

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. 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 should 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.

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 who have not declared a major or who are taking Developmental Studies Program (DSPx) courses should go to the University Advisement Center located on the second floor of the D.P. Culp Center in the Advisement Resources Career Center (ARC). Students who require only DSP mathematics courses are advised in their major. Students taking classes in Bristol or Kingsport may contact these centers 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 that includes scholarships, grants, loans and work-study programs.

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 early as possible after January 1 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.

Tennessee residents with Pell Grant eligibility may qualify for the Tennessee Student Assistance Award (TSAA). This state grant program has limited funding and early completion of the FAFSA is necessary.

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.

Students should seek scholarship assistance in the Scholarship Office as well as through their communities. High School guidance counselors and the university financial aid counselors can be sources of additional information. Various self-help options may be considered by the student and include both employment and loans. Students are encouraged to consider their ability to repay when they borrow through student loan programs. Students may also want to explore their eligibility for vocational rehabilitation benefits and veterans' benefits.

Financial aid programs, rules, and regulations are subject to change. Federal and state funds are conditional upon congressional appropriations and receipt of those funds at ETSU.

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 on 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 form must be renewed each academic year.

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 solved the problem.

"Funding Education Beyond High School," a publication from the United States Department of Education, is a helpful source of information regarding the federal financial aid programs. Copies are available from the Office of Financial Aid or directly from the United States Department of Education, at www.studentaid.ed.gov/guide or via phone at 800-4FED-AID (800-433-3243).

Student Eligibility

To be eligible for federal financial aid programs - the Federal Pell Grant Program, the Federal Supplemental Educational Opportunity Grant (FSEOG), the Federal Perkins Loan, the Federal Work Study Program (FWS), and the Federal Family Educational Loan Programs that include the Federal Stafford and Federal Parent Loan for Undergraduate Students (FPLUS) - the 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. Be registered with the Selective Service, if you are a male;
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 prerequisite classes for admission into a graduate degree program or enrolled in classes to complete teaching certification requirements. Federal Stafford Loans may be awarded for a maximum of 12 consecutive months and a one-time occurrence during educational career.

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 and credits 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 credits completed and cumulative GPA, East Tennessee State University will utilize the following satisfactory progress policy.

I. Progress Standards

A. Progress Per Award Year: Students must, as a minimum, receive a satisfactory grade (*) in the courses they attempt fall and spring semesters as outlined below:

When student receives financial aid based upon fall/spring enrollment of:	The student must complete satisfactorily, between fall/spring, a total of:
24 or more credit hours	21 credit hours
18 - 23 credit hours	15 credit hours
12 - 17 credit hours	9 credit hours
6 - 11 credit hours	6 credit hours
Less than 6 credit hours	Complete all credit hours attempted

(*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.

B. Cumulative Progress: Students must, in addition to the above, meet the retention standards of East Tennessee State University as outlined in the current East Tennessee State University Catalog.

C. Maximum Eligibility: Attempted credit hours: Students who have reached 150 percent of attempted credit hours toward their degree will become ineligible for financial aid.

II. Evaluation Process

- A. Academic progress is reviewed at the end of each term and students who did not make satisfactory academic progress will be notified in writing.
- B. 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 regain eligibility.)
- C. Repeat courses will be counted in earned credit hours. (Note: ALL courses attempted count in total credit hours attempted.)
- D. Transfer courses recognized by ETSU will be counted in attempted and earned credit hours.
- E. All distance education, telecommunications, television, and web-based courses are considered in total attempted hours.
- F. Academic Fresh Start students will have their satisfactory academic progress evaluated on work attempted after returning to the university under the Academic Fresh Start policy. However, the maximum eligibility requirement (150%) still applies.
- G. 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.
- H. Students classified as “Undergraduate Special” (SPU) **may** be eligible for federal financial aid; check with your Financial Aid Counselor.
- I. 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:
 1. Required for a teacher certification program (the loan limit is that of a fifth-year undergraduate);
 - or
 2. Necessary as prerequisite courses for enrollment into a graduate program (the loan limit is that of a fifth-year undergraduate).
- J. Students may receive aid for no more than 30 attempted credit hours of remedial coursework. English as a Second Language (ESL) classes are included in the 30 hours.

III. Regaining Financial Aid Eligibility

A. 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 within two weeks of notification. The appeal must be prepared in writing on the Satisfactory Academic Progress Appeal Form, and must be accompanied by appropriate supporting documents.

Reasons that may be acceptable for the appeal are:

1. Serious illness or accident on the part of the student.
2. Death, accident, or serious illness in the immediate family.
3. Class cancelled by ETSU.
4. Other acceptable extenuating circumstances.

B. Making Up Deficient Credit Hours Without Aid: In the event that the student does not qualify for an appeal, he/she may be eligible to have financial aid reinstated by taking the following actions:

1. Earn at ETSU the number of deficient credit hours (see chart for credit hour requirements) in which aid was received.

2. Pay for these hours without financial aid.
3. Maintain a minimum 2.0 GPA for the semester average for those credit hours.
4. Notify the Office of Financial Aid when the deficient hours have been earned.

IV. Appeal Limits

The maximum number of appeals any student may normally have granted is two (2).

Under extreme circumstances, a third appeal may be granted, 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.

Federal Financial Aid Application Procedures

These steps streamline the financial aid application process for students.

1. Apply for a personal identification number (PIN) at www.pin.ed.gov for yourself and your parents, if you are dependent and you do not already have one.
2. Every year, complete the Free Application for Federal Student Aid (FAFSA) as soon as possible after January 1 using accurate tax information from the previous 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 university may also request other information.
5. When the financial aid award letter is received, the student should 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 and complete entrance loan counseling for Perkins at www.mapping-your-future.org regardless if completed at another institution.

Entrance and exit loan counseling may be done electronically online at the following web site: mapping-your-future.org. The student must complete an online form which will be sent electronically to the Office of Financial Aid at East Tennessee State University. Receipt of the form is to confirm completion of the required loan counseling session. Contact the Office of Financial Aid if you encounter problems with electronic loan counseling.

**Financial Aid
Important Dates**

EARLY application every year remains the most important action in securing funds to assist with financing the student's education. The university recommends the following dates as guidelines:

- January 1** Complete the Free Application for Federal Student Aid (FAFSA) as soon as possible using accurate tax information.
- February 15** Priority date for Tennessee residents to apply for the Tennessee Education Lottery Scholarship (TELS) and/or the Tennessee Student Assistance Award (TSAA) using the FAFSA form.
Deadline for new freshmen to apply for the Academic Performance Scholarship (APS).
- March 1** Deadline to apply for ETSU scholarships unless stated otherwise in the Financial Aid and Scholarship Brochure.
- 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 July 1 **should not** anticipate having aid available at the beginning of the fall term.
- May 1** Deadline to have FAFSA processed to be considered for TSAA and TELS.
- May 15** Deadline for new transfer students to apply for APS.
- November 15** Priority date for student financial aid files to be complete to have financial aid available at the beginning of the spring term.

DEADLINES to have FAFSA processed to be considered for TELS:

- September 1 - Fall
- February 1 - Spring
- June 1 - Summer

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 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.

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.

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 and graduate students.

For more information on each of these loan programs, please refer to "Funding Education Beyond High School" at www.studentaid.ed.gov/guide.

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 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.state.tn.us/tsac. 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

Serving in leadership positions on campus and in the community is a necessary part of the educational experience at ETSU. Leadership education is offered to students through credit courses, workshops (Breakfast Club, Leadership Forum), living-learning community in Buc-Ridge Apartments (Leadership House) as well as involvement in 175+ student organizations on campus. Contact the Student Organization Resource Center, phone 423/439-6633 for more information.

Sororities-Fraternities

Greek Life — Greek Life at ETSU offers exciting opportunities for you to enhance your college experience and develop friendships that will last a lifetime. Greek Life provides occasions for social interaction and intramural participation, encourages scholarship and service, and strengthens individual identity and leadership skills. Greeks impact the campus by maintaining high ideals and continuing a long-standing tradition of excellence and honor.

Contact the Student Organization Resource Center, phone 423/439-6633 for more information.

Academic Clubs

Actuarial Student Association
 Advertising Club
 Alpha Sigma Iota
 American Congress on Surveying and Mapping
 American Marketing Association
 American Society of Interior Designers
 Appalachian Traditional Music Association
 Art Students League
 Association for Computing Machinery
 Association of Student Nurses
 Association of United States Army
 Biomedical Sciences Graduate Association
 Buccaneer Outdoor Recreation Club
 Club Cervantes
 Construction Management Association
 Criminal Justice Graduate Society
 Criminal Justice Undergraduate Society
 Der Deutsche Club - German Club
 E.D.G.E. Club
 Entrepreneur's Club
 Graduate Students Association of Psychology
 History Club
 Human Development and Learning
 Japanese Cultural Society
 La Societe Francais
 Master of Public Health
 Mathematical Association of America
 Mockingbird
 Percussion Society
 Phi Mu Alpha Sinfonia - Music
 Philosophy Club
 Physical Education Major Club
 Pre-Law Society
 Printmakers Guild
 Psychology Club
 Public and City Management Association of Graduate Students
 Public Relations Student Society of America
 Respiratory Therapy Association
 Sisters in Music
 Society for Human Resources Management
 Society of Professional Journalists
 Student Affiliates of the American Chemical Society
 Student American Dental Hygienists Association

Student Association for Young Children
 Student Ceramic Association
 Student Dietetic Association
 Student Metal Art Connoisseurs
 Student Painting, Drawing, and Alumni Association
 Student Photography Association
 Student Radiographers
 Student Sculpture Society
 Student Social Workers Association
 Student Speech Communication Association
 Student Tennessee Education Association
 Students of Finance Administration
 Taletellers

Honor Societies

Alpha Lambda Delta
 Alpha Phi Sigma
 Alpha Psi Omega
 Alpha Sigma Lambda
 Alpha Sigma Iota - Broadcasting
 Beta Alpha Psi - Business
 Beta Beta Beta
 Delta Omicron
 Delta Phi Alpha - German
 Delta Sigma Pi
 Epsilon Pi Tau
 Eta Sigma Gamma - Public Education
 Gamma Beta Phi
 Golden Key Honor Society
 Iota Iota Iota - Women's Studies
 Kappa Delta Pi
 Kappa Mu Epsilon - Mathematics
 Kappa Omicron Nu - Family and Consumer Sciences
 Lambda Delta Alpha - Communication
 National Residence Hall Honorary
 Omicron Delta Kappa
 Order of Omega - Greek Leadership
 Phi Alpha Honor Society
 Phi Alpha Theta - History
 Pi Delta Phi Honor Society - French
 Pi Gamma Mu - Social Science
 Pi Sigma Alpha - Political Science
 Psi Chi - Psychology
 Rho Lambda - Panhellenic Leadership Honor Society
 Sigma Theta Tau - International Honor Society for Nursing Students

Campus Ministry Opportunities

Baptist Collegiate Ministries
 Campus Crusade for Christ
 Catholic Campus Ministries
 Christian Medical and Dental Association
 Christian Student Fellowship
 Episcopal University Ministries
 Fellowship of Christian Athletes
 Impact Christian Movement
 11:58 Ministries
 Latter Day Saint Student Organization
 Muslim Students Organization
 Reformed University Fellowship
 Spurgeon Foundation Campus Ministries
 The Well
 Wesley Foundation
 Young Life - QUEST

Social Fraternities and Sororities

Fraternities

Alpha Kappa Lambda
Alpha Phi Alpha
Lambda Chi Alpha
Phi Beta Sigma
Pi Kappa Alpha
Sigma Alpha Epsilon
Sigma Chi
Sigma Nu
Sigma Phi Epsilon
Tau Kappa Epsilon

Sororities

Alpha Delta Pi
Alpha Xi Delta
Delta Sigma Theta
Kappa Delta
Sigma Kappa
Zeta Phi Beta

Community Service

Alpha Phi Omega
Campus Girl Scouts of ETSU
Rotaract
Volunteer ETSU

Special Interest Groups

Campus Greens
Chinese Student and Scholar Association
College Democrats
Cycling Club
East Tennessee Martial Arts
Exhibitionists (promotes Slocumb Art Gallery)
Feminist Majority Leadership Alliance
Gamma/Bacchus
Gospel Ensemble
Mentoring Women in Computer Sciences
Patchwork Players
SCUB's (Students Contributing Unmatched Buc Spirit)
Silent Bucs
Society for the Prevention of Checkmate - Chess Club
Student Advisory Committee - Kingsport
Student Advocacy Committee
Students in Free Enterprise
University Amateur Radio Club

University Sponsored

Admissions Ambassadors
Black Affairs Association
East Tennessean
International Ambassadors
International Student Organization
Orientation Leaders Association
President's Pride
Student Services Board - Kingsport
Buctainment
Venturing Outdoors

Governance

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

- **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 Center for Community Engagement, Learning, and Leadership, D.P. Culp University Center, lower level, phone (423) 439-6828 or e-mail etsufun@etsu.edu.
- **Community Engagement, Learning, and Leadership, Center for** — At the Center for Community Engagement, Learning, and Leadership, students excel in service and leadership both on campus and in the community. The center brings new, fun, and exciting learning opportunities for students through involvement in such programs and activities as student organizations, Greek Life, service-learning, and leadership education.

The mission of the Center for Community Engagement, Learning, and Leadership is to educate through programs, services, advisement, and other experiences necessary to the growth of students and their development of social awareness and civic responsibility.

Located on the lower level of the D.P. Culp Center, the Center is open 8 a.m. - 4:30 p.m. For information contact us at 439-5675. Our web site is located at www.etsu.edu/students/cell/.

- **Placement Service** — Placement services are provided as part of the Office of Career Placement 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 Placement and Internship Services is located in room 323 of the D.P. Culp University Center, 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 Bristol is located at 1227 Volunteer Parkway, Bristol, Tenn. The site offers a variety of undergraduate and graduate classes leading toward selected majors with day, evening, and weekend schedules. The telephone number is (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 certificate in Dental Assisting. The Bachelor of Science degree is available in Allied Health with concentrations in Cardiopulmonary Science and Radiography. The telephone number is (423) 547-4900.

- **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** — As 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 to non-traditional students who need courses off-campus, in the evening, or online. The Master of Arts in Liberal Studies allows adult students to pursue interdisciplinary study in a variety of areas. Regional centers and sites in Bristol and Kingsport 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.

- **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) 439-7842 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.

- **Service-Learning** — Service-Learning is a form of experiential 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 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) 439-5325.

- **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 Nicks Hall, room 160. Please call (423) 439-4225 for further information.

The Dental Hygiene Clinic of the Department of Dental Hygiene 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.

- **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 and recreational life. The Culp University Center provides a wide variety of services, entertainment, and social and recreational activities for the campus community.

In addition to recreational facilities, 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 439-4286.

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

- **University Press** — The University Press is the Tennessee Board of Regents recognized print facility for ETSU and is located on the lower level of Sam Wilson Hall. The Press is a full service print shop with the ability to produce brochures, programs, handbooks, reports, newsletters, fliers, posters as well as other B&W and color publications. UP also provides comprehensive graphic services for faculty, administration, and staff including business cards, letterhead, invitations along with output of graphic files and scanned material. Also located at University Press is a full service quick copy department, ready to handle one copy or high volume. In addition, UP has a satellite quick copy booth in the Culp Center for walk-up customers requiring copies, faxes, spiral binding and transparencies. University Press is open Monday through Friday from 8 a.m. until 4:30 p.m. For more information, call (423) 439-4250.
- **Veterans' Affairs** – Coordinates the delivery of military-related educational benefits of the United States Department of Veterans Affairs (USDVA), Department of Defense and State of Tennessee 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)*] and
- Veterans' Dependents' Postsecondary Educational Assistance Program [Authority: § 49-7-102 *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/. For further information on state programs and other miscellaneous education benefit entitlements not listed above, contact the campus Veterans' Affairs office.

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
Saint Louis, Missouri 63166-6830

Secure e-mail: <https://www.gibill2.va.gov>
888.GI.BILL.1 (442.4551)

VR&E beneficiaries should contact:

Ronald Miles, Counselor/Case Manager
Vocational Rehabilitation & Employment
United States Department of Veterans Affairs
412 North Cedar Bluff Road, Suite 416
Knoxville, Tennessee 37923-3605

E-mail: ronald.miles1@va.gov

Voice: 865.692.0704

Fax: 865.692.0712

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. Beneficiaries are reminded that benefits are paid cumulatively and automatically up through the date of processing of an enrollment certification by the RPO. Thereafter, MGIB-AD and MGIB-SR beneficiaries must verify their continued enrollment at the beginning of the following month and every month thereafter, to receive further payments during the term. 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.
11. Graduate students must provide a copy of their acceptance letter into their degree program.

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 7181.

Selected Reserves Tuition Assistance

Currently members in good standing with the Tennessee Air & Army National Guard and Army Reserve can receive tuition assistance subject to annual limits and available funding in addition to other benefit entitlements. Veterans' Affairs can provide information and guidance on the process and procedures in applying for tuition assistance.

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 vetstu@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-Learning Community; 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 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 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 are 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, which includes water, telephone (except for long-distance calls), data access, and cable TV hookup, are payable on a per semester/monthly basis. Electric bills are payable by the month.

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; exercise room; access gate; and individual leases with no connection fees.

Application Procedure — An application will be mailed to all students approved for admission to the university or an application may be obtained by contacting the Department of Housing and Residence Life. 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 \$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

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 which requires a minimum of 18 credits. 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

*Developmental Studies 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*. Students may obtain a printed copy of their grades by clicking Request Grade Mailer on the grade viewing screen in *GoldLink*. Requests for printed copies of grades must be submitted within two weeks after the end of the term.

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

Class attendance is a contract between faculty and students. 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. ETSU does not specify a fixed number of class absences as university-wide policy, but each academic department has the right to set a maximum number of absences permitted during an academic term, including absences due to illness or participation in university activities. Departmental class absence policies are subject to approval by the dean of the college/school. At the beginning of the course each faculty member must provide a written attendance policy (including laboratory/clinical sessions where applicable) so that all students may be fully informed of their attendance responsibilities and 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 attendance policy is distributed, it is the student's responsibility to ascertain the policy in that course.

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' or 'B' 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 courses 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 or to repeat the course.

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.

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 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.

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 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. 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 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 demonstrate proficiency in a foreign language equivalent to the completion of two years of college-level work.

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 by satisfactorily completing: 1) a minimum of 30 semester credits of study at ETSU; 2) all course requirements for the additional degree and major being pursued; and 3) 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.

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) with the Office of the Registrar, Graduation Office.

Not later than the close of the first week of the final semester, the candidate shall file the following forms: approved major and minor sheets (or major area sheet).

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.

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 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
MUSC 1030 Introduction to Music 3 credits
MUSC 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:

ECON 1050 Economics and Society or	PSYC 1310 Introduction to Psychology 3 credits
ECON 2210 Principles of Economics I 3 credits	SOAA 1020 Introduction to Sociology 3 credits
GEOG 1012 Introduction to Cultural Geography 3 credits	SOAA 1240 Introduction to Cultural Anthropology 3 credits
HDAL 2310 Developmental Lifespan Psychology 3 credits	SOAA 2020 Social Problems 3 credits
PSCI 1110 Political Life 3 credits	SRVL 1020 Introduction to Service-Learning 3 credits
PSCI 1120 Introduction to American Government ... 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 2010 The United States to 1877 3 credits	HIST 2020 The United States Since 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 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
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.

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/student_information/gened/gened.htm.

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

- Upon completion of an A.A. or A.S. degree, 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.
- Students who plan to transfer to TBR universities must take six credits of United States History (of which three credits may be replaced by Tennessee History). 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.

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. A complete listing of such courses is also available at <http://www.etsu.edu/reg/intensive>.

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 (OCI) 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 (UIT) course in the student's major or minor.*

Writing-Intensive Courses

Students must complete a minimum of four writing-intensive (WI) 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:

- transfer students with associate degrees or who complete such degrees after entering ETSU;
- transfer students with 50 or more transferrable semester credits upon entering ETSU; and
- readmission students who earned at least 50 credits at ETSU before 1995 or who re-nter 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) with the Office of the Registrar, Graduation Section.
2. Not later than the close of the first week of the final semester, the candidate must file approved major and minor sheets (or area of concentration sheet).
3. All scholastic deficiencies must be removed at least one week before the date on which the degree is to be conferred.
4. 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.
5. 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.
6. 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	<u>BSAH</u> AHLD RADG CPSC	ALSC	PA
	Master of Science in Allied Health (M.S.A.H.)	<u>Allied Health - MSAH</u>	<u>MSAH</u>		
APPLIED SCIENCE	Bachelor of Arts (B.A.S.)	<u>Applied Science</u> Professional Development	<u>BASD</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> HIST STUO	ARTA	AS
	Bachelor of Fine Arts (B.F.A.)	<u>Art - BFA</u> Studio Art - BFA	<u>ABFA</u> STUO		
	Master of Arts (M.A.)	<u>Art - Master's</u> Art History Studio Art - MA	<u>ARTM</u> HIST STUO		
	Master of Fine Arts (M.F.A.)	<u>Art - MFA</u> Studio Art - MFA	<u>AMFA</u> STUO		
AUDIOLOGY	Doctor of Audiology (Au.D.)	<u>Audiology</u>	<u>AUDI</u>	CDIS	PA
BIOLOGY	Bachelor of Science (B.S.)	Biology Biochemistry *Biology Education 7-12	BIOL BIOC BSBE	BISC	AS
	Master of Science (M.S.)	<u>Biology – Master's</u> Biology Microbiology Paleontology	<u>BIOM</u> BIOL MBIO PALE		
BIOMEDICAL SCIENCES	Master of Science (M.S.)	<u>Biomedical Sciences</u> Anatomy Biochemistry Microbiology Pharmacology Physiology	<u>BMES</u> ANAT BIOC MICR PHAR PHYS	BMED	COM
	Doctor of Philosophy	<u>Biomedical Sciences</u> Anatomy Biochemistry Microbiology Pharmacology Physiology	<u>BMED</u> ANAT BIOC MICR PHAR PHYS	BMED	COM
BIOSTATISTICS	Graduate Certificate (C4)	<u>Biostatistics</u>	<u>BIOS</u>	PUBH	PA

DEGREE PROGRAM MAJORS AND CONCENTRATIONS

MAJOR	DEGREE	ETSU MAJOR NAME CONCENTRATION (CON) NAME	MAJOR & CON	CODES	
				DEPT	COL- LEGE
BUSINESSADMINISTRATION Interdepartmental	Master of Business Administration (B.B.A.) Graduate Certificate (C4)	<u>Master of Business Administration</u> <u>Business Administration Certificate</u>	MBA GCBA	MGMK	BT
CHEMISTRY	Bachelor of Science (B.S.) Master of Science (M.S.)	<u>Chemistry</u> ACS Chemistry Biochemistry Chemistry Chemistry Professional *Chemistry Education 7-12 *Chemistry Education 7-12/SBS <u>Chemistry – Master’s</u>	CHEM CACCS BIOC CHEM CPRO ECHM CHEB CHMM	CHEM	AS
CLINICAL NUTRITION	Master of Science (M.S.)	<u>Clinical Nutrition</u>	CLNU	FACS	BT
CLINICAL PSYCHOLOGY	Doctor of Philosophy (Ph.D.)	<u>Clinical Psychology</u>	PHDC	PSYC	AS
COMMUNICATIVE DISORDERS	Master of Science (M.S.)	<u>Communicative Disorders</u> Speech Pathology *Special Education Speech Path Pre-K-12	CDIS SPCH ECDS	CDIS	PA
COMPUTING	Bachelor of Science (B.S.) Master of Science (M.S.)	<u>Computing</u> Computer Science Information Systems Science Information Technology <u>Computer and Information Sciences</u> Applied Computer Science Information Technology	CISC CSCI INSS ITEC CSCM ACSI ITEC	CSCI	BT
COUNSELING	Master of Arts (M.A.)	<u>Counseling</u> Community Agency Counseling Counseling: Higher Education Elementary & Secondary School Counseling Marriage & Family Therapy	CNSL CACL CSLH SCHL MFAM	HDAL	ED
CRIMINAL JUSTICE AND CRIMINOLOGY	Bachelor of Arts (B.A.) Bachelor of Science (B.S.) Master of Arts (M.A.)	<u>Criminal Justice</u> <u>Criminal Justice</u> Criminal Justice/SBS <u>Criminal Justice - Master’s</u>	CJBA CJCR CJCB CJCM	CJCR	AS
DENTAL HYGIENE	Bachelor of Science in Dental Hygiene (B.S.D.H.)	<u>Dental Hygiene</u>	BSDH	ALSC	PA
DIGITAL MEDIA	Bachelor of Science (B.S.)	<u>Digital Media</u> Digital Animation Digital Interaction Digital Visualization	DIGM ANIM INTN VISU	TECH	BT
E-BUSINESS Interdepartmental	Graduate Certificate (C4)	<u>E-Business</u>	EBUS	CSCI	BT
EARLY CHILDHOOD EDUCATION	Master of Arts (M.A.) Master of Education (M.Ed.)	<u>Early Childhood Education</u> <u>Early Childhood Education</u> Early Childhood (General) Early Childhood (Teaching)	ECED EMED ECHG ECHO	HDAL	ED
EARLY CHILDHOOD DEVELOPMENT	Bachelor of Science (B.S.)	<u>Early Childhood Development</u> Early Childhood Development Early Childhood Development Pre-K-4	ECDV ECDG ECDF	HDAL	ED
ECONOMICS	Bachelor of Arts (B.A.)	<u>Economics - Arts & Sciences</u> *Economics Education 7-12	EOA EECN	EFUS	BT

DEGREE PROGRAM MAJORS AND CONCENTRATIONS

MAJOR	DEGREE	ETSU MAJOR NAME CONCENTRATION (CON) NAME	MAJOR & CON	CODES	
				DEPT	COL- LEGE
ECONOMICS	Bachelor of Business Administration (B.B.A.)	<u>Economics</u> Business Economics General Business	ECON BUEC GNBU	EFUS	BT
ECONOMIC DEVELOPMENT	Graduate Certificate (C4)	<u>Economic Development</u>	<u>EDEV</u>	EFUS	BT
EDUCATIONAL LEADERSHIP	Master of Education (M.Ed.) Education Specialist (Ed.S.) Doctor of Education (Ed.D.)	<u>Educational Leadership - MED</u> *Administrative Endorsement - MED <u>Educational Leadership - EDS</u> Administrative Endorsement - EdS Counselor Leadership School System Leadership Teacher Leadership <u>Educational Leadership - EDD</u> School Leadership Classroom Leadership Postsecondary and Private Sector Leadership Administrative Endorsement - EDD	LMED AMNM LEDS AMNS CLDR SCSL TCHL LEDD SCOL CLSL PPSL AMND	ELPA ELPA	ED 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.) Master of Arts (M.A.)	<u>English</u> *English Education 7-12 <u>English - Master's</u>	ENGL EDUE ENGM	ENGL	AS
ELEMENTARY EDUCATION	Master of Education (M.Ed.) Master of Arts in Teaching (M.A.T.)	<u>Elementary Education - Master's</u> <u>Elementary Education - MAT</u> *Elementary Education 1-8	EEDM MATE EDEL	CUAI	ED
EMERGING TECHNOLOGIES	Graduate Certificate (C4)	<u>Emerging Technologies</u>	<u>ETCG</u>	CSCI	BT
ENGINEERING TECHNOLOGY	Bachelor of Science (B.S.)	<u>Engineering Technology (4 yr.)</u> Biomedical Engineering Technology Construction Technology Electronics Engineering Technology Manufacturing Engineering Technology Industrial Technology Product Development	ENTC BIOM CONS ELEC MANU INDU PDEV	TECH	BT
ENTREPRENEURIAL LEADERSHIP Interdepartmental	Graduate Certificate (C4)	<u>Entrepreneurial Leadership</u>	<u>EPRL</u>	MGMT	BT
ENVIRONMENTAL HEALTH	Bachelor of Science in Environmental Health (B.S.E.H.) Master of Science in Environmental Health (M.S.E.H.) Doctor of Philosophy (Ph.D.)	<u>Environmental Health</u> Environmental Health Practices Occupational Health & Safety ENVH Undecided <u>Environmental Health - MSEH</u> Administrative Program Specialist Program Environmental Health - Doctorate Environmental Health	ENVH ENVI OCCU UDEC MSEH ADMP SPEC EHSC EHSC	ENVH	PA
EPIDEMIOLOGY	Graduate Certificate (C4)	<u>Epidemiology</u>	<u>EPID</u>	PUBH	PA
FAMILY AND CONSUMER SCIENCES	Bachelor of Science (B.S.)	<u>Family and Consumer Sciences</u> Child/Family/Consumer Studies Interior Design Merchandising Nutrition and Foods	FACS CFST INTD MDSE NTFD	FACS	BT

DEGREE PROGRAM MAJORS AND CONCENTRATIONS

MAJOR	DEGREE	ETSU MAJOR NAME CONCENTRATION (CON) NAME	MAJOR & CON	CODES	
				DEPT	COL- LEGE
FAMILY NURSE PRACTITIONER	Graduate Certificate (C4)	<u>Family Nurse Practitioner</u>	<u>FNPR</u>	RONU (NURS)	ROD (NU)
FINANCE	Bachelor of Business Administration (B.B.A.)	<u>Finance</u> Corporate Finance & Investments Banking Real Estate	<u>FNCE</u> <u>CFIN</u> <u>BANK</u> <u>REAL</u>	EFUS	BT
FOREIGN LANGUAGES	Bachelor of Arts (B.A.)	<u>Foreign Languages</u> French German Spanish *French Education 7-12 *German Education 7-12 *Spanish Education 7-12	<u>LANG</u> <u>FREN</u> <u>GERM</u> <u>SPAN</u> <u>EDUF</u> <u>EDUG</u> <u>EDUS</u>	LANG	AS
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> Geography *Geography Education 7-12	<u>GEOG</u> <u>GEOG</u> <u>EDGE</u>	TECH	BT
GEOLOGY	Bachelor of Science (B.S.)	<u>Geology</u>	<u>GLGY</u>	PHYS	AS
GERONTOLOGY	Graduate Certificate (C4)	<u>Gerontology</u>	<u>GERN</u>	PUBH	PA
HEALTH CARE MANAGEMENT Interdisciplinary	Graduate Certificate (C4)	<u>Health Care Management</u> HCM - Business (ETSU) HCM - Nursing (ETSU) HCM - Public Health (ETSU)	<u>HCMC</u> <u>HCMB</u> <u>HCMN</u> <u>HCMP</u>	MGMT NURS PUBH	BT NU PA
HEALTH SCIENCES	Bachelor of Science (B.S.)	<u>Health Sciences</u> Microbiology	<u>HSCI</u> <u>MBIO</u>	HSCI	PA
HISTORY	Bachelor of Arts (B.A.) Bachelor of Science (B.S.) Master of Arts (M.A.)	<u>History</u> *History Education 7-12 <u>History</u> *History Education 7-12 *History Education 7-12/SBS History/SBS <u>History - Master's</u>	<u>HISA</u> <u>EDUH</u> <u>HIST</u> <u>EDUH</u> <u>EDHB</u> <u>HISB</u> <u>HISM</u>	HIST	AS
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>Pre-Education</u> Interdisciplinary Studies Special Education Early Childhood Development Physical Education	<u>ISED</u> <u>PRED</u> <u>ISED</u> <u>SPED</u> <u>ECDV</u> <u>PEDU</u>	CUAI	ED
INTERDISCIPLINARY STUDIES	Bachelor of Science (B.S.)	<u>Interdisciplinary Studies</u>	<u>BSIS</u> (CDST)	RODP (CS)	ROD
KINESIOLOGY AND SPORT SCIENCES	Master of Arts (M.A.)	<u>Kinesiology and Sport Sciences</u> Exercise Physiology and Performance Physical Education K-12 Sport Management	<u>KLSS</u> <u>EXSP</u> <u>PEDU</u> <u>SPTM</u>	KLSS	ED

DEGREE PROGRAM MAJORS AND CONCENTRATIONS

MAJOR	DEGREE	ETSU MAJOR NAME CONCENTRATION (CON) NAME	MAJOR & CON	CODES	
				DEPT	COL- LEGE
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>	MGMT	BT
		Legal Studies	LEGS		
		Logistics/Supply Chain Management	LSCM		
		Human Resources Management	HRMG		
		General Management	GMGT		
		Management Information Systems	MISM		
	No Degree	<u>Pre-Business</u>	<u>PBUS</u>		
		Accounting	ACCT		
		Economics	ECON		
		Finance	FNCE		
MARKETING	Bachelor of Business Administration (B.B.A.)	<u>Marketing</u>	<u>MKTG</u>	MGMT	BT
		Food Marketing	FOOD		
		Integrated Marketing Communications	IMCO		
		Marketing Management	MKMG		
MASS COMMUNICATIONS	Bachelor of Arts (B.A.)	<u>Mass Communications</u>	<u>MCOA</u>	COMM	AS
		Advertising	ADVR		
		Broadcasting	BROA		
		Journalism	JOUR		
		Public Relations	PUBL		
	Bachelor of Science (B.S.)	<u>Mass Communications</u>	<u>MCOM</u>		
		Advertising	ADVR		
		Broadcasting	BROA		
		Journalism	JOUR		
		Public Relations	PUBL		
		Advertising/SBS	ADVB		
		Broadcasting/SBS	BROB		
		Journalism/SBS	JOUB		
Public Relations/SBS	PUBB				
MATHEMATICS	Bachelor of Science (B.S.)	<u>Mathematics</u>	<u>MATH</u>	MATH	AS
		*Mathematics Education 7-12	EDUM		
		*Mathematics Education 7-12/SBS	EDMB		
		Mathematics/SBS	MATB		
MATHEMATICAL SCIENCES	Master of Science (M.S.)	<u>Mathematical Sciences</u>	<u>MASC</u>	MATH	AS
		PreCollegiate Mathematics	MTHP		
MEDICINE	Doctor of Medicine (M.D.) (See College of Medicine Catalog)				
MUSIC	Bachelor of Music (B.M.)	<u>Music - BM</u>	<u>MUSC</u>	MUSC	AS
		Music Education	MUSE		
		Performance	PERF		
		*Music Education Instrumental K-12	MUEI		
		*Music Education Vocal General K-12	MUEV		
		*Music Education-Keyboards/Vocal	MUEK		
NURSING	No Degree	<u>Nursing Baccalaureate - Pre</u>	<u>PBSN</u>	NURS	NU
		<u>Nursing Baccalaureate</u>	<u>NURB</u>	NURS	NU
	Bachelor of Science (B.S.N.)	<u>Nursing - Master's</u>	<u>NURM</u>		
		<u>Nursing</u>	<u>RMSN</u>	RONU	ROD
		Advanced Practice	NADV	(NURS)	(NU)
	Master of Science in Nursing (M.S.N.)	Nursing Administration	NADM		
		Nursing Education	NEDU		
		Nursing Informatics	NINF		
	Master of Science in Nursing (M.S.N.)	<u>Nursing - Doctorate</u>	<u>NDSN</u>	NURS	NU
NURSING - ADVANCED NURSING PRACTICE	Doctor of Nursing (D.S.N.) Graduate Certificate (C4)	<u>Advanced Nursing Practice</u>	<u>NUMC</u>	NURS	NU

DEGREE PROGRAM MAJORS AND CONCENTRATIONS

MAJOR	DEGREE	ETSU MAJOR NAME CONCENTRATION (CON) NAME	MAJOR & CON	CODES	
				DEPT	COL- LEGE
PHARMACY (See College of Pharmacy Catalog)	Doctor of Pharmacy (Pharm.D.)	<u>Pharmacy</u>	<u>PMCY</u>		COP
PHILOSOPHY	Bachelor of Arts (B.A.)	<u>Philosophy</u>	<u>PHIA</u>	PHIL	AS
		Philosophy	PHIL		
	Bachelor of Science (B.S.)	Philosophy and Religious Studies	RELI		
		<u>Philosophy</u>	<u>PHIL</u>		
		Philosophy	PHIL		
		Philosophy and Religious Studies	RELI		
PHYSICAL EDUCATION	Bachelor of Science (B.S.)	<u>Physical Education</u>	<u>PEDU</u>	PEXS	ED
		Physical Education K-12 Exercise Science	PEDU EXER		
PHYSICAL THERAPY	Doctor of Physical Therapy (D.P.T.)	<u>Physical Therapy - DPT</u>	<u>DPTH</u>	PHYT	PA
PHYSICS	Bachelor of Science (B.S.)	<u>Physics</u>	<u>PHYS</u>	PHYS	AS
		*Earth Science Education 7-12	EDGL		
		Physics/SBS	PHYB		
		*Physics Education 7-12	EDPH		
		*Physics Education 7-12/SBS	EDPB		
POLITICAL SCIENCE	Bachelor of Arts (B.A.)	<u>Political Science</u>	<u>PSCA</u>	PSCI	AS
	Bachelor of Science (B.S.)	*Government Education 7-12	EDPS		
		<u>Political Science</u>	<u>PSCI</u>		
		*Government Education 7-12	EDPS		
		*Government Education 7-12/SBS	EPSB		
PSYCHOLOGY	Bachelor of Arts (B.A.)	<u>Psychology</u>	<u>PSYA</u>	PSYC	AS
	Bachelor of Science (B.S.)	Behavioral Neuroscience	NEUR		
Child Psychology		CHLD			
Clinical Psychology		CLIN			
Cognitive Science		COGN			
General Psychology		PSYC			
*Psychology Education 7-12		EDPY			
<u>Psychology</u>		<u>PSYC</u>			
Behavioral Neuroscience		NEUR			
Child Psychology		CHLD			
Clinical Psychology		CLIN			
Cognitive Science		COGN			
General Psychology		PSYC			
Behavioral Neuroscience / SBS		NEUS			
Child Psychology / SBS		CHLS			
Clinical Psychology / SBS		CLIS			
Cognitive Psychology / SBS		COGS			
*Psychology Education 7-12		EDPY			
*Psychology Education 7-12/SBS	EDYB				
Psychology/SBS	PSYB				
Master of Arts (M.A.)	<u>Psychology - Master's</u>	<u>PSYM</u>			
	Clinical Psychology	CLIN			
	General Psychology	GENL			
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>	<u>BSPS</u>	RODP	ROD (CS)
		Information Technology	INFT(CDST)		
		Organizational Leadership	ORGL		
	Master of Professional Studies (M.P.S.)	<u>Professional Studies - MPS</u>	<u>PRST</u>	ROCS	ROD (CDST) (CS)
		Strategic Leadership	MPSL		

DEGREE PROGRAM MAJORS AND CONCENTRATIONS

MAJOR	DEGREE	ETSU MAJOR NAME CONCENTRATION (CON) NAME	MAJOR & CON	CODES			
				DEPT	COL- LEGE		
PUBLIC ADMINISTRATION	Master of City Management (M.C.M.) Master of Public Administration (M.P.A.)	<u>Public Administration - MCM</u>	<u>MCMP</u>	MGMK	BT		
		City Management	CMGT				
		<u>Public Administration – MPA</u>	<u>PADM</u>				
		Not-for-Profit Administration Planning and Development Public Financial Management	NFPA PLDV PFMT				
PUBLIC HEALTH	Bachelor of Science (B.S.)	<u>Public Health - BS</u>	<u>PHBS</u>	PUBH	PA		
		Community Health	COMM				
		Health Administration	ADMH				
		Health Education	PAED				
	Master of Public Health (M.P.H.)	<u>Public Health - MPH</u>	<u>PUBH</u>	BIOS PHED PHEP ENPH PHAD DRPH CHSC			
		Biostatistics	BIOS				
		Community Health	PHED				
		Epidemiology	PHEP				
		Environmental Health	ENPH				
		Health Services Administration	PHAD				
	Doctor of Public Health (DrPH)	<u>Public Health - Doctorate</u>	<u>DRPH</u>	CHSC			
		Community Health - DRPH	CHSC				
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		
		Classroom Technology	CTEC				
	Master of Arts in Teaching (M.A.T.)	<u>Secondary Education - MAT</u>	<u>SMAT</u>			KELM SECO	
		*K-12 Education *7-12 Education	KELM SECO				
SPEECH	Bachelor of Arts (B.A.)	<u>Speech</u>	<u>SPCA</u>	COMM	AS		
		Speech	SPEE				
		Theatre	THEA				
		*Speech Communication 7-12	EDSP				
		*Theatre Education K-12	EDTH				
		<u>Speech</u>	<u>SPCH</u>				
	Bachelor of Science (B.S.)	Speech	SPEE				
		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				
		Theatre / SBS	THEB				
		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>SPMD</u>				
	Advanced Practitioner		SEAP				
	Early Childhood Special Education Special Education – MED		SEEC SPED				
SPORT AND LEISURE MANAGEMENT	Bachelor of Science (B.S.)	<u>Sport and Leisure Management</u>	<u>SALM</u>	PEXS	ED		
		Park and Recreation Management	PARM				
		Sport Management	SPMT				
		<u>Social Work</u>	<u>SOWK</u>				
SOCIAL WORK	Bachelor of Science in Social Work (B.S.W.)	*School Social Worker	EDSW	SOWK	AS		
		*School Social Worker / SBS	ESWB				
		<u>Social Work – Master's</u>	<u>MSWK</u>				
	Master of Science in Social Work (M.S.W.)	Advanced Standing	AMSW				
		Traditional Entry	TMSW				

DEGREE PROGRAM MAJORS AND CONCENTRATIONS

MAJOR	DEGREE	ETSU MAJOR NAME CONCENTRATION (CON) NAME	MAJOR & CON	CODES	
				DEPT	COL- LEGE
SOCIOLOGY	Bachelor of Arts (B.A.)	<u>Sociology</u> *Sociology Education 7-12	SOCA EDSO	SOAA	AS
	Bachelor of Science (B.S.)	<u>Sociology</u> *Sociology Education 7-12 *Sociology Education 7-12 / SBS Sociology / SBS	SOCI EDSO ESCB SOCB		
	Master of Arts (M.A.)	<u>Sociology - Master's</u> Applied Sociology General Sociology	SOCM APPL GENE		
SURVEYING AND MAPPING SCIENCE	Bachelor of Science (B.S.)	<u>Surveying and Mapping Science</u>	SUVM	TECH	BT
TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES	Graduate Certificate (C4)	<u>Teaching English to Speakers of Other Languages</u>	TESO	ENGL	AS
TECHNOLOGY	Master of Science (M.S.)	<u>Technology - Master's</u> Digital Media Engineering Technology Geoscience	TECM DIGM ENGT GEOS	TECH	BT
URBAN PLANNING	Graduate Certificate (C4)	<u>Urban Planning</u>	URPL	EFUS	BT
WOMEN'S STUDIES	Bachelor of Arts (B.A.)	<u>Women's Studies</u>	WMST	COMM	AS

ACADEMIC MINORS

African/African-American Studies	AFAM	HIST	AS
Appalachian Studies	APST	SOAA	AS
Anthropology	ANTH	SOAA	AS
Applied Spanish	SPNA	LANG	AS
Bluegrass, Old Time, and Country Music	BLUE	MUSC	AS
Coaching	COCH	PEXS	ED
Communicative Disorders	CDIS	CDIS	PA
Emergency/Disaster Response Management	EDRM	ENVH	PA
Environmental Studies	ENVS	PSYC	AS
Film Studies	FILM	ENGL	AS
General Business	GBUS	EFUS	BT
Geology	GEOL	PHYS	AS
Human Development and Learning	HDAL	HDAL	ED
International Studies	INTL	PSCI	AS
Japanese	JAPA	LANG	AS
Leadership Studies	LDRS	MGMK	BT
Legal Studies	LGST	PSCI	AS
Leisure Services	RECR	PEXS	ED
Military Science	MSCI	TECH	BT
Sport Management	SMGT	PEXS	ED
Women's Studies	WMST	COMM	AS
Safety	SFTY	ENVH	PA
Teacher Education	TEDU	CUAI	ED
Technical Writing	TECW	ENGL	AS
Urban and Regional Studies	URBS	EFUS	BT

PRE-PROFESSIONAL PROGRAMS

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

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

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 website (<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/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 others 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 & Humanities
 - Department of Physics, Astronomy & Geology
 - Department of Psychology
- College of Education:
 - Teacher Education Program
- College of Public and Allied Health:
 - Department of Environmental Health

For more information about these programs, 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 the Office of University Honors Programs, Interim Director, Professor Marcia Songer, PO Box 70294, Johnson City, TN 37614-1701; (423) 439-6456; email songerm@etsu.edu; or the Honors College, PO Box 70589, Johnson City, TN 37614-1701; (423) 439-6076; or visit <http://www.etsu.edu/honors/university/discipline>.

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 expected 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, letters of recommendation, extracurricular activities, high school scholastic honors, 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 the Office of University Honors Programs, Interim Director, Professor Marcia Songer, PO Box 70294, Johnson City, TN 37614-1701; (423) 439-6456; email songerm@etsu.edu; or the Honors College, 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.

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

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 the Office of University Honors Programs, Interim Director, Professor Marcia Songer, PO Box 70294, Johnson City, TN 37614-1701; (423) 439-6456; email songerm@etsu.edu; or the Honors College, 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 Art and Design; Biological Sciences; Chemistry; Communication; Criminal Justice and Criminology; English; Foreign Languages; History; Mathematics; Music; Philosophy and Humanities; Physics, Astronomy and Geology; Political Science; Psychology; Social Work; and Sociology and Anthropology, as well as the Center for Appalachian Studies and Services and the Center of Excellence in Paleontology. Interdisciplinary studies are also offered in African and African American Studies; Environmental Studies; Film Studies; International Studies; and Women's Studies.

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.

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.

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. The College of Arts and Sciences' Office of Medical Professions Advisement assists students preparing for careers in the health professions, such as chiropractic, medicine, optometry, osteopathic medicine, dentistry, physician assistant, podiatric medicine, and veterinary medicine.

Students considering careers in the health professions should consult their advisor before enrolling at ETSU. All preparatory curricula are specific and structured, and a failure to register for appropriate courses during the first year may result in the loss of an academic year of progress. The health professions advisor provides assistance regarding the skills for successful competition in undergraduate and professional schools, standardized test procedures, alternate career opportunities, interview success, timing of coursework and entrance tests, and procedures for application to the medical profession schools. Inquiries concerning health professions careers should be directed to the Office of Medical Professions Advisement, P.O. Box 70592, East Tennessee State University, Johnson City, TN 37614; telephone (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.

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
<i>Foreign Languages</i>	Proficiency in a single language equivalent to two years at the college-level	None	None
<i>Non-U.S. History</i>	3 hours	None	None
<i>Mathematics</i>	Specified General Education Core: MATH 1530, MATH 1840, or MATH 1910	Specified General Education Core as minimum 4 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
<i>Natural Sciences</i>	General Education Core	In addition to General Education Core: (8) Eight hours in a SINGLE laboratory science from the following list*: (1) ASTR 1010 and 1020 (labs included) (2) BIOL 1010/11 and 1020/21 (3) BIOL 1110/11 and 1120/21 or BIOL 1130/31 (labs included) (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 (labs included) *Higher level laboratory courses in these departments also meet this requirement.	Specified General Education Core: (8) Eight hours in a SINGLE laboratory science from the following list*: (1) ASTR 1010 and 1020 (labs included) (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 (labs included) *Higher level laboratory courses in these departments also meet this requirement.
<i>Social and Behavioral Sciences</i>	General Education Core departmental requirements	General Education Core departmental requirements	In addition to General Education (4) Four courses; one from each of the following areas: (1) <i>Social Statistics</i> : (a) PSYC 3100 (b) CJCR 3000 (c) SOAA 3350 (2) <i>Reasoning</i> : (a) PHIL 2030 (b) SPCH 2320 (3) <i>Research Design</i> (a) PSYC 3200/01 (b) CJCR 2000 (c) SOAA 3210 or 4627 (d) GEOG 2310 or 4807 (e) SPCH 3330 (4) <i>Computing Skills</i> (a) CJCR 3444 (b) PSYC 3444 (c) SOAA 3444

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 6 Credit Hours		
ENGL 4032	African Literature	3
ENGL 3400	African American Literature	3
Geography 3 Credit Hours		
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		
SOAA 3110	Minorities	3
SOAA 4957	Special Topics: Any topic related to Africa or African Americans	3

Appalachian Studies Minor (APST)

Box 70556

423-439-4748 or 7865

Dr. Richard Blaustein

113 Rogers-Stout Hall

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. Students are required to take courses in at least two different departments. 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 six credit hours and 12 credit hours of guided electives, which allow students to focus on their personal interests in Appalachian issues. Students are required to select the guided electives in consultation with the Appalachian Studies advisor and are encouraged to design a thematic course grouping that suits their personal interests (sample groupings are listed below). Students wishing to explore the Scottish and Irish heritage of the Appalachian region should consult with Dr. Tess Lloyd, Department of English, and enroll in Appalachian, Scottish, and Irish Studies at ETSU (APST 4237/5237) and Appalachian, Scottish, and Irish Studies in Scotland (APST 4337/5337), which are offered for three or six hours credit and can be included in the guided electives.

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

Guided Electives 12 Credit Hours	
Suggested electives and possible thematic course groupings are listed below. In addition to these regularly offered courses, students are encouraged to consult the schedule of classes for topical and special studies courses that have an Appalachian focus.	

Regional History and Culture

APST 3530	Religion in Appalachia	3
APST 4237	Scots-Irish in Appalachia	3-6
APST 4337	Appalachia in Scotland	3-6
APST 4907	Appalachian Foodways	3
ENGL 3650	American Folklore	3
ENGL 3065	Southern Appalachian Literature	3
ENGL 4137	Dialectology	3
GEOG 4077	Geography of Southern Appalachia	3
HIST 2030	History of Tennessee	3
HIST 4147	The Old South, 1607-1860	3
HIST 4157	The South Since 1865	3
HIST 4167	History of Southern Appalachia	3
SOWK 2400	Social Institutions and Appalachian Culture	3

Regional Politics and Community Development

HIST 4167	History of Southern Appalachia	3
HIST 2030	History of Tennessee	3
PSCI 3060	Southern Politics	3
PSCI 3710	State and Local Government	3
PSCI 4160	Idea of the City	3
PSCI 4450	Appalachian Politics	3
PSCI 4820	Politics of Development and Change	3
SOWK 2400	Social Institutions and Appalachian Culture	3

Regional Music and Folk Culture

APST 4907	Appalachian Foodways	3
BLUE	All bluegrass courses can be used as	1-3
electives in the APST minor		
ENGL 3650	American Folklore	3
READ 4147	Basic Storytelling	3
SOAA 2040	Folk Culture in the Modern World	3
SOAA 4357	Mass Communications and Popular Culture	3
SOAA 4627	Ethnographic Fieldwork Techniques	3

Regional Environment and Ecology

BIOL	4247	Appalachian Flora	3
BIOL	4257	Appalachian Fauna	3
ENGL	3050	Literature and the Environment	3
		(when the topic is appropriate)	
GEOG	4077	Geography of Southern Appalachia	3
HIST	4167	History of Southern Appalachia	3
PSCI	3710	State and Local Government	3

Regional Arts and Crafts

ARTA	2071	or	
ARTA	3071	Weaving	3
ARTA	3380	Vegetable Dyeing	3
ARTA	3091	or	
ARTA	3092	Ceramics	3
HIST	4167	History of Southern Appalachia	3
ENGL	3065	Southern Appalachian Literature	3
SOAA	4357	Mass Communication & Popular Culture	3

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

Box 70708

Phone: (423) 439-4247

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

Statement of Purpose

The Department of Art and Design has the responsibility to provide education of high quality in the professional art and in art-related disciplines. Our mission is to prepare and produce students who are equipped to function capably in their chosen area of the visual arts.

Undergraduate degrees that may be earned include: 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: 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 B.F.A. 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 B.F.A. major. No minor is required.

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

Students in the B.F.A. 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 B.F.A. exhibit.

**Bachelor of Fine Arts Degree (B.F.A.)
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	3
ARTH 2020	Art History Survey II	3

*Satisfies TBR General Education Core Requirement.

B.F.A. 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	3
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

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

Second Semester		Credit Hours
Humanities/Fine Arts Elective		3
3000-Level Studio Courses		9
Social/Behavioral Sciences		3
Semester Total		15

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 B.F.A. program requires a total of approximately 120 credit hours.

It is essential that students work closely with their art advisor 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 department for assignment of appropriate advisor. It is essential that all students work closely with their advisor in selecting classes and the minor.

Students studying for a Bachelor of Arts (B.A.) degree shall be required to demonstrate proficiency in a foreign language equivalent to the

completion of two years of college-level work. 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*		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* 9 Credit Hours

Foreign Language	6
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	10-16 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 advisor 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 Arts 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* 9 Credit Hours

Foreign Language	6
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 or 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* 9 Credit Hours

	Foreign Language	6
	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
Humanities Elective	3
Semester Total	15
Second Semester	Credit Hours
ARTH 4067 Twentieth Art	3
or	
ARTH 4077 Contemporary Art	
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 should consult one of the following advisors when planning their curricula:

- Biology Major Hugh Miller (Standard or Concentration Tracks)
- Secondary Biology Ed. Tom Laughlin
- Biology Honors Program Tom Laughlin
- Biochemistry Concentration Dhirendra Kumar
- Pre-professional students J. Leonard Robertson
- General Advising Hugh Miller

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.*

B.S. Degree Requirements 3-4 Credit Hours

- CHEM 1110/11 General Chemistry Lecture/Lab *
- CHEM 1120/21 General Chemistry II Lecture/Lab *
- MATH 1530 Probability & Statistics or 3
- MATH 1920 Calculus II 4

** See General Education Core Requirements for Biology Majors listed above.*

Biology Major Requirements

Standard Track	54-56 Credit Hours
Concentration Track	68-70 Credit Hours
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
PHYS 2010/11 General Physics I - Noncalculus or	
PHYS 2020/21 General Physics II - Noncalculus or	8
PHYS 2110/20 Technical Physics - Calculus based	10
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 Advanced Biology Requirements (see below)	15-18
BIOL Advanced Electives, Standard Track (see below)	3-6
BIOL Advanced Electives, Concent. Track (see below)	17-20

** See General Education Core Requirements for Biology Majors listed above.*

Advanced Biology Requirements 15-18 Credit Hours

Four courses at the 3000 or 4000 level selected as one from each of the four areas listed below:

Molecular Level:

- 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

Organismal Level:

- BIOL 3220 Comparative Anatomy 4
- BIOL 3230 Vertebrate Embryology 4
- BIOL 3260 Animal Physiology 4
- BIOL 4267 Plant Development 4
- BIOL 4277 Neurobiology 4
- BIOL 4357 Ethology 3
- BIOL 4767 Plant Physiology 4

Population Level:

- BIOL 3350 Ecology 4
- BIOL 4337 Plant Systematics 4
- BIOL 4360 Evolution 3
- BIOL 4737 Conservation Biology 4
- BIOL 4747 Population Genetics 4
- BIOL 4867 Marine Biology 4

Biodiversity:

- BIOL 3410 Vertebrate Zoology 4
- BIOL 3420 Plant Biology 4
- BIOL 3460 Invertebrate Zoology 4
- BIOL 3480 General Entomology 4
- BIOL 4450 Bryophytes, Ferns, and Seed Plants 4
- HSCI 3320/21 General Microbiology Lecture/Lab 4

Advanced Biology Electives:

The remaining required hours in biology should be selected to reflect the student's interest and degree program, as follows:

Biology Major, Standard Track.

Students pursuing the Standard Track for a major in Biology (requires a minor in another discipline) may select **3-6 credit hours of electives in Biology**, producing a total of 36 credit hours in Biology.

- Biology Electives for Standard Track 3-6 Credit Hours
- Requirements for minor in other 18 Credit Hours
- discipline (Biology Major)
- General Electives 0-3 Credit Hours
- Total Hours Required for Degree 120 Credit Hours

Biology Major, Concentration Track.

Students pursuing the Concentration Track for a major in Biology (requires a minor in another discipline) may select **17-20 credit hours of electives in Biology**, producing a total of 50 credit hours in Biology.

- Biology Electives for Concent. Track ... 17-20 Credit Hours**
- General Electives 4-7 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 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	5
CHEM 2010/11 Organic Chemistry Lecture I/Lab	4
PHYS 2010/11 General Physics Lecture I/Lab	3
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
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.

Bachelor of Science Degree Requirements 4 Credit Hours

CHEM 1110/11	General Chemistry I Lecture/Lab	*
CHEM 1120/21	General Chemistry II Lecture/Lab	*
MATH 1920	Calculus II	4

* See General Education Core Requirements for Biology Majors listed above.

Biochemistry Concent. Requirements 65-68 Credit Hours

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
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
BIOL 1110/11	Biology for Sci. Maj. I Lecture/Lab	4
BIOL 1120/21	Biology for Sci. Maj. II Lecture/Lab	4
BIOL 1130/31	Biology for Sci. Maj. III Lecture/Lab	4
BIOL 3100	General Genetics	3
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

*Satisfies TBR General Education Core Requirement.

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

Advanced Biology Requirements 6-8 Credit Hours

Select at least one (1) course from two (2) of the following Advanced Biology areas (Organismal, Population, or Biodiversity):

Organismal Level:

BIOL 3220	Comparative Anatomy	4
BIOL 3230	Vertebrate Embryology	4
BIOL 3260	Animal Physiology	4
BIOL 4267	Plant Development	4
BIOL 4277	Neurobiology	4
BIOL 4357	Ethology	3
BIOL 4767	Plant Physiology	4

Population Level:

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

Biodiversity:

BIOL 3410	Vertebrate Zoology	4
BIOL 3420	Plant Biology	4
BIOL 3460	Invertebrate Zoology	4
BIOL 3480	General Entomology	4
BIOL 4450	Bryophytes, Ferns, and Seed Plants	4
BIOL 4477	Ornithology	4
HSCI 3320/21	General Microbiology Lecture/Lab	4

General Elective 6-9 Credit Hours
Total Hours Required for Degree 120 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, Molecular Organization of Cells	3
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 Chem	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 (Tom Laughlin) and professional advisors in the Office of Student Services, 321 Warf-Pickel, College of Education (Jack Rhoton, Curriculum & Instruction, and Michele Banner, Office of Student Services, 321 Warf-Pickel). 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.

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		9

The Advanced Biology Elective Courses may be selected to reflect the student's interests.

Credit for the following courses will not apply toward a major or minor in biology.

BIOL 1000	Academic Advantage	2
BIOL 1010/11	Biology I Lecture/Lab	4
BIOL 1020/21	Biology II Lecture/Lab	4

**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
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:

- (a) Individual instruction on at least one (1) instrument during each semester of band.
- (b) Vocalists must take bluegrass Harmony Part Singing at their earliest opportunity.
- (c) 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 field. 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 2220/2	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 General Physics Non-Calculus II	
PHYS 2020/21	General Physics Non-Calculus I or General Physics Non-Calculus II	
PHYS 2110	Technical Physics I - Calculus Based and Technical Physics II - Calculus 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 Chemistry Professional concentration (including all three advanced integrated labs, 4611, 4621, and 4631 may be taken in any order) and Biochemistry, BIOL 4147 or 4167, (note these have a prerequisite of BIOL 1110/11). In addition, three credit hours must be selected from the list below. Physical Chemistry is recommended or required as a prerequisite to these courses:

CHEM 4530	Advanced Organic	3
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 4530	Advanced Organic Chemistry	3
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 Macromolecules 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 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 (mcintosc@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.

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 Lab-Analytical 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

* Satisfies TBR General Education Core Requirement.

** These labs may be taken in any order, two of three required.

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 2020/21	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	
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 Macromolecules 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	120	

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) eight hours; plus an 18-hour selection of basic courses offered by the Department of Chemistry (other than 1000 or 1030).

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 a B.A./B.S. with a major in two speech concentrations — speech communication and theatre. A sequence in teaching is offered for both division concentrations.

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, 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.

Sequence	Advisor
Advertising	Steve Marshall, D. J. Jessee
Broadcasting	Tom Headley, Tammy Hayes, Candy Bryant
Journalism	Jack Mooney
Public Relations	John King
Speech	Charles Roberts
Theatre	Bobby Funk
Undecided	Dan Brown

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)
 (4) Microcomputer Skills
 *Satisfies TBR General Education Core Requirement.

B.A. Requirements 9-10 Credit Hours

Select MATH 1530, 1840, or 1910 3-4
 Two courses of a single language at or above the 2000 level ... 6
 1 course of Non-U.S. History 3

Minor 18-27 Credit Hours

Electives 1-20 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	
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 3

JOUR 3120	Opinion Writing	
JOUR 3350	Advanced Photojournalism	
JOUR 4080	Journalism Internship	
JOUR 4957	Topics in Journalism	

One of the following conceptual courses 3

MCOM 3070	Mass Media and Society	
MCOM 4040	Seminar in Mass Communications	

Minor — Journalism Concentration 24 Credit Hours

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 6

JOUR 3120	Opinion Writing	
JOUR 3130	In-Depth Reporting	
JOUR 3301	Photojournalism	
JOUR 4107	Reporting Public Affairs	
JOUR 4957	Topics in Journalism	

Public Relations Concentration 42 Credit Hours

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
SPCH 4346	Business & Professional Communication	3

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.*

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	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)
- (4) Microcomputer Skills

**Satisfies TBR General Education Core Requirement.*

B.A. Requirements 9 Credit Hours

Select MATH 1530, 1840, or 1910	*
2 courses of a single language at or above the 2000 level	6
1 course of Non-U.S. History	3

Minor Requirements 18-26 Credit Hours

Electives 5-17 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
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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 3380	Dynamics of Group Leadership	3
SPCH 3346	Speaking for Social Change	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

Eight electives from the following list 24

(At least 18 hours must be at the 3000 or 4000 level.)

SPCH 2300	Public Speaking	3
SPCH 2320	Argumentation and Debate	3
SPCH 3310	Intrapersonal Communication	3
SPCH 3350	Interpersonal Communication	3
SPCH 3390	Persuasion	3
SPCH 4317	Rhetoric and Public Address	3
SPCH 4357	Communication in Organizations	3
SPCH 4366	Communication Ethics	3
SPCH 4380	Speech Internship	3
SPCH 4957	Topics in Speech	3
Approved Speech elective		3

Theatre Concentration

Theatre Concentration 36 Credit Hours

THEA 1530	Stagecraft II	3
THEA 2510	Acting I	3
THEA 2530	Dramatic Structure	3
THEA 3520	Theatre History I	3
THEA 3525	Theatre History II	3

One credit hour chosen from: 1

THEA 3515	Theatre Movement	
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Six credit hours chosen from: 6

THEA 3330	Scenic Design	
THEA 3335	Lighting Design	
THEA 3500	Voice and Diction	
THEA 3530	Play Direction	

Three credit hours chosen from: 3

THEA 2525	Makeup	
THEA 3510	Acting II	
THEA 4637	Theatre Management	

Five credit hours chosen from: 5

THEA 1800	Theatre Laboratory	
THEA 2605	Theatre Practicum	
THEA 2800	Theatre Laboratory	
THEA 3800	Theatre Laboratory	
THEA 4607	Theatre Practicum	
THEA 4800	Theatre Laboratory	

Three credit hours chosen from: 3

- THEA 3400 Acting for the Camera
- THEA 3512 The Audition Process
- THEA 4527 Advanced Scenographic Design
- THEA 4547 Dramatic Theory and Criticism
- THEA 4857 Period Acting Styles

THEA Theatre electives approved by advisor 3

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.

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
- READ 4147 Basic Storytelling

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.

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 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

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 have 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. Stephen Brown, Director
 Criminal Justice Honors-in-Discipline Program
 Department of Criminal Justice and Criminology
 Box 70555
 Johnson City, TN 37614
 (423) 439-4388

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)
 (4) Microcomputer Skills

* Satisfies TBR General Education Core Requirement.

** Areas 1, 3, and 4 satisfied in the major.

B.A. Requirements 12-13 Credit Hours

Select MATH 1530, 1840, or 1910 3-4
 Two courses of a single language at or above the 2000 level 6
 Non U.S. History 3

Minor 18-26 Credit Hours

Electives 0-16 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.
 (Concentration for Social and Behavioral Sciences) Majors**

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
CJCR 4680 Issues in CJ Policy & Criminology Research	3
Electives, Major and Minor courses	6
Oral/Written/Technology Intensive	6
Semester Total	15

Senior Year

First Semester	Credit Hours
Electives, Major and Minor courses	15
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
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 understand the human condition as it emerges in cultural contexts, examine ideas, and think and write clearly 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* 9 Credit Hours

Foreign Language	6
Non-United States History	3

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

English Major Requirements 36 Credit Hours

ENGL 2110 or 2120 and 2210 or 2220 (3 hours satisfies Humanities/Literature)	6
(or Honors Equivalent)	
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.

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, Prof. Michael Cody, at (423) 439-6676. or codym@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 (ENVH)

Box 70683

Phone: (423) 439-6679

Dr. Kevin O'Donnell, Director

313 Burleson 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
- ENVH 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 1010/11 Biology/Lab for Non-Majors or 4
- BIOL 1110/11 Biology/Lab for Biology Majors 4
- BIOL 4047 Ecology Field Trip 3
- BIOL 4247 Flora of the Southern Appalachians 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
- GEOG 2040 Earth Systems and Global Change 4
- GEOG 2050 Earth Resources 3
- GEOG 3481 Environmental Geology 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
- GEOG 2060 Introduction to Natural Hazards and Society 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
- PSYC 3500 Ecopsychology: The Nature-Human Relationship ... 3
- SALM 3110 Interpretation of Cultural & Natural Resources 3
- SALM 3130 Natural Resource Management 3
- SALM 3150 Regional Outdoor Leadership and Service 3
- SOAA 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) 439-5897

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 an awareness of 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 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.

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.

Laboratory Requirements – As part of the requirements for course credit for the 1000 and 2000 level of foreign language study, students must complete online language laboratory work as assigned by instructor.

Foreign Students – Foreign students whose native language is not English will have to take six hours of 3000 or 4000 level coursework in the native speaker's language in order to fulfill the B.A. foreign language requirement or they may choose to complete two years of college-level work in another single foreign language other than their native language.

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.

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 Oral Exit Interview.

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 3-4 Credit Hours

Select MATH 1530, 1840, or 1910	3-4
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Major 33 Credit Hours

Minor 18-27 Credit Hours

Electives 16-25 Credit Hours

Total Hours Required for Degree 120 Credit Hours

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 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	Introduction 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	
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	15
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 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
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 6 Credit Hours

Select MATH 1530, 1840, or 1910	*
Two courses of a single language at or above the 2000 level	6

Minor 18-27 Credit Hours

Electives 16-25 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)	
(4) Microcomputer Skills	

*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.

**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
MGMT3310*	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. Sam W. McKinstry, Department of Political Science, 301-A Rogers-Stout Hall, (423) 439-6632, e-mail: mckinsts@etsu.edu.

**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 Roessel 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

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	
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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	4-5
BIOL 1110/11	Biology for Science Majors	3
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	4-5
BIOL 1120/21	Biology for Science Majors	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		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	4-5
BIOL 1110/11	Biology for Science Majors	3
Communication: Oral Communication		3
Social/Behavioral Sciences		3
Semester Total		16-17

Second Semester		Credit Hours
MATH 4287	Applications of Statistics	3
PHYS 2120	Technical Physics II or	4-5
BIOL 1120/21	Biology for Science Majors	3
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	4-5
BIOL 1110/11	Biology for Science Majors	3
Communication: Oral Communication		3
Social/Behavioral 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	4-5
BIOL 1120/21	Biology for Science Majors	3
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	4-5
BIOL 1110/11	Biology for Science Majors	3
Communication: Oral Communication		3
Semester Total		16-17

Second Semester		Credit Hours
PHYS 2120	Technical Physics II or	4-5
BIOL 1120/21	Biology for Science Majors	3
Social/Behavioral 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 (B.M.) 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 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 Blackboard.

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.

**Bachelor of Music (B.M.)
Music Major (MUSC)**

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 Student Handbook on Blackboard.

Specific information about the recital approval process is also available in the Student Handbook on Blackboard.

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 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.

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 (B.M.)

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

Two (2) semesters of French, German, or Italian; not to be the same language studied in high school.

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:

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 other hours from PHIL courses or RELI 3230 15

B.A. Requirements 9 Credit Hours

Select MATH 1530, 1820, 1840, or 1910	*
Two courses of a single language at or above the 2000 level	6
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 12 Credit Hours

MATH 1530	*
Single Laboratory Science	*
Research	12

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:

PHIL 3010	History of Ancient Philosophy	3
PHIL 3030	History of Modern Philosophy	3
	At least one course in western religions	3
	At least one 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
SOAA 3800	Religion, Society, and Culture	3
HIST 3920	History of Islam	3

B.A. Requirements 9 Credit Hours

Select MATH 1530, 1820, 1840, or 1910	*
Two courses of a single language at or above the 2000 level	6
One course of Non-United States History	3

Minor Requirements 18-27 Credit Hours

Electives 13-23 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 Hours Required For Degree 120 Credit Hours

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)	
(4) Microcomputer Skills	

*Satisfies TBR General Education Core Requirement.

Minor 18-27 Credit Hours

Electives 13-22 Credit Hours

Total Hours Required for Degree 120 Credit Hours

PHILOSOPHY MINOR

Philosophy Minor 18 Credit Hours

A minimum of 18 hours in philosophy (12 must be upper division). Religious studies courses do not count toward a minor in philosophy with the exception of 3230 and 4220. Students should plan their minor in consultation with an advisor from the department of Philosophy and Humanities/Fine Arts.

RELIGIOUS STUDIES MINOR

Religious Studies Minor 21 Credit Hours

A minimum of 21 hours is required, including:		
RELI 2210	Intro to the Study of Religion	3
	At least one course in western religions	3
	At least one 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 approval of the department. The following courses from other departments or other previously approved courses may be included.

ENGL/RELI 3280	Mythology	3
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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.

HUMANITIES MINOR

Humanities/Fine Arts 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 Physics, Astronomy, and Geology
(PHYS)(ASTR)(GEOL)**

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 as, for example, 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	34 Credit Hours
PHYS 2110/20 Tech. Physics-Calc. based	10
PHYS 3010 Mechanics	4
PHYS 3710 Electricity and Magnetism	4

At least one of the advanced courses:

PHYS 4117 Thermal and Statistical Physics or	
PHYS 4617 Quantum Physics or	
PHYS 4717 Electromagnetic Theory	4

Physics electives chosen from:	12
ASTR 3415 Astrophysics	3
ASTR 3970 Variable Stars	2
PHYS 3210 Optics	4
PHYS 3310 Electrical Measurements	4
PHYS 3510 Introduction to Biophysics	3
PHYS 3610 Introduction to Atomic and	3
Nuclear Physics	
PHYS 4007/5007 Computational Physics	3
PHYS 4117 Thermal and Statistical Physics	4
PHYS 4617 Quantum Physics	4
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

B.S. Requirements

* See departmental requirements for Math; PHYS 2110/2120 meets 8 hours of single laboratory science requirement.

Minor	18-27 Credit Hours
Electives	17-26 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 3710 Electricity and Magnetism	4
MATH 2120 Differential Equations	3
Minor requirement	3
Semester Total	14
Second Semester	Credit Hours
Physics electives	6
Minor Requirement	3
Humanities	3
Electives	3
Semester Total	15

Senior Year

First Semester	Credit Hours
Minor requirement	6
Physics electives	3
Advanced Physics Course	4
Free Electives	3
Semester Total	16
Second Semester	Credit Hours
Minor requirement	3
Electives	9
Humanities/Fine Arts Elective	3
Semester Total	15
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, Astronomy, and Geology 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 3010, 3110, 3210, 3310, 3510, 3610, 3710,	
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 Department of Physics, Astronomy, and Geology 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.

**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.

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.

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
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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 I/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 1120/21	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

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 Political Science (PSCI)

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 critically analyze and evaluate 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.), or the Bachelor of Science (B.S.), or the Bachelor of Science with a social and behavioral sciences concentration (B.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 credit
either	
SOAA 3350 Social Statistics or	
SOAA 3444 Data Analysis	3

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 Department's offerings

B.A. Requirements	9 Credit Hours
Select MATH 1530, 1840, or 1910	*
Two courses of a single language at or above the 2000 level	6
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 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-All 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 or CJCR 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.

**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 6 of the following zero credit courses:

PSYC 1019, 1020, 2019, 2020, 3019, 3020, 4019, 4020	0
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Total Core Psychology Hours29

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 9 Credit Hours

Select MATH 1530, 1840, or 1910	*
Two courses of a single language at or above the 2000 level ...	6
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 6 Credit Hours

MATH 1530	*
Single Laboratory Science	*
Research	6
Major Core	29 Credit Hours
Allied Core	12 Credit Hours
Concentration	7-19 Credit Hours
Minor Requirements	18-24 Credit Hours
Electives	12-15 Credit Hours
Total Credit Hours Required For Degree	120 Credit Hours

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	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:

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
PSYC 4817	Introduction to Psychological Testing	3
Senior Level Internship or Service-Learning or Independent Study or Honor's Thesis		3

Additional Allied requirements for Clinical Psychological Science:

BIOL 1110/11	Biology for Science Majors I	4
SOAA 1020	Introduction to Sociology	3
SOAA 2000	Marriage and the Family	3
SOAA 2020	Social Problems	3
SOAA 3030	Gender and Society	3
SOAA 3300	Deviant Behavior	3
SOAA 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
SOAA 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 encouraged 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 - 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.

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. 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

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 (BSW) 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 for entry-level generalist practice in a culturally diverse society and to instill in those students a lifelong commitment to addressing social problems and to challenging all forms of oppression and injustice. 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, particularly in Northeastern Tennessee and the southern Appalachian region. The mission of ETSU's B.S.W. Program supports the philosophy of social work and its major aim to restore, maintain, enhance, and promote the social functioning of individuals, families, groups, organizations, and communities by helping them to accomplish life tasks, to prevent and alleviate distress, and to utilize resources.

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 is reflected and implemented in the seven broad goals of the program.

1. To build upon students' liberal arts foundation by facilitating their knowledge and understanding of the development, implementation, and growth of social welfare and social work practice.
2. To prepare students as beginning generalist social work practitioners who possess the knowledge, values, and skills necessary for carrying out effective change efforts, in various social contexts, helping individuals, families, groups, organizations, and communities to enhance or restore their capacity for social functioning.
3. To prepare students to take an active role, personally and professionally, in addressing social problems and advocating for social, economic, and environmental justice for client systems of various sizes and types.
4. To prepare students to serve social welfare needs, particularly those of Northeastern Tennessee and the Southern Appalachian region, in a culturally competent manner.
5. To provide a sound educational foundation that instills in students the need for continued professional development, which may include graduate-level education in social work or in other allied programs of study.
6. To provide an educational environment that nurtures learning, stimulates self-reflection, encourages open dialogue, and is characterized by honesty, integrity, trust and respect.
7. To provide selective courses and extracurricular events to nonsocial work students and members of the local community who want to increase their understanding of social problems and the professional social work response to them.

B.S.W. Program Objectives

As a result of the B.S.W. experience, graduates should be able to:

1. Apply critical thinking skills within the context of professional social work practice.
2. Practice within the values and ethics of the social work profession and with an understanding of and respect for the positive value of diversity.
3. Demonstrate professional use of self.
4. Understand the forms and mechanisms of oppression and discrimination and the strategies of change that advance social and economic justice.
5. Understand the history of the social work profession and its current structures and issues.
6. Apply the knowledge and skills of generalist social work to practice with systems of all sizes.
7. Apply knowledge of bio-psycho-social variables that affect individual development and behavior, and use theoretical frameworks to understand the interactions among individuals and between individuals and social systems (i.e., families, groups, organizations, and communities).
8. Analyze the impact of social policies on client systems, workers, and agencies.
9. Evaluate research studies and apply findings to practice, and, under supervision, to evaluate their own practice interventions and those of other relevant systems.
10. Draw on practice knowledge and skills to interact effectively with clients, colleagues, and individuals in other practice contexts who have differing social, cultural, racial, religious, spiritual, sexual orientation, and class backgrounds.
11. Use supervision appropriate to generalist practice.
12. Function within the structure of organizations and service delivery systems, and under supervision, seek necessary organizational change.

13. Function effectively as generalist practitioners, particularly in the culturally diverse area of Northeastern Tennessee and the Southern Appalachian region.
14. Use a variety of learning strategies to promote lifelong learning and ongoing professional development.
15. Identify how personal values can impact service delivery and reconcile value conflicts that will prevent effective service provision.

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.

**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
SOAA 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
SOAA 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
PYSC 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 Major Requirements 18 Credit Hours
(The Council on Social Work Education does not accept minor programs of study.)

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

Other Course Options

Students must choose six (6) additional credits from the following list of options:

SOWK 2400	Rural and Appalachian Social Culture	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 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), SOAA 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.

First Semester

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

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

Admission – Requirements for admission to the social work major are as follows: (1) completion of Introduction to Social Work 1010 and six additional hours in required social work courses, (2) a minimum overall grade point average of 2.25 and a 2.50 average in required social work courses completed, (3) identified potential and suitability for the social work profession, (4) completion of 40 clock hours as a volunteer in one or more social service agencies, and (5) removal of a grade of C- or below in required social work courses prior to admission. (The social work faculty has modified admissions criteria, and those revisions are pending approval by ETSU’s Academic Council and the Tennessee Board of Regents. Once fully approved, the revised criteria will go into effect immediately and will be provided to students via their advisors through updated departmental handbooks, handouts, and the program’s web site: www.etsu.edu/socialwork.)

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 BSW 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 Review Policy 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 BSW 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. Only summer graduates are permitted to take field experience during the summer term.

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 four courses:

SPED 2300	Exceptional Learners in Schools & Comm.
EDFN 3301	Issues in Education
ELPA 6820	Law For Educational Leaders
SOWK 4467	School Social Work

Information about licensure exams is available from the Certification Analyst in the College of Education.

**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. A major or minor can be earned in sociology and a minor in anthropology is available. For other students, courses in sociology and anthropology are excellent electives in any degree program. In addition to specific department requirements listed below, students majoring in sociology must complete requirements for the general education core as well as 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).

Major – 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*	.....	3

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 Major Requirements	30 Credit Hours	
SOAA 1020	Introduction to Sociology	3
SOAA 2020	Social Problems	3
SOAA 3210	Sociological Research	3
SOAA 3350	Social Statistics	3
SOAA 4057	Community Sociology	3
SOAA 4807	Modern Social Theory	3
SOAA Electives**	.....	12

** Students must choose elective courses in consultation with a sociology advisor.

B.A. Requirements	3 - 9 Credit Hours
Proficiency in a single language equivalent to two years at the college level. (Credit hours vary.)	
1 course of Non-United States History	3
MATH 1530, 1840, or 1910	*

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	**
Computing Skills	**

* Satisfies TBR General Education Core Requirement.

** Satisfied with major courses

Minor Requirements	18-26 Credit Hours
Electives	13-28 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	
SOAA 1020	Introduction to Sociology	3
SOAA 2020	Social Problems	3
SOAA 3210	Sociological Research	3
SOAA Electives **	.....	9

** Students must choose elective courses in consultation with a sociology advisor.

ANTHROPOLOGY MINOR

The anthropology minor provides students with a holistic understanding of cultural diversity, human biological and cultural evolution, and the dynamic relationship between biology and culture.

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	
SOAA 1240	Introduction to Cultural Anthropology	3
SOAA 1260	Introduction to Archaeology	3
SOAA 1280	Introduction to Physical Anthropology	3

SOAA Electives *	12
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* Students should choose from the electives listed below in consultation with an anthropology advisor. Students are strongly advised to complete SOAA 1240, SOAA 1260, and SOAA 1280 before enrolling in anthropology elective courses.

SOAA 2040	Folk Culture in the Modern World	3
SOAA 2150	American Folk Music	3
SOAA 3070	Medical Anthropology	3
SOAA 3080	Nutritional Anthropology	3
SOAA 3250	Environmental Anthropology	3
SOAA 3260	Visual Anthropology	3
SOAA 3400	Human Osteology & Paleontology	3
SOAA 3500	Appalachian Folk Medicine	3
SOAA 3700	Peoples and Cultures of Latin America	3
SOAA 3800	Religion, Society, and Culture	3
SOAA 4007	Archaeology of the Southeastern U.S.	3
SOAA 4017	Historic Native American Cultures of the Southeastern U.S.	3
SOAA 4037	Old World Archaeology	3
ANTH 4240	Primatology	3
SOAA 4400	Archaeological Field School	3
SOAA 4567	Scottish Ethnology	3
SOAA 4627	Ethnographic Fieldwork Techniques	3
SOAA 4630	Native American Culture in Contemporary Society	3
ANTH 4830	Anthropological Theory	3
SOAA 4907	Foodways of Appalachia	3
SOAA 4957	Special Topics in Sociology & Anthropology	3

Note: Students majoring in sociology who elect to minor in anthropology cannot apply credit hours acquired for the anthropology minor for the sociology major and vice versa.

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.

Suggested Course Sequence for all Sociology Majors with a Social Science Degree Option

Freshman Year		Credit Hours
First Semester		
SOAA 1020	Introduction to Sociology	3
ENGL 1110	Critical Reading and Expository Writing	3
HIST 2010	The United States to 1877	3
Natural Science	.....	4
Communication: Oral Communication	.....	3
Semester Total	.....	16

Second Semester	Credit Hours
SOAA 2020 Social Problems	3
ENGL 1120 Critical Thinking and Argumentation	3
HIST 2020 The United States Since 1877	3
Natural Science	4
MATH 1530 Probability and Statistics	3
Semester Total	16

Sophomore Year

First Semester	Credit Hours
Sociology Elective	3
Literature	3
Social/Behavioral Sciences	3
Fine Arts	3
Minor Requirement	3
Semester Total	15

Second Semester	Credit Hours
Sociology Elective	3
Humanities	3
Humanities/Fine Arts Elective	3
Minor	3
Minor Elective	3
Semester Total	15

Junior Year

First Semester	Credit Hours
SOAA 3210 Sociological Research	3
Sociology Elective	3
Minor Requirement or Elective	3
PHIL 2030 or SPCH 2320	3
Elective	3
Semester Total	15

Second Semester	Credit Hours
SOAA 3350 Social Statistics	3
SOAA Elective	3
Minor Requirement or Elective	3
Elective	3
Elective	3
Semester Total	15

Senior Year

First Semester	Credit Hours
Sociology Elective	3
SOAA 4807 Modern Social Theory	3
SOAA 3444 Data Analysis	3
Minor Requirement or Elective	3
Elective	3
Semester Total	15

Second Semester	Credit Hours
SOAA 4057 Community Sociology	3
Sociology or Minor Elective	3
Electives	7
Semester Total	13
Total	120

**Technical Writing Minor
ENGL**

Box 70683 Phone: (423) 439-5991
www.etsu.edu/English

Dr. Darryl Haley 106 Bursleson 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 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 in place of the electives listed above. 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 that may be offered as electives for this minor.

Women's Studies Major

Box 70667 Phone: (423) 439-7571

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 related 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* **9 Credit Hours**

Foreign Language	6
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:

ARTA 4957	Special Topics: 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

One of the following Women's History courses:

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 4956/7	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
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
SOAA 3030	Gender and Society	3
SOWK 3030	Cultural Diversity ¹	3
SPCH 4200	Gender and Communication	3
WMST 4950	Issues in Women's Movement	3

Women's Studies Emphasis courses (max of two)²
 Other approved special topics courses³

¹ Students can count either HDAL 2340 Understanding Cultural Diversity or SOWK 3030 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 WSSC, in consultation with instructors. Limit of 2.

³ With approval of the Women's Studies Committee (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
WMST 2020	Women in Global Perspective	3
WMST 3330	Feminist Thought and Practice	3
Approved Electives (5 courses)*		15

*Three electives must form a course cluster that has been designed in consultation with a Women's Studies advisor.

Women's Studies Minor Electives

WMST 2020	Women in Global Perspective	3
WMST 3330	Feminist Thought and Practice	3
WMST 4500	Senior Capstone	3

Women and Cultural Production

ARTA 4957	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	Philosophy 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
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WMST 4080	Women's Studies Internship	3
ELPA/MGMT 4460	Leadership Studies	3

General 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
SOAA 3030	Gender and Society	3
SOWK 3030	Cultural Diversity ¹	3
SPCH 4200	Gender and Communication	3
WMST 4950	Issues in Women's Movement	3

Women's Studies Emphasis courses (max of two)²

Other approved special topics courses³

¹ Students can count either HDAL 2340 Understanding Cultural Diversity or SOWK 3030 Cultural Diversity toward the minor, but not both.

² *Women's Studies Emphasis* sections are special sections of standard courses in various departments, typically Gen. Ed. courses, which are designed and taught in ways that still meet their original course criteria within their own departments and within Gen. Ed., but also highlight female writers/theorists, women and gender issues, and/or feminist frameworks. These courses are designated by the WSSC, in consultation with instructors. Limit of 2.

³ With approval of the Women's Studies Committee (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		16

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 BA in Women's Studies 120

College of Business and Technology

Box 70699

Web address: <http://etsu.edu/cbat/>

Phone: (423) 439-5275

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, Finance, Geography, and Urban Studies; and Management and Marketing. The Technology division has four departments: Computer and Information Sciences; Family and Consumer 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, and marketing management.

Also offered is the Bachelor of Arts degree (B.A.) in Economics, which is a non-business degree.

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

1. 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.
2. Upon completion of 60 credit hours, each student who applies for admission to a major in business will be admitted if the following requirements are met:
 - a. The student must have attained a minimum overall grade point average of 2.0, except accountancy majors who must attain a minimum of 2.5.
 - b. 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
 - c. 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
3. 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 in Sam Wilson Hall, phone (423) 439-5275.

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, the Master of Public Administration (M.P.A.) degree, and the Master of City Management degree (M.C.M.). 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.

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 4597, 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

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, Finance,
Geography, and Urban Studies
(ECON)(FNCE)(GEOG)(URBS)**

P.O. Box 70686

Phone: (423) 439-4202

227 Sam Wilson Hall

Web address: <http://business.etsu.edu/fin/>

The Department of Economics, Finance, Geography, and Urban Studies offers both business and non-business degree programs. The mission of the department is to provide students with the high-quality educational experience that is necessary to succeed in a competitive global environment. The department has also established close ties with cooperating universities in Europe and encourages students to participate in the university’s foreign exchange relationships.

The Bachelor of Arts (B.A.) program offers study leading to a degree in economics. The department is also currently developing a Bachelor of Arts in Economics degree with a concentration in International Commerce. The B.A. is a non-business degree.

The Bachelor of Business Administration (B.B.A.) program offers study leading to degrees in either economics or finance. The Economics B.B.A. program offers degree concentrations in Business Economics or General

Business. The Finance B.B.A. program offers degree concentrations in Banking, Corporate Finance and Investments, and Real Estate.

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.

**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 &	3
	Public Choice	
ECON 4610	Managerial Economics	3

Specific Requirements:

ECON 3030	Microeconomics: Theories of	3
	Business Behavior	
ECON 3040	Macroeconomics: Analysis & Policy	3

Select three courses from the following 9

ECON 3700	History of Economic Concepts	3
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, Finance, and Urban Studies 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, Finance, Geography, and Urban Studies prior to enrollment.

Guided Business Electives 6 Credit Hours**

Non-Business Elective* 3 Credit Hours

Total Hours Required for Degree 120 Credit Hours

* See university General Education Core Requirements for options.

** These electives must be chosen from the College of Business and Technology course list.

**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	38 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
Social/Behavioral Sciences* (non-economics courses)	3

* See TBR General Education Core Requirements for options.

Bachelor of Arts Degree Requirements*	9 Credit Hours
Foreign Language	6
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	24 Credit Hours
ECON 2070 Quantitative Methods for Business I	3
ECON 2080 Quantitative Methods for Business II	3
ECON 2210 Principles of Economics I	3
ECON 2220 Principles of Economics II	3
ECON 3030 Microeconomics: Theories of	3
Business Behavior	
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, Finance, and Urban Studies 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	3
Behavior	
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

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:

ECON 3310	Monetary Economics	3
FNCE 3300	Principles of Investment	3
FNCE 3500	Capital Budgeting	3

Specific Requirements:

ACCT 3090	Administrative Accounting or ACCT course with the approval of the Chair of the Department of Economics, Finance, Geography, and Urban Studies	3
FNCE 4560	Portfolio Theory and Valuation	3
FNCE 4597	International Financial Management	3
FNCE 4620	Financial Analysis and Policy	3

Select six hours from: 6

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, Finance, and Urban Studies prior to enrollment.

Concentration II – Banking 27 Credit Hours

Basic Requirements:

ECON 3310	Monetary Economics	3
FNCE 3300	Principles of Investment	3
FNCE 3500	Capital Budgeting	3

Specific Requirements:

FNCE 4447	Banking and Financial Intermediation	3
FNCE 4500	Credit Management	3
FNCE 4520	Bank Policy	3
FNCE 4620	Financial Analysis and Policy	3

Select six hours from: 6

ACCT 3010	Financial Accounting I	
ACCT 3020	Financial Accounting II	
FNCE 4330	Real Estate Finance	
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, Finance, and Urban Studies prior to enrollment.

Concentration III – Real Estate 27 Credit Hours

Basic Requirements:

ECON 3310	Monetary Economics	3
FNCE 3300	Principles of Investment	3
FNCE 3500	Capital Budgeting	3

Specific Requirements:

ECON 4447	Urban and Regional Economics	3
FNCE 3120	Principles of Real Estate	3
FNCE 4320	Real Estate Appraisals	3
FNCE 4620	Financial Analysis and Policy	3

Select six hours from: 6

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, Finance, and Urban Studies 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, Finance, Geography, and Urban Studies prior to enrollment.

Geography

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.

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.)		

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.

Major - A student majoring in geography must complete a minimum of 30 credit hours in geography.

**Bachelor of Science Degree (B.S.)
Geography Major (GEOG)
Geography Concentration (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 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

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 17 Credit Hours

ENTC 1510 Student in University	2
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 (13) thirteen 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 Geographic 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

NOTE: Students who choose a minor in geology will find that most of these courses carry (4) four credit hours of credit.

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
SOAA 4157 Sociology of the City	3
SOAA 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

* These electives must be approved by the chair of the Department of Economics, Finance, Geography, and Urban Studies prior to enrollment.

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.

**Department of Management and Marketing
(MGMT) (MKTG)**

Box 70625

**Phone: (423) 439-4422
225 Sam Wilson Hall**

Web address: <http://business.etsu.edu/mkt/>

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 two 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
- 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

Select two courses from: 6

- MGMT 4317 Materials Management
- MGMT 4327 Decision Modeling and Simulation
- MGMT 4330 Data Management
- ACCT 4310 Accounting Information Systems
- 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 Team Management

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.

Interdisciplinary Minor in Leadership Studies

The Department of Management and Marketing 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 Management and Marketing and the Dean of Students.

Core Competency 21 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 4100 Writing in the Professions
- ENGL 3130 Advanced Composition
- ENTC 3030 Technical Communication
- JOUR 2120 Writing for Print Media

Focused Competency electives 6

- MGMT 3000 Organizational Behavior and Management 3
- MGMT 4460 Leadership Studies **or**
- ELPA 4460 Leadership Studies 3

Required Portfolio

**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.

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.

Technology

Coursework in Technology enables students to develop specialized and professional competency in their fields of study. The curriculum includes, in addition to the major topics of study, coursework in business, humanities, science, mathematics, and the social sciences. Emphasis is placed on communication and problem-solving competency; the development of interpersonal skills; and the application of basic scientific and research knowledge. A strong background in science and mathematics is recommended for entry into the programs.

Degrees and Programs

Department	Program/Concentrations	Degree
Computer & Information Sciences	Computing	B.S.
	Information Systems Science	
	Information Technology	
	Computing	M.S.
	Information Technology Applied Computer Science	
Family and Consumer Sciences	Child/Family/Consumer Studies	B.S.
	Nutrition and Foods	
	Interior Design	
	Merchandising Clinical Nutrition	M.S.
Technology & Geomatics	Engineering Technology	B.S., M.S.
	Biomedical Engineering Technology	
	Construction Technology	
	Electronics Engineering Technology	
	Industrial Technology	
	Manufacturing Engineering Technology	
	Digital Media	
	Digital Animation Digital Interaction Digital Visualization Surveying & Mapping	
Military Science	ROTC Basic Phase	
	ROTC Advanced Phase	Minor

Cooperative Education

Cooperative Education is an important part of the College departments' curriculum. It provides the university, the public and private sectors an opportunity to work together to support students. It gives students an opportunity to gain valuable hands-on experience while working under the guidance of a professional in the field. The chance to learn, practice, and mature makes the students' on-campus study more meaningful and opens doors for future employment.

Students enrolling in cooperative education in need to be aware of and follow regulations set forth by the College. To be eligible for enrollment, all students are required to meet the following criteria:

1. Must have completed a minimum of 32 semesters credit hours of coursework at an accredited college or university.
2. Must have completed the basic foundation courses in the major in which the student plans to Co-Op. This is to be determined by the students' academic advisor and the Co-Op coordinator.

3. Must have a minimum 2.50 GPA in their major.
4. Must have a minimum of a 2.25 GPA in all of their coursework at ETSU and other institutions.
5. Students are limited as to the number of semester credit hours of other courses they can register for during the semester they Co-Op.

The following formula applies:

Sem. Hrs. of Co-Op.	Work Hrs. per Week	Additional Sem. Hours permitted to take
1	10 - 19	12
2	20 - 29	7
3	30 - 40	4

If a student wishes to be considered for additional semester credit hours of coursework above the maximum allowed in the formula, then a formal appeal may be made to the Dean's Council. This appeal is handled through the College Co-Op coordinator.

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	**
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 first semester freshman only. If not taken or passed, another approved CSCI elective must be taken in its place.

** Satisfies TBR General Core 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*

* 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	
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 1710	World Wide Web – Design and Creation	3
CSCI 1800	Visual Programming I	4
CSCI 2200	Introduction to UNIX	3
CSCI 2300	Essentials of Information Security	3
CSCI 2800	Visual Programming – Advanced Concepts	4
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, !!)x, 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, 110x, 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
Commission of Accreditation for
Dietetics Education (CADE)

The Department of Family and Consumer Sciences offers the Bachelor of Science degree with a major in Family and Consumer Sciences.

B.S. in Family and Consumer Sciences

The Family and Consumer Sciences curriculum is designed to prepare students for professional careers in the family and consumer sciences professions. A major in Family and Consumer Sciences offers an area concentration with a minimum of 79 credit hours. The following (4) four concentrations with available options are offered:

Child/Family/Consumer Studies

This concentration offers two options: The Child and Family Option provides preparation for professional careers in programs that support children and their families. The Consumer Studies Option provides preparation for professional careers in all areas of the Family and Consumer Sciences field. Students choosing this option can graduate with all of the requirements necessary to pursue teacher licensure in Family and Consumer Sciences Education.

Nutrition and Foods

This concentration offers two options: the Nutrition and Dietetics option and the Food Service Management option. The Nutrition and Dietetics option provides students with skills and knowledge to provide nutrition education to individuals as well as to community groups. The Food Service Management option equips students to pursue upper-level management positions within food service operations.

Interior Design

This concentration offers preparation for entry-level positions in residential and contact design firms, sales, design consulting, computer-aided design, and other related design areas. The Interior Design curriculum meets the requirements for allied membership in the American Society of Interior Designers and qualifies as the education requirement for the NCIDQ examination.

Merchandising

This concentration offers two options, apparel and interiors. Both provide educational and on-site experiences for a variety of careers in the apparel, textile, and interiors industries including retail store management, sales representatives, buying, visual merchandising, advertising and promotion consulting, and entrepreneurship.

Family and Consumer Sciences Minor **18-22 Credit Hours**

A minor in Family and Consumer Sciences consists of a minimum of 18 credit hours. The minor may be focused within one of the above listed concentrations.

Curriculum

Students seeking the B.S. degree in Family and Consumer Sciences are required to complete the General Education Core Requirements (41 credit hours) and either pass the OIT Computer Proficiency Exam or complete CSCI 1100; the Family and Consumer Sciences Core requirements; the Family and Consumer Science courses required by (1) one of the (4) four concentrations; other supporting courses outside the department as identified; and either chosen or guided electives. Students should consult their Family and Consumer Sciences advisor for specific courses recommended from the university core and/or supporting courses. A minor is not required for this major.

**Bachelor of Science Degree (B.S.)
Family and Consumer Sciences Major (FACS)
Child/Family/Consumer Studies (CFCS)**

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
PSYC 1310	Introduction to Psychology	3
SOAA 1020	Introduction to Sociology	3

*See General Education Core Requirements.

Department Core Requirements 16 Credit Hours

FACS 1110	Family Development	3
FACS 1500	Freshman Seminar	1
FACS 2500	Sophomore Seminar	1
FACS 3500	Junior Seminar	1
FACS 4330	Family Management through Lifespan	3
FACS 4500	Senior Seminar	1
FACS 4537 Field Studies or		
FACS 4261	Merchandising Internship	3
FACS 4547	Corporate Etiquette	3
PSYC 1310	Introduction to Psychology	*
SOAA 1020	Introduction to Sociology	*

* Required for FACS Core and to satisfy TBR General Education Core Requirements.

Students must select either the Child and Family Concentration or the Consumer Studies Concentration indicated below:

Child and Family Studies Option 63 Credit Hours

FACS 2000	Preparation for Marriage	3
FACS 2110	Infant/Toddler/Child Development	3
FACS 2120	Foundations of Early Childhood Development	3
FACS 3110	Parent/Child/School Relations	3
FACS 3120	Computers & Technology in Early Childhood	1
FACS 3140	Guiding Young Children	3
FACS 3430	Community Nutrition	3
FACS 4127	Divorce: Causes and Consequences	3
FACS 4137	Youth Violence - Intervention to Prevention	3
FACS 4537	Field Studies	3
SOWK 4567	Human Sexuality	3
SOAA 4507	Sociology of Aging	3
SOAA 4087	Families in Transition	3
URBA 2610	Introduction to Public Administration	3
ECON 1050	Economics and Society	3
HDAL 2330	Adolescent Psychology	3
HDAL 4007	Applications of Group Processes	3
Electives*		14

Students may choose from the following suggested electives:

FACS 2200	Applied Design for Apparel & Interiors	2
FACS 2220	Consumer Clothing Concerns	3
WMST 2010	Woman's Studies	3
SOAA 3030	Gender and Society	3
SOAA 4257	Power, Wealth, and Poverty	3
HDAL 4666	Cultural Influences in Development	3
ECED 3120	Learning Environments in Young Children	3
ECED 3150	Creative Development in Young Children	3
ECED 4010	Observing & Assessing Young Children	3
ECED 4150	Literacy for Young Children	3

or

Consumer Studies Option 63-65 Credit Hours

FACS 1410	Food Selection & Preparation	4
FACS 1610	Historical Interiors	3
FACS 1620	Introduction to Contemporary Interiors	3
FACS 2110	Infant/Toddler/Child Development	3
MEDA 3570	Educational Technology	2
FACS 2205	Principles of Clothing	4
FACS 2000	Preparation for Marriage	3
FACS 3110	Parent/Child/School Relations	3
FACS 3220	Textiles I	3
FACS 3450	Community Nutrition	3
HDAL 3310	Educational Psychology	3
EDFN 3301	Issues in Education	3
FACS 4700	Vocational FACS Curriculum & Methods	4
HDAL 2330	Adolescent Psychology	3
Directed Electives*		19-21

Total Hours Required for Degree 120-122 Credit Hours

* If family and consumer sciences education, take 21 hours as follows: EDFN 2100, EDFN 2300, SPED 2300, READ 4437, CUA1 4580, and see department teacher educator for additional requirements; if consumer studies, take 19 hours from FACS 2200, FACS 2220, or unduplicated FACS courses at the 3000 or 4000 levels.

**Suggested Course Sequence
Freshman Year**

First Semester	Credit Hours
ENGL 1010 Critical Reading and Expository Writing	3
SOAA 1020 Introduction to Sociology	3
Natural Science*	4
FACS 1500 Freshman Seminar	1
FACS* Concentration Path	3-4
Semester Total	14-15

Second Semester	Credit Hours
ENGL 1020 Critical Thinking/Argumentation	3
Natural Science*	4
PSYC 1310 Introduction to Psychology	3
FACS 1110 Family Development	3
ECON 1050 or 2220	3
Semester Total	16

Sophomore Year

First Semester	Credit Hours
HIST 2010 The United States to 1877	3
Humanities/Fine Arts Elective	3
Mathematics*	3
FACS* Concentration Path	3-6
FACS 2500 Sophomore Seminar	1
Semester Total	13-16

Second Semester	Credit Hours
HIST 2020 The United States Since 1877	3
FACS* Concentration Path	10
Humanities/Fine Arts Elective	3
Semester Total	16

Junior Year

First Semester	Credit Hours
Humanities/Fine Arts Elective	3
FACS* Concentration Path	12
Semester Total	15

Second Semester	Credit Hours
FACS 3500 Junior Seminar	1
FACS* Concentration Path	12-15
Semester Total	13-16

Senior Year

First Semester	Credit Hours
Humanities/Fine Arts elective	3
FACS 4330 Family Management Thru the Lifespan	3
FACS 4500 Senior Seminar	1
FACS* Concentration Path	9
Semester Total	16

Second Semester (non-teaching)		Credit Hours
**FACS 4537	Field Experience or	3
FACS 4261	Merchandising Intern	3
**FACS 4547	Corporate Etiquette	3
SOAA 4087	Families in Transition	3
FACS* Concentration Path		3
Semester Total		15
Total		120
Second Semester (teaching)		Credit Hours
CUAI 4580	Student Teaching	12
Semester Total		12
Total		122

* Consult Major Advisor for FACS Concentration/Option specific sequencing.
 ** These courses will be completed prior to student teaching.

Child/Family/Consumer Studies Minor

Minor in Child/Family/Consumer Studies 18 Credit Hours

FACS 2110	Infant/Toddler/Child Development	3
FACS 3110	Parents/School/Child Relations	3
FACS 4127	Divorce: Causes and Consequences	3
FACS 4137	Youth Violence	3
FACS 4330	Family Management Through the Lifespan	3
FACS	Upper Division (3000-4000 Level) Electives	3

**Bachelor of Science Degree (B.S.)
 Family and Consumer Sciences Major (FACS)
 Nutrition and Foods Concentration (NTFD)**

Nutrition and Dietetics

The program is accredited through the Commission Accreditation for Dietetics Education (CADE) of the American Dietetic Association (120 South Riverside Plaza, Ste. 2000. Chicago, IL 60606-6995). Students who successfully complete all of the requirements for undergraduate dietetic education will be issued a verification statement indicating their readiness for an internship experience. Students may elect to pursue a six- to 12-month internship following graduation which will allow them to be eligible to take the national Registration Examination for dietitians.

Food Service Management

The Food Service Management concentration provides in-depth knowledge and skills to enable the student to enter the stimulating field of food service management. The study of food service management combines both science and business skills that enable students to be successful in the competitive retail food market which ranges from health care to luxury cruise lines.

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
SPCH 2300 or 2320		3
MATH 1530	Probability & Statistics	3
CHEM 1000	Chemistry and Well Being	4
BIOL 1020/1021	Biology for Non-Majors II or	4
CHEM 1110/1111	General Chemistry Lecture I/Lab	4
CHEM 1120/1121	General Chemistry Lecture II/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

PSYC 1310	Introduction to Psychology	3
SOAA 1020	Introduction to Sociology	3

*See TBR General Education Core Requirements

Department Core Requirements 16 Credit Hours

FACS 1110	Family Development	3
FACS 1500	Freshman Seminar	1
FACS 2500	Sophomore Seminar	1
FACS 3500	Junior Seminar	1
FACS 4330	Family Mgmt. through the Lifespan	3
FACS 4500	Senior Seminar	1
FACS 4261	Merchandising Internship or	
FACS 4537	Field Studies	3
FACS 4547	Corporate Etiquette	3
PSYC 1310	Introduction to Psychology	*
SOAA 1020	Introduction to Sociology	*

*Satisfies TBR General Education Core Requirements.

Nutrition and Foods Core Requirements 22 Credit Hours

FACS 1410	Food Selection and Preparation	4
FACS 3430	Community Nutrition	3
FACS 3460	Experimental Food Science	4
FACS 4417	Food Systems Operations	3
FACS 4467	Quantity Food Procurement & Prod.	4
FACS 4497	Administration of Food Svc. Operations	4

Nutrition and Dietetics 41 Credit Hours

FACS 2420	Principles of Nutrition	3
FACS 3465	Human Nutrition and Metabolism	3
FACS 4427	Diet in Disease I	3
FACS 4437	Diet in Disease II	3
FACS 4447	Nutritional Biochemistry	3
FACS 4700	Vocational FACS Curriculum & Methods	4
HSCI 2230/31	Introduction to Microbiology/Lab	4
HSCI 3000	Anatomy	4
HSCI 3020	Human Physiology	4
CHEM 2010	Organic Chemistry Lecture	3
CHEM 2011	Organic Chemistry Lab	2
Electives		5

Total Hours Required for Degree 120 Credit Hours

(American Dietetic Association requires from General Education Core: CHEM 1110/11, CHEM 1120/21, MATH 1530, and CSCI 1100.)

Food Service Management 41 Credit Hours

ACCT 2010	Principles of Accounting I	3
BADM 1130	Introduction to Business	3
ENVH 4607	Food Sanitation Principles	3
FACS 2480	Food Service Management Internship	4
FACS 3470	Beverage Management	2
FACS 3480	Food Service Management Internship	4
FACS 4225	Merchandising, Planning, and Control	3
FACS 4480	Food Service Management Internship	4
MKGT 3200	Introduction to Marketing	3
MGMT 3000	Introduction to Management	3
MGMT 3310	Legal Environment of Business	3
MGMT 4510	Human Resources Management	3
Electives		3

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
SOAA 1020	Introduction to Sociology	3
Science Requirement		4
FACS 1500	Freshman Seminar	1
FACS Concentration Path*		3
Semester Total		14
Second Semester	Credit Hours	
ENGL 1020	Critical Thinking and Argumentation	3
Science Requirement		4
PSYC 1310	Introduction to Psychology	3
FACS 1110	Family Development	3
FACS elective		3
Semester Total		16

Sophomore Year

First Semester	Credit Hours
HIST 2010 The United States to 1877	3
Humanities/Fine Arts Elective	3
Math Requirement	3
FACS Concentration Path*	5
FACS 2500 Sophomore Seminar	1
Semester Total	15
Second Semester	Credit Hours
HIST 2020 The United States Since 1877	3
FACS Concentration Path*	10
Communications Elective	3
Semester Total	16

Junior Year

First Semester	Credit Hours
Humanities/Fine Arts Elective	3
FACS Concentration Path*	12
Semester Total	15
Second Semester	Credit Hours
FACS 3500 Junior Seminar	1
FACS Concentration Path*	12
Semester Total	13

Senior Year

First Semester	Credit Hours
Humanities/Fine Arts Elective	3
FACS 4330 Family Management through Lifespan	3
FACS 4500 Senior Seminar	1
FACS Concentration Path*	9
Semester Total	16
Second Semester	Credit Hours
FACS 4537 Field Studies	3
or	
FACS 4261 Merchandising Internship	3
FACS 4547 Corporate Etiquette	3
FACS Concentration Path*	9
Semester Total	15
Total	120

*Consult Major Advisor for FACS Concentration for specific sequencing.

Nutrition and Foods Minor 20 Credit Hours

FACS 1410 Food Selection and Preparation	4
FACS 2420 Principles of Nutrition	3
FACS 3430 Community Nutrition	3
FACS 3465 Human Nutrition and Metabolism	3
FACS 3460 Experimental Food Science	4
FACS 4427 Diet in Disease I	3

Food Service Management Minor 22 Credit Hours

FACS 1410 Food Selection and Preparation	4
FACS 2420 Principles of Nutrition	3
FACS 4497 Administration of Food Service	4
Organizations	
FACS 3460 Experimental Food Science	4
FACS 4417 Food Systems Operations	3
ACS 4467 Quantity Food Procurement and Production	4

** Required from the General Education Core: CHEM 1110/1111 and CHEM 1120/1121.

INTERIOR DESIGN CONCENTRATION

The Bachelor of Science degree offers preparation for entry-level positions in residential and contract design firms, sales, design consulting, computer-aided design, and other related design areas. The Interior Design curriculum meets the requirements for allied membership in the American Society of Interior Designers and qualifies as the education requirement for the NCIDQ examination.

Interior design majors must maintain a minimum cumulative GPA of 2.75 to continue through the program sequence and earn a grade of "C" or higher in all FACS *600 courses (from 1610 - 4615). At the end of the sophomore year in the interior design program, student portfolio work will be evaluated by a three-person committee, including the student's major advisor. Students whose work shows evidence of ability to succeed in the interior design field may register for upper-level division courses.

**Bachelor of Science Degree (B.S.)
Family and Consumer Sciences (FACS)
Interior Design Concentration (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.

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
Mathematics*	3-4
Natural Sciences*	8
HIST 2010 The United States to 1877	3
HIST 2020 The United States Since 1877	3
Fine Arts*	3
Literature*	3
Humanities*	3
PSYC 1310 Introduction to Psychology	3
SOAA 1020 Introduction to Sociology	3

* See TBR General Education Core Requirements

Department Core Requirements 16 Credit Hours

FACS 1110 Family Development	3
FACS 1500 Freshman Seminar	1
FACS 2500 Sophomore Seminar	1
FACS 3500 Junior Seminar	1
FACS 4330 Family Management Through the Lifespan	3
FACS 4500 Senior Seminar	1
FACS 4261 Merchandising Internship or	
FACS 4537 Field Studies	3
FACS 4547 Corporate Etiquette	3
PSYC 1310 Introduction to Psychology	*
SOAA 1020 Introduction to Sociology	*

Interior Design Core Requirements 63 Credit Hours

ARTA 1110 Basic Design (Studio)	3
ARTA 1140 3-D Design	3
ARTA 1201 Drawing Fundamentals	3
ARTA 1204 Color Theory	3
ARTA 2071 Beginning Weaving or	
ARTA 3221 Textiles II	3
FACS 1610 Historical Interiors	3
FACS 1621 Design Communication: Studio I	3
FACS 1620 Introduction to Contemporary Interiors	3
FACS 2611 Kitchen and Bath Planning	3
FACS 2620 Design for Human Behavior	3
FACS 2630 Presentation: Studio II	3
FACS 3615 Space Planning: Studio III	3
FACS 3621 Residential Design & Housing	3
FACS 3625 AutoCad for Interior Design	3
FACS 3627 Materials and Methods	3
FACS 3630 Lighting	3
FACS 3650 Contract Design	3
FACS 4610 Health Care: Studio IV	3
FACS 4611 Hospitality: Studio V	3
FACS 4615 Professional Practices in Interior Design	3
FACS 4657 Architectural Study Tour	3

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
ARTA 1140	3-D Design	3
FACS 1500	Freshman Seminar	1
Fine Arts Elective (ARTA 2020 recommended)		3
Speech Elective		3
Semester Total		16
Second Semester		Credit Hours
ENGL 1020	Critical Thinking/Argumentation	3
HIST 2010	The United States to 1877	3
ARTA 1201	Drawing Fundamentals (See Advisor)	3
ARTA 1204	Color Theory	3
MATH Elective		3
Semester Total		15

Sophomore Year

First Semester		Credit Hours
FACS 1610	Historical Interiors	3
FACS 3221	Textiles II (See Advisor)	3
FACS 1621	Studio I	3
FACS 2620	Design for Human Behavior	3
HIST 2020	The United States Since 1877	3
Semester Total		15
Second Semester		Credit Hours
PSYC 1310	Introduction to Psychology (Social and Behavioral Sciences)	3
Humanities Elective		3
FACS 2630	Studio II	3
FACS 2500	Sophomore Seminar	1
FACS 1110	Family Development	3
Semester Total		16

Junior Year

First Semester		Credit Hours
Science Elective		4
FACS 3650	Contract Design	3
FACS 2611	Kitchen and Bath	3
FACS 3625	AutoCAD for ID	3
FACS 3615	Studio III	3
Semester Total		16
Second Semester		Credit Hours
FACS 4615	Professional Practices	3
FACS 3627	Materials and Methods	3
FACS 4657	Historical Interiors II: Study Tour	3
FACS 4957	Special Topics: Adv. AutoCAD (See Advisor)	3
FACS 3500	Junior Seminar	1
FACS 4537	Field Studies (Recommended for Summer)	3
Semester Total		16

Senior Year

First Semester		Credit Hours
FACS 3621	Residential Design and Housing	3
FACS 4610	Studio IV	3
FACS 4500	Senior Seminar	1
Science Elective		4
FACS 4330	Family Management through the Lifespan	3
Semester Total		14
Second Semester		Credit Hours
FACS 3630	Advanced Lighting	3
FACS 4611	Studio V	3
FACS 4546	Corporate Etiquette	3
ENGL	English Literature	3
SOAA 1020	Introduction to Sociology (Social and Behavioral Sciences)	3
Semester Total		15
Total		120

*Consult Major Advisor for FACS Concentration/Option specific sequencing.

A minor is not required with the Interior Design Concentration, but it is recommended that electives be selected to meet requirements of a minor. Suggestions for a minor include Technology, Art, Marketing, or Management. (Consult with the appropriate department chair for further details.)

Interior Design Concentration Minor 18-21 Credit Hours

FACS 1620	Introduction to Contemporary Interiors	3
FACS 1621	Design Communication: Studio I	3
FACS 2611	Kitchen and Bath Planning	3
FACS 2620	Design for Human Behavior	3
FACS 2630	Presentation: Studio II or	
FACS 4240	Visual Merchandising	3
FACS 1610	Historical Interiors or	
FACS 3221	Textiles II or	
FACS 4657	Architectural Study Tour	3
FACS 3615	Space Planning	3

MERCHANDISING CONCENTRATION

Students in the merchandising concentration must choose an option in either apparel or interior merchandising. The Merchandising Concentration prepares students for a variety of careers available in the apparel, textile and interiors industries, including retail store management, sales representative, buying, visual merchandising, advertising and promotion, consulting, entrepreneurship, etc.

**Bachelor of Science Degree (B.S.)
Family and Consumer Sciences Major (FACS)
Merchandising Concentration (MDSE)**

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
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
PSYC 1310	Introduction to Psychology	3
SOAA 1020	Introduction to Sociology	3

* See TBR General Education Core Requirements for options.

** Specific sequence required. See major advisor.

Department Core Requirements 16 Credit Hours

FACS 1110	Family Development	3
FACS 1500	Freshman Seminar	1
FACS 2500	Sophomore Seminar	1
FACS 3500	Junior Seminar	1
FACS 4500	Senior Seminar	1
FACS 4537	Field Studies or	
FACS 4261	Merchandising Internship	3
FACS 4330	Family Management through the Lifespan	3
FACS 4547	Corporate Etiquette	3
PSYC 1310	Introduction to Psychology	*
SOAA 1020	Introduction to Sociology	*

Select ONE of the following paths:

Merchandising Core Requirements 29 Credit Hours

ECON 1050	Economics and Society	3
FACS 2200	Applied Design for Apparel and Interiors	2
FACS 3220	Textiles I	3
FACS 3221	Textiles II	3
FACS 4225	Merchandise Planning and Control	3
FACS 4230	Merchandise Buying	3
FACS 4240	Visual Merchandising	3
FACS 4250	Advertising & Promotion	3
FACS 4221	Merchandising Study Tour or	
FACS 4261	Merchandising Internship	3
FACS 4260	Merchandising Seminar	3

Apparel Option 34 Credit Hours

FACS 2205	Principles of Clothing	4
FACS 2220	Consumer Clothing Concentration	3
FACS 3210	Apparel Quality Analysis	4
FACS 3230	Fashion Fundamentals	3

FACS 4220 Fashion Merchandising	3
Electives	2
Directed Electives ** (see below) or	15

Interiors Option 34 Credit Hours

FACS 1610 Historical Interiors	3
FACS 1620 Introduction to Contemporary Interiors	3
FACS 1621 Design Communication: Studio I	3
FACS 2611 Kitchen and Bath Planning	3
FACS 2620 Design for Human Behavior	3
Electives	4
Directed Electives** (see below)	15

**Directed Electives MUST be selected from the list below:
Prerequisite(s): FACS 2200.

ACCT 2010 Accounting I	3
ARTA 1204 Color Theory*	3
ARTS 2071 Beginning Weaving*	3
ARTA 2200 Basic Photography*	3
ARTA 3071 Intermediate Weaving II	3
Prerequisite(s): ARTA 2071)	
ARTA 3072 Intermediate Weaving III	3
(Prerequisite(s): ARTA 2071 & 3071)	
ARTA 3073 Fiber Construction*	3
ARTA 3380 Natural & Chemical Dyeing*	3
(Prerequisite(s): ARTA 1201)	
ARTA 3601 Intermediate Photography*	3
(Prerequisite(s): ARTA 2200)	
ARTA 3602 Color Photography*	3
(Prerequisite(s): ARTA 2200)	
ARTA 4073 Fabric Design*	3
(Prerequisite(s): ARTA 1204)	
FACS 3630 Advanced Lighting*	3
(Prerequisite(s): FACS 2611)	
FACS 3625 AutoCad for ID*	3
(Prerequisite(s): CSCI 1110)	
MGMT 3310 Legal Environment of Business	3
(Prerequisite(s): Junior Standing)	
MGMT 3320 Management and Social Responsibility	3
(Prerequisite(s): MGMT 3310)	
MGMT 3650 Supply Chain Management	3
(Prerequisite(s): MGMT 3310)	
MKTG 3200 Principles of Marketing	3
(Prerequisite(s): Junior Standing)	
MKTG 3202 Consumer Behavior	3
(Prerequisite(s): MGMT 3200)	
MKTG 3310 Business Logistics	3
(Prerequisite(s): ECON 2210 & MKTG 3200)	
MKTG 3350 Retailing	3
(Prerequisite(s): MKTG 3200)	
MKTG 3740 Sales Force Management	3
(Prerequisite(s): MKTG 3200)	
MKTG 3750 Advertising Campaign Management	3
(Prerequisite(s): MKTG 3200 & 3202)	

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
SOAA 1020 Introduction to Sociology	3
Natural Science*	4
FACS 1500 Freshman Seminar	1
FACS* Concentration Path	3
Semester Total	14
Second Semester	Credit Hours
ENGL 1020 Critical Thinking and Argumentation	3
Natural Science*	4
PSYC 1310 Introduction to Psychology	3
ECON 1050 or 2220	3
Semester Total	16

Sophomore Year

First Semester	Credit Hours
HIST 2010 The United States to 1877	3
Humanities/Fine Arts Elective	3
Mathematics	3
FACS* Concentration Path	5
FACS 2500 Sophomore Seminar	1
Semester Total	15
Second Semester	Credit Hours
HIST 2020 The United State Since 1877	3
FACS* Concentration Path	10
Humanities/Fine Arts Elective	3
Semester Total	16

Junior Year

First Semester	Credit Hours
Humanities/Fine Arts Elective	3
FACS Concentration Path*	12
Semester Total	15
Second Semester	Credit Hours
FACS3500 Junior Seminar	1
FACS Concentration Path*	12
Semester Total	13

Senior Year

First Semester	Credit Hours
Humanities/Fine Arts Elective	3
FACS 4330 Family Management through Lifespan	3
FACS 4500 Senior Seminar	1
FACS Concentration Path*	9
Semester Total	16
Second Semester	Credit Hours
FACS 4537 Field Studies	
or	
FACS 4261 Merchandising Internship	3
FACS 4547 Corporate Etiquette	3
FACS Concentration Path*	9
Semester Total	15
Total	120

*Consult Major Advisor for FACS Concentration specific sequencing.

Merchandising Minor 18 Credit Hours

FACS 2200 Applied Design for App & Int	2
FACS 4225 Merchandise Planning & Control	3
FACS 4230 Merchandise Buying	3
FACS 4240 Visual Merchandising	3
FACS 4250 Advertising and Promotion	3
FACS 3000-4000 Level Electives	4

Department of Technology and Geomatics

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The Department of Technology and Geomatics administers three separate and distinct undergraduate Bachelor of Science (B.S.) degree programs Engineering Technology, Digital Media, and Surveying and Mapping Science. In addition, a minor is available in technology. Engineering Technology offers a common core of classes along with five individual concentrations: biomedical engineering technology, construction technology, electronics engineering technology, industrial technology, and manufacturing engineering technology. Digital Media offers a core and three separate concentrations: digital animation, digital interaction, and digital visualization. The Surveying and Mapping curriculum has a core curriculum and guided electives in three sequences: cadastral/design, geoscience, and surveying business.

Programs

Engineering Technology

Digital Media

Surveying and Mapping Science

Concentrations

Biomedical Engineering Tech.

Construction Technology

Electronics Engineering Tech.

Industrial Technology

Manufacturing Engineering Tech.

Product Developments

Digital Animation

Digital Interaction

Digital Visualization

GRADUATE STUDY

The Department of Technology and Geomatics 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 or science.
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 Department of Technology and Geomatics advisor.

Minor

A minor in technology is available to students who wish to acquire technical knowledge and skills. Requirements for the 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 encouraged. Students must meet the prerequisites listed in the catalog for a particular course they wish to take or obtain permission of the instructor.

Students who transfer technical courses from technical institutes, colleges, or military technical schools who wish a minor in technology must complete a minimum of three (3) courses in the department regardless of the number of credit hours transferred. Prior to registering for final three (3) courses in the minor, students are required to meet with an academic advisor in the Department of Technology and Geomatics.

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
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 1710 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 RF 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 the Accreditation Board for Engineering and Technology.

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	
GEOL 1040 Physical Geology	4
Literature*	3
Fine Arts*	3
ENTC 3020 Technology and Society	3
Social/Behavioral Sciences*	6

*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 Technical 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 or	
MGMT 3310 Legal Environment of Business	3
MATH 1720 Precalculus	3
MATH 1840 Analytic Geometry and Differential Calculus	4
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
Social/Behavioral Sciences	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
Fine Arts	3
Semester Total	17

Sophomore Year

First Semester	Credit Hours
ENTC 3650 Electrical Systems	4
MATH 1850 Integral Calculus	3
Communication: Oral Communication	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	
GEOL 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
Social/Behavioral Sciences	3
Semester Total	18

Senior Year

First Semester	Credit Hours
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	Credit Hours
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

**ELECTRONICS ENGINEERING TECHNOLOGY
CONCENTRATION**

This program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET). 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.

**Bachelor of Science Degree (B.S.)
Engineering Technology Major (ENTC)
Electronics Engineering Technology Concentration (ELEC)**

This program is accredited by the Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering and Technology (ABET). 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
Fine Arts Elective*	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 2870

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 Electrical 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
⁴ 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 2870, 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 4999	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 the Accreditation Board for Engineering and Technology.

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.

**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	4
Humanities/Fine Arts		3
Semester Total		17
Semester Total		16

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.*

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:	.....
FACS 1610	Historical Interiors	3
FACS 1620	Introduction to Contemporary Interiors	3
FACS 2620	Design for Human Behavior ⁷	3
ENTC 2420	Residential and Commercial Planning	4
ENTC 2440	Mechanical Systems	4
SURV 2550	Surveying Measurement Fundamentals	4

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 EACS 1621 may be substituted for ENTC 2160 for students taking EACS 2620.

**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
EGON 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, problem-solving, production processes, animation and interactive programming. Students in the Interaction Design concentration would typically be preparing for careers in the Internet and interactive multimedia entertainment, gaming, education, corporate training, and marketing industries.

Digital Visualization—This concentration gives students the background necessary to create 3-dimensional digital models that solve visual problems and provide 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.

Students in the Digital Media program must complete a portfolio of core coursework and pass a progress review by their junior year before taking upper-level DIGM courses. 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.

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 I Lecture/Lab	4
	Natural Sciences* (for 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 17 Credit Hours

ARTA 1201	Drawing Fundamentals	3
ARTA 2120	Basic Figure Drawing	3
DIGM 2870	Animation Fundamentals	4
DIGM 3110	3-D Model Design	4
THEA 2510	Acting I	3

Digital Animation Concentration

Guided Electives 24 Credit Hours

Select a minimum of 12 hours from:

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 4147	Fundamentals of Character Animation	3
DIGM 4146	Character Animation Laboratory	1
DIGM 4617	Advanced Raster-Based Imaging	3
DIGM 4616	Raster-Based Imaging Laboratory	1
DIGM 4627	Motion Tools II: Compositing	3
DIGM 4626	Motion Tools II: Laboratory	1
DIGM 4647	Advanced Animation	3
DIGM 4646	Advanced Animation Laboratory	1
DIGM 4817	3-D Effects Animation	3
DIGM 4816	3-D Effects Animation Laboratory	1
DIGM 4827	Motion Tools III: Application	3
DIGM 4826	Motion Tools III: Laboratory	1
DIGM 4877	Advanced Modeling & Lighting	3
DIGM 4876	Modeling & Lighting Laboratory	1
DIGM 4887	Technical Direction for Animation	3
DIGM 4886	Technical Direction for Animation	1
DIGM 4900	Independent Study in Digital Media	2-6
DIGM 4957	Special Topics in Digital Media	2-6

Guided electives are to be chosen with the guidance of an advisor, and with the permission of the department, according to the student's desired area of specialization.

Total Hours Required for Degree 120 Credit Hours

Digital Interaction Concentration

Requirements 11 Credit Hours

ARTA 3401	Typography	3
CSCI 1800	Visual Programming I	4
DIGM 2821	Desktop Publishing	4

Digital Interaction Concentration

Guided Electives 30 Credit Hours

Select a minimum of 16 hours from:

DIGM 2870	Animation Fundamentals	4
DIGM 2900	Motion Tools I: Editing	4
DIGM 3110	3-D Model Design	4
DIGM 3120	3-D Lighting & Rendering	4
DIGM 3130	3-D Animation	4
DIGM 3200	Web Design	4
DIGM 3400	Interaction Design	4
DIGM 4400	Interactive Development	4
DIGM 4617	Advanced Raster-Based Imaging	3
DIGM 4616	Raster-Based Imaging Laboratory	1
DIGM 4627	Motion Tools II: Compositing	3
DIGM 4626	Motion Tools II: Laboratory	1
DIGM 4637	Advanced Interaction Design	3
DIGM 4636	Advanced Interaction Laboratory	1
DIGM 4657	Advanced Web Design	3
DIGM 4656	Web Design Laboratory	1
DIGM 4817	3-D Effects Animation	3
DIGM 4816	3-D Effects Animation Laboratory	1
DIGM 4827	Motion Tools III: Application	3
DIGM 4826	Motion Tools III: Laboratory	1
DIGM 4877	Advanced Modeling & Lighting	3
DIGM 4876	Modeling & Lighting Laboratory	1
DIGM 4887	Technical Direction for Animation	3
DIGM 4886	Technical Direction for Animation	1

DIGM 4900	Independent Study	2-6
DIGM 4957	Topics in Digital Media	2-6

Guided electives are to be chosen with the guidance of an advisor, and with the permission of the department, 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 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 4147	Fundamentals of Character Animation	3
DIGM 4146	Character Animation Laboratory	1
DIGM 4400	Interactive Development	4
DIGM 4617	Advanced Raster-Based Imaging	3
DIGM 4616	Raster-Based Imaging Laboratory	1
DIGM 4627	Motion Tools II: Compositing	3
DIGM 4626	Motion Tools II: Laboratory	1
DIGM 4637	Advanced Interaction Design	3
DIGM 4636	Advanced Interaction Laboratory	1
DIGM 4647	Advanced Animation	3
DIGM 4646	Advanced Animation Laboratory	1
DIGM 4657	Advanced Web Design	3
DIGM 4656	Web Design Laboratory	1
DIGM 4667	Advanced Product Design	3
DIGM 4666	Product Design Laboratory	1
DIGM 4817	3-D Effects Animation	3
DIGM 4816	3-D Effects Animation Laboratory	1
DIGM 4827	Motion Tools III: Application	3
DIGM 4826	Motion Tools III: Laboratory	1
DIGM 4877	Advanced Modeling & Lighting	3
DIGM 4876	Modeling & Lighting Laboratory	1
DIGM 4887	Technical Direction for Animation	3
DIGM 4886	Technical Direction for Animation	1
DIGM 4900	Independent Study	2-6
DIGM 4957	Topics in Digital Media	2-6

Guided electives are to be chosen with the guidance of an advisor, and with the permission of the department, according to the students' desired area of specialization.

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
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
Communication: Oral Communication		3
ENTC 3030	Technical Communication	3
DIGM Topics, Concentration Courses, or Guided Electives	.....	6
Semester Total		15

Second Semester		Credit Hours
Natural Sciences		4
Social/Behavioral Sciences		3
DIGM Topics, Concentration Courses, or Guided Electives	.....	8
Semester Total		15

Senior Year

First Semester		Credit Hours
Social/Behavioral Sciences		3
DIGM Topics, Concentration Courses, or Guided Electives	.....	12
Semester Total		15

Second Semester		Credit Hours
DIGM 4930	Portfolio Development for Digital Media	4
DIGM Topics, Concentration Courses, or Guided Electives	.....	11
Semester Total		15
Total		120

BACHELOR OF SCIENCE IN SURVEYING AND MAPPING

This program is accredited by the Applied Science Accreditation Commission of the Accreditation Board for Engineering and Technology (ASAC of ABET).

Students in Surveying and Mapping Science pursue coursework in professional land surveying practice and may include specialty areas such as Land Boundary, Subdivision Design, Cartography, Remote Sensing, and Geographic Information Systems (GIS). Core courses include plane, geodetic, photogrammetric and boundary surveying. By taking a minimum of 64 credit 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
GEOG 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

GEOG 4587	Engineering Geology	4
GEOG 4617	Structural Geology *	4
GEOG 4905	Independent Studies: Subsurface Hydro	4
SURV 4617	Digital Image Process **	3
SURV 4567	Positioning with GPS	3
SURV 4957	Special Topics: Surface Hydrology	4
Total		22

* GEOG 4217 can be substituted. ** SURV 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

* CSCI 1800 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
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

Transfer Students - Transfer students without a B.S. from another institution must take a minimum of 60 credits from ETSU to receive a B.S. in Surveying and Mapping Science. Transfer students with a B.S. from another institution must take a minimum of 34 credits from ETSU and meet all other requirements to receive a B.S. in Surveying and Mapping Science. 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**

		Credit Hours
First Semester		
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		
ENGL 1020	Critical Thinking and Argumentation	3
MATH 1920	Calculus II	4
SURV 2550	Survey Measurement Fundamentals	4
Communication: Oral Communication*	.....	3
GEOG 1040	Physical Geology	4
	Semester Total	18

Sophomore Year

		Credit Hours
First Semester		
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		
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

		Credit Hours
First Semester		
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		
FNCE 3130	Real Estate Law	3
ENTC 3020	Technology and Society	3
Technical Electives**	.....	10-12
	Semester Total	16-18
Summer Semester		
ENTC 3989	Co-op Education	3
or		
SURV 3540	Surveying Projects	1-3
	Semester Total	1-3

Senior Year

		Credit Hours
First Semester		
SURV 4520	Survey Science Topics	3
SURV 4537	Land Boundary Location	4
GEOG 3210	Cartography	3
Technical Elective**	.....	3-4
	Semester Total	13-14
Second Semester		
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.

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 30 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

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.

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.

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, and coordinates Cohort programs. Arrangements for off-campus courses can be made by calling Cross-Disciplinary Studies at (423) 439-4223. 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

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 Saturday	7:30 a.m. - 7:00 p.m. 8:00 a.m. - 1:00 p.m.
Telephone:	(423) 392-8000	Fax: (423) 392-8014

ETSU at Bristol

Bristol – Day and evening classes, including lower division, upper division, and graduate courses, are offered each term at ETSU at Bristol, located at 1227 Volunteer Parkway, Executive Park Plaza. Undergraduate core courses plus selected courses from several undergraduate and graduate majors are available. Courses are taught by full-time faculty or adjunct instructors from the community. Academic advising is available by appointment and additional support services are provided at designated times each semester. Student services and facilities include registration and fee payment, student financial aid information, I.D.s and tutoring, library with computer connections to main campus, a computer laboratory, four instructional television classrooms, bookstore order information, and a Grand Hall for community events.

Students may pursue a Bachelor of General Studies (B.G.S.) or other adult studies degrees or take classes leading to majors in business, education, criminal justice and engineering technology. The entire R.N. to B.S.N. nursing program is available on selected weekends. Other master's degrees include: Professional Communications, Early Childhood Education, Secondary Education/Classroom Technology, School Counseling, Emerging Computer Technology, Reading, and Master of Business Administration (M.B.A.).

Office hours:	Monday - Thursday Friday	8:00 a.m.- 7:00 p.m. 8:00 a.m.- 4:30 p.m.
Telephone:	(423) 844-6300	Fax: (423) 844-6303

Office of Distance Education

Box 70427

Phone: (423) 439-6809

The Office of Distance Education offers live, interactive televised courses, professionally produced telecourses through public broadcast and by video checkout, and WWW/Internet-based courses.

Live, interactive Television Courses. These courses are regularly scheduled campus classes transmitted to off-campus locations at ETSU at Kingsport and ETSU at Bristol. ETSU can link with other educational institutions to deliver or receive live courses or programs outside of our primary service area. All interactive television distribution systems allow the university to serve undergraduate and graduate students at off-campus locations while also integrating them into the regular campus classroom. Classroom facilitators meet with the students during class at all receive-site locations. All class meetings are taped and copies are placed in the Sherrod Library Media Center (311 Sherrod Library), ETSU at Kingsport Library, and ETSU at Bristol for students to view at the sites if they miss a class or need to review a class session.

Telecourse. Each spring and fall semester, the university offers a few professionally produced telecourses through WSJK, channel 2, and WKOP, channel 15, East Tennessee's public television stations. A limited number of telecourses are also available through video check-out. For public broadcast and video check-out, telecourses are intended for students who have past college experience, are self-motivated, and can learn in a more

independent learning environment than is required for regular courses. Although telecourses eliminate the requirement to attend weekly in-class lectures, the other regular academic requirements remain, e.g., textbooks, tests, and research papers. Students are supervised by a faculty member and attend scheduled meetings during the semester. An orientation for each course is held at the beginning of the semester. Videotapes of lessons are available in the Sherrod Library Media Center (311 Sherrod Library) for viewing from 8 a.m. - 10:30 p.m., Monday through Thursday, on Fridays from 8 a.m. - 6 p.m., on Saturdays from 10 a.m. - 6 p.m., and on Sundays from 2 p.m. - 10:30 p.m. Videotapes are also available at the ETSU at Kingsport library ((423) 392-8000) and ETSU at Bristol ((423) 844-6300).

Faculty Mentoring Center. The Faculty Mentoring Center (FMC) provides one-on-one mentoring to ETSU faculty members in the use of technology to improve instruction and through informal sessions provides opportunities for exploration of issues, trends, and strategies relating to online teaching and learning. The FMC utilizes the skills and expertise of approximately four ETSU faculty members each semester. These individuals work on projects that will support ETSU faculty and students throughout their teaching and learning experiences. These projects include modules on the appropriate use of multimedia in traditional and Internet-based instruction, training modules on web-based resources, and tutorials and resources to help students successfully access and succeed in web-based and web-enhanced courses. The FMC is located on the first floor (room 123) of the Sherrod Library on the main campus of East Tennessee State University, Johnson City, Tennessee. For more information about the FMC, please contact the Office of Distance Education ((423) 439-6809).

Internet and Web-Enhanced Courses. ETSU's Office of Distance Education licenses Blackboard, a course management system, and maintains servers for Internet/WWW and web-enhanced courses. ETSU policy states that a course is classified as an Internet/WWW course when more than 50 percent of the course is taught online. A web-enhanced course includes course materials available online that supplement instruction for traditional face-to-face instruction, telecourses, and live, interactive television courses.

Several graduate and undergraduate Internet/WWW-based courses are offered every semester.

Students should be mature and self-motivated and directed and feel comfortable working in an independent learning environment. Students should also have access to a computer and the Internet. A few Internet/WWW courses are conducted entirely online. For other Internet/WWW courses, faculty may require students to obtain permission to enroll, have mandatory orientations at the beginning of the semester, and/or require in-class meetings to conduct lab sessions, and for review and exams throughout the term. For each Internet course, faculty create a public page that includes a course description, prerequisites, objectives/goals, assignments, and other items that a student will need to know before enrolling. All Internet/WWW courses are password protected. Complete information is available online for students to access and navigate Internet/WWW courses.

All Distance Education Courses. Students should follow standard admission and registration procedures. For further information, see departmental listings in ETSU's Schedule of Classes or check online at <http://online.etsu.edu>.

NOTE: *The following four degree programs are designed for adult students with prior college credit. The majority of students enter with 60+ hours of previously earned credit and are currently in the workplace. Each program is individualized, based on each student's professional and personal goals and interests. Due to the unique nature of these programs, a four-year plan would not be meaningful or practical.*

**Bachelor of General Studies
(B.G.S.)**

Box 70659

Phone: (423) 439-4223

The School of Continuing Studies offers the Bachelor of General Studies (B.G.S.) to provide adult learners an alternative to traditional degree programs. A learner-centered program, the B.G.S. allows students to develop an individualized program of study specifically tailored to their learning needs.

The B.G.S. 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 B.G.S. 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 B.G.S. 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 B.G.S. program. Due to the unique nature of the B.G.S. 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 B.G.S. 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 B.G.S. 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. B.G.S. 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 B.G.S. 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 B.G.S. students but students may choose to pursue a minor as it fits their goals.
7. **Professional Field Experience.** Satisfactory completion of the B.G.S. 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 B.G.S. 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 (A.A.S.) degrees in technical fields the opportunity to obtain a baccalaureate degree by using more of their A.A.S. 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 A.A.S. 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 A.A.S. 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' A.A.S. 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 A.A.S. 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 A.A.S. 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 Development Concentration.** This consists of either: (1) an existing ETSU minor (Minors that require fewer than 27 hours must be complemented with approved electives to total 27 hours.) OR (2) a self-designed program. This option must include a total of 30 hours of upper-division coursework (3000/4000 level) in total degree program.
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 (BSIS 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 18 hours. The student chooses one course from each of the following six areas:

Area One: Administration and Supervision 3 Credit Hours

Principles of Administration
Public Administration
Principles of Management and Organization Behavior

Area Two: Organizational Systems 3 Credit Hours

Non-profit Organizations
Complex Organizations and Occupations
Organizational Theory and Behavior
Nursing Management
Organizational Theory and Development

Area Three: Teamwork and Organizational Relationships 3 Credit Hours

Organizational Communication
Small Group Communication
Integrated Corporate Communication
Psychology of Stress Management
Developing Volunteer Programs
Professional Development

Area Four: Statistical Methods 3 Credit Hours

Social Statistics
Applied Sociology
Introduction to Social Research
Basic Statistics for Behavioral Science

Area Five: Written Communications 3 Credit Hours

Technical and Professional Writing
Computers, Writing, and Literature
Professional Communication I
Professional Writing
Software and Technical Writing
Technical Communication
Written Professional Communication

Area Six: International Context 3 Credit Hours

International Relations
International Communication
Latin America: The Country and Peoples

International Law
Sociology of Mass Communication
International Health: Problems and Issues
International Political Economy
Mass Media and Cultures

3. **Concentrations.** Students will choose to complete one of the following 24-credit concentrations.

Information Technology 24 Credit Hours

Intro to Management Information Systems 3
Files/Operating Systems (Systems Analysis Methods) 3
Database Management 3
Network Design and Management 3
Software - Analysis and Design 3
Internship

or

Approved Coursework 6
Capstone 1-3

or

Organizational Leadership 24 Credit Hours

Management of Human Resources 3
Sociology of Occupations 3
Legal Environment 3
Interpersonal Communication 3
Psychology of Personality 3
Internship

or

Approved Coursework 6
Capstone 1-3

NOTE: Courses continue to be developed for the above, so titles only are listed at this time.

4. **Guided Electives.** The maximum total of electives is 33 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 2005-2006 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 (jointly with the Department of Family and Consumer Sciences), 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) sports management and leisure services. 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.

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.
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 FACS 2120 Foundations for Early Childhood with a grade of "C" or better.)
9. Complete CSCI 1100 Using Information Technology or pass proficiency exam.

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 achieve passing scores on an approved speech and hearing test and sign a notarized statement of character.

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 licensure analyst, room 321, Warf-Pickel Hall.

Requirements are established by the Tennessee State Board of Education for renewal of any type of license it issues. Such requirements include teaching experience and credit earned after issuance of the license.

The Tennessee State Board of Education has adopted regulations regarding the issuance of an initial license or adding an endorsement to such license for persons having completed a program in an out-of-state institution. The procedure for such applicants is prescribed by the State Board of Education. Application for initial licensing based on such programs should be made directly to:

Tennessee Department of Education
Office of Teacher Licensing
5th Floor, Gateway Plaza
710 James Robertson Parkway
Nashville, TN 37243-0377
(615) 532-4885.

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:

Clemmer College of Education
 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. Praxis Registration Bulletins are available at the University Testing Center, Room 428, Warf-Pickel Hall.

Following is a list of the teacher education programs leading to initial licensure that East Tennessee State University is approved to offer:

Education Licensure

Elementary Education	K-6
English	7-12
Foreign Language (<i>French, German, Spanish</i>)	7-12
Mathematics	7-12
Psychology	9-12
Science (<i>Biology, Chemistry, Physics, Earth Science</i>)	7-12
Social Studies (<i>History, Gov./Pol. Sci., Geography, Economics</i>)	7-12
Sociology	9-12
Speech Communication	7-12
Vocational Consumer Homemaking	5-12
Technology Engineering	5-12
Visual Arts	K-12
Music Education (<i>Vocal, Instrumental</i>)	K-12
Theatre	K-12
Special Education	
Modified	K-12
Comprehensive	K-12
Preschool/Early Childhood	PreK-3
Speech/Language Pathology (<i>master's program, only</i>)	PreK-12
Health	K-12
Physical Education	K-12
Early Childhood Education	PreK-3
School Social Worker	PreK-12

In addition to the above programs for initial licensing, the college offers "add-on" endorsements in many of these areas, occupational home economics, and reading. An appropriate initial license must be verified in order to apply for an "add-on". Consult the licensure analyst for information about specific programs.

The college also offers extensive graduate work, including school licensing programs in counseling 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 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:	
ARTA 2010	Art History Survey I	
ARTA 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:		
SOAA 1020	Introduction to Sociology	
SOAA 1240	Introduction to Cultural Anthropology	
SOAA 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, CUA1, 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 and master of education degrees in early childhood, school counseling, marriage and family therapy, community agency counseling, and special education.

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. Laurelle Phillips
Phone: (423) 439-7903
email: phillipl@etsu.edu**

The Department of Human Development and Learning in the Clemmer College of Education and the Department of Family and Consumer Sciences in the College of Business and Technology offer 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 (0-9), 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
FACS 2110	Infant/Toddler/Child Development	3
FACS 2120	Foundations of Early Childhood Development	3
FACS 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
FACS 2110 Infant/Toddler/Child Development	3
FACS 2120 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
FACS 3140	Guiding Young Children	3
Semester Total		15

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

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 Family and Consumer Sciences and Human Development and Learning. 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 30 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
FACS 2110	Infant/Toddler/Child Development	3
FACS 2120	Foundations of Early Childhood	3
FACS 3140	Guiding Young Children	3
SPED 3322	Early Intervention Strategies for the Exceptional Child	3

Concentration in Early Childhood (ECEG) 21 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

FACS 4537	Field Studies	3
ECED 4570	Practicum in Early Childhood	3

Minor Requirements 18-27
 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
FACS 2110	Infant/Toddler/Child Development	3
FACS 2120	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
Semester Total		15

Second Semester	Credit Hours	
HIST 2020	The United States Since 1877	3
ECED 2010	Healthy and Safe Environments	3
FACS 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
FACS 4537	Field Studies	3
ECED 4010	Observing and Assessing Young Children	3
Minor Requirement		3
Elective		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

FACS 2110	Infant/Toddler/Child Development	3
FACS 2120	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	
FACS 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.

**Human Services
(HSER)**

Program Coordinator: Steve Cockerham

Phone: (423) 439-4189

email: cockerha@etsu.edu

The program in human development and learning leads to the Bachelor of Science degree (B.S.). It is designed to provide an applied behavioral science background for persons interested in working with people. It is also suitable for individuals planning to seek licensure as counselors or educators and for a wider audience including parents and others who seek a scientific understanding of how humans develop and learn.

Study in human development and learning can serve as a foundation for graduate study in human service fields such as teaching, counseling, and marriage and family therapy. Although it does not lead to professional licensure, it can serve as a knowledge base for careers in human service, human resource development, and jobs in a variety of public and private sector organizations. Also, it can serve as a second area of academic emphasis for individuals majoring in other fields of study.

Students may choose a program of study that includes a minor and electives (at least 120 hours) which leads to the Bachelor of Science in Human Development and Learning (HDLC).

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).

The following minors and/or second majors are suggested options:

Advertising	Occupational Health & Safety*
Athletic Coaching*	Philosophy
Broadcasting	Political Science
Criminal Justice	Public Health
Early Childhood Dev.	Psychology
English	Social Work*
Environmental Health*	Sociology
History	Special Education
Journalism	Speech
Management*	Theatre
Marketing*	Minors only*

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
	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 30 Credit Hours

PSYC 1310	Introduction to Psychology	3
PHIL 2030	Practical Reasoning	3
FACS 3110	Parent/Child/School Relations	3
HDAL 3310	Educational Psychology or	
PSYC 4320	Abnormal Psychology	3
PEXS 3032	Psychomotor Dev. of Children	3
HDAL 4260	Learning in Human Development	3
HDAL 4010	Managing Child Behavior	3

(prerequisites: PSYC 1310 and HDAL 2310 or HDAL 2320)
 HDAL 4011 Developmental Psychology II 3
 (prerequisites: PSYC 1310 and HDAL 2310 or HDAL 2320)
 HDAL 4666 Cultural Influences in Development 3
 (prerequisites: PSYC 1310 and HDAL 2310 or 2320)
 HDAL 4950 Research in Learning and Development 3
 (prerequisite: PSYC 1310 and MATH 1530 or PSYC 2810)

Minor Requirements 18-27 Credit Hours
Electives 19-28 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
FACS 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 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 CUA1 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 4-10 Credit Hours

Students majoring in
 Biology, Chemistry, Physics, Geography, French, German,
 Spanish, English, History, Economics, Political Science,
 Mathematics, Speech, and Theatre 7 Credit Hours
 CUA1 4417 Secondary Curriculum & Methodology 3
 CUA1 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

**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 Indiv. 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) 439-5259

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 Physical Education, Exercise Science, 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.

The Exercise Science minor is an introduction to exercise, fitness, and wellness. This minor is suggested for the student whose major is in a physical science, health, or medical related concentration, but is a viable option for all eligible students. The primary emphasis is on the effects of exercise on various body systems.

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
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
Communication: Oral Communication*	.....	3

* 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 20 Credit Hours

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 20 Credit Hours

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 35 Credit Hours

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
CUAI 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
PEXS 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 3695	Sports Nutrition	3
PEXS 4061	Exercise Fitness Testing	3
PEXS 4062	Cardiovascular Testing	3
PEXS 4270	Kinesiology & Neuromuscular Physiology	3
PEXS 4467	Metabolic Aspects of Exer. & Disease	3
PEXS 4620	Exercise Physiology II	3
PEXS 4630	Exercise Science Internship I	6
PEXS 4631	Exercise Science Internship II	6
PEXS 4977	Exercise Management	3
FACS 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
PEXS 3500	Dance as Human Experience	3
SPCH 1300	General Speech or	3
SPCH 2300	Public Speaking	3
HSCI 3000	Human Anatomy	4
FACS 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
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
Communication: Oral Communication	.....	3

* 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 32 Credit Hours

PHED 1130	Fitness for Life	2
PHED 2XXX	Lifetime Activity	1
SALM 3220	Facility and Event Management	3
SALM 3210	Practica in SALM I	1
SALM 3211	Practica in SALM II	1
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 4250	Internship in SALM	12
PUBH 2030	First Aid and Emergency Care	3

Sport Management Concentration 18 Credit Hours

SALM 3200	Introduction to Sport Management	3
MGMT 3000	Organizational Management	3
SALM 3225	Marketing Strategies & Public Relations in Sport Management	3
SALM 4205	Issues and Trends in Sport Management	3
SALM 4230	Fund-Raising in Sports	3
ACCT 2010	Principles of Accounting I	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) 32 Credit Hours

PHED 1130	Fitness for Life	2
PHED 2XXX	Lifetime Activity	1
SALM 3220	Facility Planning/Event Management	3
SALM 3210	Practica in SALM I	1
SALM 3211	Practica in SALM II	1
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 4250	Internship in SALM	12
PUBH 2030	First Aid and Emergency Care	3

Park and Recreation Management 18 Credit Hours

SALM 3100	Introduction to Leisure Services	3
SALM 3105	Programming & Leadership in Leisure Services	3
SALM 3110	Cultural and Natural Resources	3
SALM 3117	Recreation for Special Pop.	3
SALM 3120	Outdoor Recreation Skills	3
SALM 3130	Natural Resource Management	3

Choose ONE of the following TRACKS 9 Credit Hours

Recreation Administration

SALM 3225	Marketing Strategies and Public Relations	3
	in Sport Management	
ACCT 3010	Financial Accounting I	3
PSCI 2610	Introduction to Public Administration	3
Total		9

Outdoor Leadership

SCED 4020	Wildlife Conservation	3
ENVH 1800	Human Ecology	3
GEOG 3040	Conservation of Natural Resources	3
Total		9

Guided Electives 12 Credit Hours

Select from the following:

PEXS 2420	Lifeguarding	2
PEXS 2430	Water Safety Instructor	3
PEXS 3095	Teaching Sports Skills I	3
PEXS 4001	Teaching Sports Skills II	3
PEXS 4150	Coaching Special Olympics	3
SALM 3115	Wilderness First Response	3
SALM 3125	Camp Leadership	3
SALM 4127	Rocky Mountain Experience	3
SALM 4117, 4118, 4119	Outdoor Leadership I, II, III	3
SALM 4107	Alpine Tower Leadership	3
MKTG 3200	Principles of Marketing	3
PSYC 4320	Abnormal Psychology	3
ARTA 2200	Basic Photography	3
URBS 4087	Rec/Tourism Plan	3
SALM 4137	Wilderness Ed. Asso. Stew.	3
ASTR 1010	Astronomy I	3

Electives 8 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
MATH (See General Education Core)	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
PEXS 3500 Dance as Human Experience	3
Science	4
SALM 3210 Practica in SALM I	1
Semester Total	14

Second Semester	Credit Hours
SALM 3225 Public Relations & Marketing	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	Public Relations and Marketing	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

Exercise Science Minor 18 Credit Hours

PEXS 3610	Exercise Physiology I *	3
PEXS 4061	Exercise Fitness Testing	3
PEXS 4270	Structural Kinesiology	3
PEXS 4467	Metabolic Aspects of Nutrition & Exercise	3
PEXS 4620	Exercise Physiology II *	3
PEXS 4977	Exercise Management for Persons with Chronic Diseases and Disabilities	3

* Prerequisites: HSCI 3000 Human Anatomy and HSCI 3020 Human Physiology

GRADUATE

Graduate Study – The Department of Kinesiology, Leisure and Sport Sciences offers a Master of Arts degree with concentrations in K-12 Teacher Education, Exercise Physiology and Performance, and Sport Management. Additional information on the Master of Arts degree is available in the Graduate Catalog.

Division of Health Sciences

In March 1988, the Tennessee Board of Regents approved the expansion of the Division of Health Sciences, which includes the College of Medicine, the College of Nursing, College of Pharmacy, and the College of Public and Allied Health. A broad range of health-related professional degrees are offered through studies in this division of East Tennessee State University. The primary objective of the Division of Health Sciences is to provide more health care providers and better access to health services in Northeast Tennessee. In addition to the traditional programs offered in each college, an innovative interdisciplinary rural track initially provided by the W. K. Kellogg Foundation, is available.

A detailed description of each program offered in the College of Nursing and the College of Public and Allied Health is presented on the following pages. A general description of the College of Medicine is also presented and detailed information is provided in the College of Medicine Catalog.

In addition to the programs in the Division of Health Sciences, the Masters of Science in Clinical Nutrition degree is offered by the Department of Family and Consumer Sciences in the College of Business and Technology. An approved program in dietetics at the baccalaureate level is also available through that department.

College of Medicine

Accredited by: Accreditation Council for Continuing Medical Education, Accreditation Council for Graduate Medical Education, Liaison Committee on Medical Education, National Accrediting Agency for Clinical Laboratory Sciences

The James H. Quillen College of Medicine at East Tennessee State University was established by act of the Tennessee General Assembly in March 1974 and graduated its first class in 1982. The primary purpose of the College of Medicine is to provide more physicians and a full range of medical care in Northeast Tennessee and the surrounding region. Through a diversified program of education, the college seeks to provide well-qualified students with the opportunity to acquire a sound basic education in medicine and to foster the development of lifelong habits of scholarship and service. The college emphasizes primary care as a major educational objective.

Another important role for the College of Medicine is the advancement of knowledge through research. Investigations include biologically oriented studies, studies related to cultural and behavioral aspects of medicine, methods for the delivery of health care, and the medical education process. The college is responsible for the development of graduate education to produce practitioners, teachers, and investigators, both through clinical residency programs and advanced degree programs in the basic medical sciences. The College of Medicine actively produces and participates in programs of continuing medical education aimed at maintaining and improving the competence of those professionals engaged in caring for patients.

The College of Medicine includes the departments of Anatomy and Cell Biology, Biochemistry, Microbiology, Pharmacology, Physiology, Family Medicine, Internal Medicine, Obstetrics/Gynecology, Pathology, Pediatrics, Psychiatry, and Surgery. Also included are the sections of Anesthesiology, Radiology, and Medical Education, the Library and Learning Resources Center, the Office of Continuing Medical Education, and the division of Forensic Pathology.

The College of Medicine does not offer any courses or degree programs at the undergraduate level. It does cooperate with the College of Arts and Sciences in presenting a combined premedical-medical program. This program, which accepts students after one year of undergraduate study, allows a student to combine arts and sciences with medical college to achieve both an undergraduate and medical degree. No time savings in overall education is realized. A student in this program must have a minor or major in humanities studies. For further information, please contact the preprofessional advisor in the College of Arts and Sciences or the executive associate dean for Academic Affairs in the College of Medicine. Information pertaining to graduate biomedical science programs in the College of Medicine is available in the ETSU Graduate Catalog. Information concerning the medical curriculum of the College of Medicine is presented in the College of Medicine Catalog.

For a medical school catalog or additional information please write: Office of Student Affairs, James H. Quillen College of Medicine, East Tennessee State University, P.O. Box 70580, Johnson City, TN 37614-1708, Telephone: (423) 439-2033.

College of Nursing

Box 70617

e-mail: admitnur@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 in nursing education, leadership, scholarship, and innovative 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 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 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 available 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 (1-888-310-4650).

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: admitnur@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.

Maintenance and Progression

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.

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 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 Academic Programs and Student Services.

If a student drops any of the following courses – ALNU 3030, FCNU 3070, FCNU 3080, ALNU 4040, ALNU 4050, or PMNU 4060 – the student must also withdraw from the corresponding clinical course (ALNU 3031, FCNU 3071, FCNU 3081, ALNU 4041, ALNU 4051, 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 written policies and clinical course requirements of the College of Nursing, 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 Handbook. Additional information may be required. 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, interdisciplinary 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.

Students entering ETSU as pre-nursing in 2007-2008 will follow the curriculum listed below. Students enrolled in the nursing major prior to 2006-2007 will follow transition plans developed by the College of Nursing to ensure timely completion of the degree.

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

* See the General Education Core Requirements.

Additional Nursing Requirements 4 Credit Hours

HSCI 2230/2231	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 & Childbearing Families Pract. ...	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
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 Psyc. Dis. 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	.....
Semester Total		13

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 2230/2231	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
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

Note: The curriculum has been revised for incoming Spring 2007 classes. Transition plans are in place for present classes. Please consult with the nursing advisors as to program plans.

Advanced Placement for R.N. and L.P.N. Students

Eligible graduates of L.P.N., diploma, and associate degree nursing programs who are seeking additional study in nursing may be given advanced standing by articulation, comprehensive examination, and/or validation processes. Candidates should schedule an academic advising session with a College of Nursing advisor to plan their program of study.

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. 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 R.N. in Tennessee or a compact state. Graduates of diploma and non-accredited programs must also have a minimum of 35 credit hours of specified courses to be eligible for the major. R.N. students are encouraged to schedule an appointment with a College of Nursing advisor to develop a specific plan of study. Weekend, online, part-time, and weekday full-time programs may be available. Classes may be available in Johnson City, Kingsport, Bristol, Morristown, Sevierville, and Cleveland, Tennessee.

Advanced placement and support services for the eligible L.P.N. are also available. Information may be obtained from the College of Nursing Office of Student Services.

East Tennessee State University students are required to obtain at least 50 credit hours at a senior level institution. Consult with an advisor for details about this requirement.

Accelerated B.S.N. Track for Second-Degree Students

An accelerated schedule for program completion is available for eligible second-degree B.S.N. students. Interested students should contact the College of Nursing Office of Student Services.

Accelerated B.S.N. students are expected to follow the curriculum as outlined through the Office of Academic Programs and Student Services. Failure of a course in the nursing curriculum will cause students to be switched from the accelerated program curriculum to the traditional B.S.N. curriculum.

College of Public and Allied Health

Box 70623

Phone: (423) 439-4243

Mission Statement

The mission of the College of Public and Allied Health is to integrate teaching, research, and service to create an environment conducive to quality education; to provide fundamental human and scientific understanding with applied experience necessary for lifelong learning in the health professions; and to promote a spirit of cooperation among members of the college.

Goals

1. To develop a strong sense of community among students, staff, and faculty within the college.
2. To continually strive to improve teaching, learning, and critical thinking skills within the college.
3. To provide students with experience in current technologies and the skills necessary to adapt to a changing environment.
4. To promote appreciation and sensitivity to the social, mental, intellectual, physical, and spiritual factors influencing the health and well-being of diverse populations.
5. To contribute to basic knowledge and practice in the health sciences and health professions through a strong research program involving faculty, graduate students, and undergraduate students.
6. To apply the expertise of college members in providing services which improve the health and intellectual environment in the Northeast Tennessee and southern Appalachian Region.
7. To foster multidisciplinary approaches to health promotion and the prevention, control, and treatment of infirmities.

Strategic Intent

To provide graduates of choice for the health professions.

**Departments and Programs
College of Public and Allied Health**

Departments located on Johnson City Campus:

Allied Health Sciences	Environmental Health
Communicative Disorders	Health Sciences
Dental Hygiene	Public Health

Department located on VA Campus, Bldg. 2:

Physical Therapy

Clinics located at VA Campus, Main Hospital, and Outpatient Clinic

Programs in the Dept. of Allied Health Sciences–Elizabethton Campus:

- Allied Health Leadership
- Cardiopulmonary Science (Respiratory Care)
- Radiography
- Phasia Research Clinic (Communicative Disorders)

**Degrees and Majors Offered by Departments
College of Public and Allied Health**

Department	Major	Concentrations	Degrees
Allied Health Sciences	ALSC	AHLD	B.S.
		CPSC	
		RADG	
		DHYG	
Allied Health Science			M.S.
Health Sciences	HSCI	Medical Technology	B.S.
		Microbiology	
Communicative Disorders	AUDI	*MBIM	M.S.
			Au.D.

Environmental Health	ENVH	Environmental Health Practices Occupational Health and Safety Administrative Program Specialist Program	B.S.E.H. M.S.E.H.
Physical Therapy	PHYT		D.P.T.
Public Health	PHBS	Community Health Health Services	B.S.
Administration		Health Education School Health	
	PUBH	Community Health Public Health Administration	M.P.H.

**Offered in conjunction with Biological Science.*

Admission Requirements

Admission to some programs in the College of Public and Allied Health 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 Public and Allied 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.

Special Programs

There are two types of special programs within the College of Public and Allied Health. Graduates of associate degree programs may designate their health technology area as their minor, complete the additional General Education Requirements and the courses required for a baccalaureate degree major, and receive a bachelor's degree in a content area which offers a university-approved program.

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. The student may elect audiology or speech-language pathology as the area of concentration. A clinical Doctorate in Audiology (Au.D.) is also available.

- The Department of Environmental Health offers study for the Master of Science in Environmental Health degree. The student may elect the administrative concentration or the specialist concentration.
- The Department of Allied Health Sciences offers study for the Master of Science degree in Allied Health.
- The Department of Public Health offers the Master of Public Health degree with area concentrations in community health and public health administration.
- 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/cpah/physther/index.htm.
- Graduate Certificates in gerontology and health administration are offered in conjunction with other academic units on campus. Information about these programs is available from the dean's office.
- The Department of Health Sciences offers study for the Master of Science degree in Microbiology in conjunction with Biological Sciences.

Dental Hygiene Advisement

The College of Public and Allied Health offers advisement for students pursuing dental hygiene careers. A dental hygiene program is offered within the college. Students considering dentistry as a career should seek advisement with the pre-dental advisor.

Students interested in the Dental Hygiene programs should direct inquiries to:

Charles Faust, R.D.H., Ed.D.
Admissions Chair, ETSU Box 70690
Johnson City, TN 37614
(423) 439-4497; faust@etsu.edu

Department of Allied Health Sciences (ALSC)

Box 70573 (AHLD, CPSC, & RADG)
Box 70690 (DHYG)

Phone: (423) 547-4900
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. Four concentrations are available: Allied Health Leadership, Cardiopulmonary Science, Dental Hygiene, and Radiography.

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 concentration has 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, and Radiography. The program correlated didactic 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 **April 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 (AHLD)

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. Traditionally, A.A.S. graduates find that many of their allied health credit hours do not 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	2020/11	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	2230/31	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	3
PUBH 3080 Introduction 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
Junior Year**

First Semester	Credit Hours
ALHE 3010 Allied Health Professionals	3
PUBH 2100 Health Care Systems	3
PUBH 2030 First Aid & Emergency Care	3
PUBH 3080 Intro to Epidemiology	3
Humanities/Fine Arts Elective*	3
Social/Behavioral Science Elective*	3
Semester Total	18
Second Semester	Credit Hours
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

First Semester	Credit Hours
DHYG 4010 Teaching Strategies	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	Credit Hours
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
(CPSC)**

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 Practitioners 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 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 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.

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 Public and Allied Health
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/cpah/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	1
DHYG 4010	Teaching Strategies	3
DHYG 4020	Dental Hygiene Seminar III	1
DHYG 4021	Dental Hygiene Clinical Practice III	4
DHYG 4030	Anesthesia & Pain	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 12 Credit Hours

HSCI 2230	Introduction to Microbiology	4
CHEM 1030	Introduction to Chemistry Survey	4
PEXS/PHED		1
FACS 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
PEXS/PHED	Physical Education	1
Semester Total		18-19

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 Lecture & Lab	4
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

FACS 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 2050	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 3110/11	Dental Materials Lecture and Lab	3
DHYG 3120	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		15

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

**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

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 course 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	4
	Lecture and Lab	
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	3
	Assessment	
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 and 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

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, 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 program 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

**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 practice 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

I. Concentration: Environmental Health

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	3
	Planning and Administration	
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

First Semester	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

Second Semester	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

First Semester	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	

Second Semester	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

First Semester	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	

Second Semester		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

Summer Semester		Credit Hours
* ENVH 4080	Environmental Health Practice	3
Semester Total		3

* Offered in summer only

Senior Year

First Semester		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

Second Semester		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

II. 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
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

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: ENVH12989, ENVH13989, or ENVH14989 will substitute for ENVH4080.

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
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		Credit Hours
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

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 Response and Disaster Management. This minor is offered jointly with the Department of Public Health. Requirements for completion of this minor are listed in the catalog in the Department of Public 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) 439-4485

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. Two concentrations are available, Microbiology with a minor and Microbiology without a minor. 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
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 3022	Human Physiological Systems	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 Hours

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.

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. Further information on graduate programs is contained in the Graduate Catalog.

**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/cpah/physter/index.htm.

**Department of Public Health
(PUBH)**

Box 70674 Phone: (423) 439-4332

The Bachelor of Science degree through the Department of Public Health prepares students for careers as public health professionals. There are currently four program concentrations offered - Community Health; Health Care Administration; Health Education; and School Health. Through these concentrations, students gain the knowledge and skills necessary to become effective as health educators, administrators and community health specialists who are capable of developing and implementing health programs for a variety of health care settings.

Students completing the community health, health education, or school health education program concentrations are eligible to sit for the national credential exam - Certified Health Education Specialist (C.H.E.S.). Students completing the health care administration option 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.

The department participates in an approved teacher education program (school health concentration). These students can seek licensure by the Tennessee State Board of Education. Please review the Department of Curriculum and Instruction (CUAI) section of this catalog for teacher education admission and professional education requirements.

TBR General Education Requirements: 41 Credit Hours

ENGL 1010	Critical Reading & Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
SPCH 2320	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*	.....	3
Fine Arts*	.....	3
ECON 2210	Principles of Economics I	3
PHIL 2640	Science and the Modern World	3
PSYC 1310	Introduction to Psychology	3

**See General Education Core Requirements.*

Public Health Core 48 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 3200	Health Services Administration	3
PUBH 3080	Principles of Epidemiology	3
PUBH 4030	Community Health	3
PUBH 4220	Family Health and Human Sexuality	3
PUBH 4607	Gerontology and Health	3
PUBH 4457	Emerging Technology for Health Professions ..	3
PUBH 4927	Cultural Competencies and Spirituality in Health Care	3
PUBH 4850*	Field Experience or	
CUAI 4580	Student Teaching	12

I. Community Health Concentration: 15 Credit Hours

FACS 2420	Principles of Nutrition	3
PUBH 3120	Principles & Pract. of Public Hlth Ed.	4
PUBH 4060	Comm. Org. for Hlth Ed Programs	3
PUBH 4357	Thanatology	3

Electives (select at least one of the following)

PUBH 2120	School Health	3
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

II. Health Care Admin. 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

III. Health Education Concentration: 15 Credit Hours

FACS 2420	Principles of Nutrition	3
PUBH 3120	Prin & Pract of Pub Hlth Educ.	4
PUBH 4007	Principles & Practices of Patient Education	3
PUBH 4357	Thanatology	3

Electives (select at least one of the following)

PUBH 2120	School Health Education K-12	3
PUBH 3010	Accident Prevention	3
PUBH 3220	Health Services Planning	3
PUBH 3500	Consumer Health Education	2
PUBH 3950	Public Health Research	3
PUBH 4060	Community Org for Health Ed Programs	3
PUBH 4937	Stress Management	3

IV. School Health Concentration: 15 Credit Hours

FACS 2420	Principles of Nutrition	3
PUBH 2030	First Aid and Emergency Care	3
PUBH 2120	School Health Education K-12	3
PUBH 3120	Prin & Pract of Pub Hlth Educ.	4
PUBH 4007	Principles & Practices of Patient Education	3

Electives (select at least one of the following)

PUBH 3010	Accident Prevention	3
PUBH 3200	Health Services Planning	3

PUBH 3500	Consumer Health	2
PUBH 3950	Public Health Research	3
PUBH 4007	Principles & Practices of Patient Education	3
PUBH 4060	Community Org for Health Ed Programs	3
PUBH 4937	Stress Management	3

Minor 18 Credit Hours
Total Hours Required for Degree 120 Credit Hours

Licensure (K-12) – Consists of 31 hours and includes the following courses: Lifetime Behaviors for Healthy Living PUBH 1010; Health Sciences HSCI 2010-11; Health Sciences HSCI 2020-21; and/or Health Sciences HSCI 2230-31; First Aid and Emergency Care PUBH 2030; Principles of Nutrition FACS 2420; School Health PUBH 2120; Environmental Sanitation ENVH 3040; Consumer Health PUBH 3500; Thanatology PUBH 4357; Gerontology PUBH 4607; and Community Health PUBH 4030.

Public Health Minor

Public Health Minor Requirements	18
PUBH 1010 Lifetime	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 Public Health offers graduate courses for an M.P.H. degree. Further information on the graduate program is contained in the Graduate Catalog.

**Women’s Studies
(WMST)**

Box 70667 Phone: (423) 439-7571
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.

Women’s Studies Major

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
	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 and Behavioral Sciences*	6

*See General Education Core Requirements.

Women’s Studies Major Requirements 36 Credit Hours

Bachelor of Arts Requirements* 9 Credit Hours

Foreign Language	6
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 Credits

Course Requirements for Women’s Studies Majors

WMST 2010	Introduction to Women’s Studies ^W	3
WMST 2020	Women in Global Perspective ^T	3
WMST 3330	Feminist Thought and Practice ^W	3
WMST 4500	Senior Capstone ^O	3

^O=Oral Intensive; ^W=Writing Intensive; ^T=Technology Intensive

One of the following Women and Cultural Production courses:

ARTA 4957	Special Topics: Women Artists & Their Work	3
ENGL 3500	Women Authors	3
ENGL 4087	Themes in Women’s Literature	3
ENGL 4290	Film Genres: Women in Film	3
PHIL 3110	Philosophy 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 U.S. Settlement to 1945	3
HIST 4837	American Women Since World War II	3
HIST 4956/7	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
ELP/AMGMT 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
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
SOAA 3030	Gender and Society	3
SOWK 3030	Cultural Diversity ¹	3
SPCH 4200	Gender and Communication	3
WMST 4950	Issues in Women’s Movement	3

Women’s Studies Emphasis courses (max of two)²

Other approved special topics courses³

¹ Students can count either HDAL Understanding Cultural Diversity or SOWK 3030 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 WSSC, in consultation with instructors. Limit of 2.

³ With approval of the Women’s Studies Committee (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
WMST 2020	Women in Global Perspective or	
WMST 3330	Feminist Thought and Practice	3
Approved Electives (5 courses)*		15

* Three electives must form a course cluster that has been designed in consultation with a Women's Studies advisor.

Women's Studies Minor Electives 15 Credit Hours

WMST 2020	Women in Global Perspective or	
WMST 3330	Feminist Thought and Practice	3
WMST 4500	Senior Capstone	3

Women and Cultural Production

ARTA 4957	Women Artists and Their Work	3
ENGL 3500	Women Authors	3
ENGL 4087	Themes in Women's Literature	3
ENGL 4290	Film Genres: Women in Film	3
PHIL 3110	Philosophy of Feminism	3

Women's History

HIST 4237	Women in the Ancient World	3
HIST 4247	History of Women in U.S. Settlement to 1945	3
HIST 4837	American Women Since World War II	3
HIST 4956	Women in Appalachia	3

Civic Engagement

SPCH 3346	Speaking for Social Change	3
WMST 4080	Women's Studies Internship	3
ELPAMGMT 4460	Leadership Studies	3

General 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
SOAA 3030	Gender and Society	3
SOWK 3030	Cultural Diversity ¹	3
SPCH 4200	Gender and Communication	3
WMST 4950	Issues in Women's Movement	3
Women's Studies Emphasis courses (max of two) ²		
Other approved special topics courses ³		

¹ Students can count either HDAL Understanding Cultural Diversity or SOWK 3030 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 WSSC, in consultation with instructors. Limit of 2.

³ With approval of the Women's Studies Committee (WSSC), additional special topics or other unique courses may be counted toward the major.

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
Oral Communication		3
WMST 2010	Introduction to Women's Studies ^W	3
Semester Total		15

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 ^T	3
Semester Total		16

Sophomore Year

Fall 2

Minor/General Education Elective		3
HIST 2020	The United States Since 1877	3
Fine Arts		3
Natural Sciences		4
WMST 3330	Feminist Thought and Practice ^W	3
Semester Total		16

Spring 2

Social/Behavioral Science		3
Non-United States History		3
Humanities		3
Minor/General Education Elective		3
Women's Studies Cultural Production Elective		3
Semester Total		15

Junior Year

Fall 3

Social/Behavioral Sciences		3
Minor/General Education Elective ^W		3
Minor/General Education Elective ^O		3
Women's Studies History Elective		3
Women's Studies General Elective		3
Semester Total		15

Spring 3

Minor/General Education Electives		9
Women's Studies General Elective		3
Women's Studies General Elective		3
Semester Total		15

Senior Year

Fall 4

Literature		3
Minor/General Education Electives		5
WMST 4500	Senior Capstone ^O	3
Women's Studies General Elective		3
Semester Total		14

Spring 4

Minor/General Education Electives		5
Women's Studies Engagement Elective		3
Women's Studies General Elective		3
Semester Total		14

Total Hours Required for B.A. in Women's Studies 120

^O=Oral Intensive; ^W=Writing Intensive; ^T=Technology Intensive

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 (423) 439-4302	duncanm@etsu.edu	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 (423) 439-6590	lawsonj@etsu.edu	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 (423) 439-6148	odell@etsu.edu	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 (423) 439-4703	powers@etsu.edu	Art, Biological Sciences, Chemistry, Clinical Nutrition, English, History, Mathematics, Microbiology, Communications (Professional), Sociology, Psychology, Technology, Liberal Studies, and two (2) certificate programs: Archival Studies and Emerging Technology
Shella Bennett (423) 439-4708	bennetsg@etsu.edu	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 Description

Code	Course Description	Code	Course Description
ACCT	Accountancy	HSCI	Health Sciences
ADVR	Advertising	HUMT	Humanities
AFAM	African and African American	IDPH	Interdisciplinary Public Health
ALHE	Allied Health	INTL	International Studies
ALNU	Adult Nursing	JAPN	Japanese
APST	Appalachian Studies	JOUR	Journalism
ARTA	Art and Design	LANG	Foreign Languages
ASTR	Astronomy	LATN	Latin
BADM	Business Administration	LGST	Legal Studies
BASD	Applied Science	MATH	Mathematics
BGSD	General Studies	MCOM	Mass Communications
BIOL	Biological Sciences	MEDA	Educational Media/Technology
BLUE	Bluegrass, Old Time, and Country Music Minor	MGMT	Management
BNKC	Banking	MKTG	Marketing
BSIS	Interdisciplinary Studies	MSCI	Military Science
BSPS	Professional Studies	MUSC	Music
CDIS	Communicative Disorders	PEXS/PHED	Physical Education, Exercise and Sport Sciences
CHEM	Chemistry	PHIL	Philosophy
CJCR	Criminal Justice and Criminology	PHYS	Physics
CPSC	Cardiopulmonary Science	PHYT	Physical Therapy
CSCI	Computer and Information Sciences	PMNU	Professional Roles/Mental Health Nursing
CUAI	Curriculum and Instruction	PSCI	Political Science
DHYG	Dental Hygiene	PSYC	Psychology
DIGM	Digital Media	PUBH	Public Health
DSPW	Developmental Composition	PUBR	Public Relations
DWPM	Developmental Math	RADT	Radiologic Technology
DSPR	Developmental Reading	READ	Reading
DSPS	Developmental Study Skills	RELI	Religious Studies
ECED	Early Childhood Education	RTVF	Radio/Television/Film
ECON	Economics	SALM	Sports and Leisure Management
EDFN	Foundations in Human Development and Learning	SCED	Science Education
ELPA	Educational Leadership and Policy Analysis	SOAA	Sociology and Anthropology
ENGL	English	SOWK	Social Work
ENTC	Technology	SPAN	Spanish
ENVH	Environmental Health	SPCH	Speech
FACS	Family and Consumer Sciences	SPED	Special Education
FCNU	Family/Community Nursing	SRVL	Service-Learning
FNCE	Finance	SURV	Surveying and Mapping Science
FREN	French	THEA	Theatre
GEOG	Geography	UHON	University Honors
GEOL	Geology	URBS	Urban Studies
GERM	German	WMST	Women's Studies
HDAL	Human Development and Learning	RODP	Regents Online Degree Program Courses
HIST	History		

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.

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.

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.

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.

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.

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**

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.

ACCT 3410 Federal Income Taxes (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.

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.

ACCT 4018 Senior Honors Seminar (3 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 4127/5127 Cost Accounting II (3 credits)—*Prerequisite(s):* ACCT 3110. A study of cost accounting emphasizing managerial cost information for forecasting, planning, control, and behavioural 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.

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.

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.

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.

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 (3 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	(3 credits)
ACCT 5020	Seminar in Financial Accounting II	(3 credits)
ACCT 5050	Health Care Accounting	(3 credits)
ACCT 5100	Managerial 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	Not-For-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 2000 Seminar (3 credits)—An integration of allied health theories, principles, procedures, and equipment presented throughout the declared area of concentration. Reinforcement of basics will be stressed. Current developments and innovations will be included.

ALHE 2010 Introduction to Allied Health (2 credits)—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 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)—*Prerequisite(s):* *Permission of instructor.* 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)—*Prerequisite(s):* *ALHE 4060 or permission of instructor.* This course provides a historical perspective 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.

**Adult Nursing
ALNU**

ALNU 1100 Basics of Patient Care (4 credits)—*Prerequisite(s):* *Permission of instructor.* This course is designed to expand the knowledge and skills of Certified Nursing Assistants and introduce them to a professional nursing program.

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.

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.

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.

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.

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.

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.

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.

ALNU 4010 Gerontological Nursing (3 credits)—*Prerequisite(s): FCNU 3051.* Provides additional study of delivery of nursing care to both the healthy and ill older client. Includes discussion of nursing implications of theories of aging, psychosocial and physiological changes in aging, and health issues relevant to elder care. Emphasis on increasing repertoire of critical thinking and nursing interventions to maximize functional health status of the aging client. *Elective*

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.

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.

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.

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.

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.

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.

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*

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*

ALNU 4900 Nursing Independent Study (1-3 credits)

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*

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 Management: Young & Middle Adults	(2 credits)
ALNU 5012	Life Span Assessment & Clinical Management: Young & Middle Adult Practicum	(3 credits)
ALNU 5013	Life Span Assessment & Clinical Management: Older Adults	(2 credits)
ALNU 5014	Life Span Assessment & Clinical Management: Older Adult Practicum	(3 credits)
ALNU 5016	Pathophysiology for Nursing Diagnoses and Interventions	(3 credits)
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 Adult in Structured Settings	(3 credits)
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 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 behaviour, tool use, play, communication, and protoculture.

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.

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 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 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 4957/5957 Appalachian, Scottish, and Irish Studies (3-6 credits)—This course explores the relationship between Appalachia and its Scottish and Irish heritage. The course includes lectures by scholars from Edinburgh University and covers a wide range of topics including oral and written literature, language, history, music, folklore, and others concerned with traditional Scottish and Irish cultural influences upon Appalachia. Also included are several field trips to various cultural locations around Appalachia or Scotland and Ireland.

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.

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 design forms in order to gain a deeper understanding of the elements and principles of design. An exploration of a variety of media, processes, and applications of three-dimensional work.

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/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.

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/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.

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)—*Prerequisite(s): ARTA 1110, ARTA 1140, or permission of the instructor.* Beginning ceramics. This is an introductory course. Concentration on hand-forming processes and basic information about clays, glazes, and firing.

ARTA 2120 Basic Figure Drawing (3 credits)—*Prerequisite(s): ARTA 1110, ARTA 1140, 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 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.* A survey of printmaking, materials, and relief and screen processes with emphasis on the visual quality of the work produced.

ARTA 2401 Commercial Art (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 2020, 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 2210.* An exploration of direct lithographic printing as an artists' medium.

ARTA 3221 Screen Process (3 credits repeatable)—*Prerequisite(s): ARTA 2210.* An exploration of screen-process printing as an artists' medium.

ARTA 3301 Intaglio (3 credits repeatable)—*Prerequisite(s): ARTA 2210.* An exploration of the intaglio process as an artists' medium.

ARTA 3321 Art Experiences with Children (3 credits)—*Prerequisite(s): All freshmen and sophomore required art courses.* A course for curriculum "S" art majors and minors and/or qualified elementary education majors. Two credits per week will be spent guiding children in art experience. Weekly seminars and studio sessions will be required for those enrolled.

ARTA 3341 Relief (3 credits repeatable)—An exploration of the relief printing process as an artists' medium.

ARTA 3380 Natural and Chemical Dyeing (3 credits)—*Prerequisite(s): ARTA 1204.* An investigation of dye color applications to fiber and fabric using natural and chemical dyes with cellulose and protein fibers. Emphasis on the development of technical skills and color. Course repeatable for credit.

ARTA 3401 Typography (3 credits)—The design and use of typographic material.

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/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.

ARTA 3501 Intermediate Sculpture (3-9 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 (3-9 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 (3-9 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 (3-9 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 (3-9 repeatable)—*Prerequisite(s): ARTA 2401.* A studio course devoted to the design and preparation of two-dimensional material for reproduction.

ARTA/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.

ARTA/ARTH 4027/5027 Art History of the Middle Ages (3 credits)—A survey of European architecture, sculpture, and painting from Late Antiquity to the end of the Gothic period. Offered in alternate years.

ARTA/ARTH 4037/5037 Art History of the Renaissance Period (3 credits)—A survey of European art from 1300 to 1600 with emphasis on Italian and Flemish art. Offered in alternate years.

ARTA/ARTH 4047/5047 Art History of the Baroque Period (3 credits)—A survey of the major styles of European art from 1600 to 1750: Baroque, Classicism, Realism, and Rococo. Offered in alternate years.

ARTA/ARTH 4057/5057 Art History of the 19th Century (3 credits)—A survey of the major styles and trends in art from Neoclassicism to Postimpressionism. Offered in alternate years.

ARTA/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.

ARTA 4071 Advanced Weaving II (3-9 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 Weaving III (3-9 repeatable)—*Prerequisite(s): ARTA 2071, ARTA 3071, ARTA 3072, and ARTA 4071; or by permission of 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 4073 Fabric Design (3-9 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/ARTH 4077/5077 Contemporary Art (3 credits)—A survey of art from Surrealism to the present day. Offered every spring semester.

ARTA 4081, 4082 Jewelry and Metalsmithing (3 credits)—Advanced courses in metal techniques and jewelry design.

ARTA/ARTH 4087/5087 Asian Art (3 credits)—A study of the arts of India, China, and Japan.

ARTA/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.

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 (3-9 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 (3-9 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.* Advanced studio work in direct lithographic printing.

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.* Advanced studio work in screen-process printing.

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 and preparation of three-dimensional material for commercial reproduction.

ARTA 4302 Illustration (3-9 repeatable)—An advanced studio course in the design and preparation of two-dimensional material for commercial reproduction.

ARTA 4303 Computer Art and Design (3-9 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 4320 Elementary School Art (3 credits)—Required course for all elementary education majors. Should be taken in the junior year. The courses include art media experiences and art appreciation.

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 (3-9 repeatable)—*Prerequisite(s): ARTA 2210.* Advanced studio work in intaglio printing.

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 (3-9 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 (3-9 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/ARTH 4601 History of Photography (3 credits)—Exploring the history of photography from its beginning to the present day.

ARTA 4602 View Camera Photography (3-9 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 (3-9 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)

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	Fibers	(1-6 credits repeatable)
ARTA 5200	Drawing	(1-6 credits repeatable)
ARTA 5220	Field Experience in Art Education	(3 credits)

ARTA	5330	Elementary School	(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)	
ARTA	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/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 credits lecture, two credits laboratory 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 credits lecture, two credits laboratory 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.

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.

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.

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.

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.

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.

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.

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 Principles of Banking (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

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.

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.

**Biological Sciences
BIOL/IBMS**

BIOL 1000 Academic Advantage (2 credits)—This course helps the first-year student make the transition to the university, develop a better understanding of the learning process, and enhance essential academic skills. The course provides a support group for students in a critical transitional year by examining problems and issues common to the first year of college. *Elective credit only. Does not apply toward the major or minor requirements.*

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 behaviour. 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 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) — *Prerequisite(s):* 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, behaviour, 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 (2-6 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	(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/SOAA 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.

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 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 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 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 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 (1-3 credits)—Students will create original songs under the tutelage of a songwriter with professional credentials.

BLUE 4510 Bluegrass Band III (1 credit)

BLUE 4520 Old Time String Band III (1 credit)

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.

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 4010.* 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 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 4010.* 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)	
	and Cognition	
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 6100	Instrumentation and Acoustic Measurement (3 credits)	
CDIS 6110	Anatomy, Embryology, Physiology (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 5200	Speech-Language Pathology in Public Schools (3 credits)	
CDIS 6205	Speech-Language Pathology for Audiology Students.. (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 (3 credits)	
	Cognitive Communication Disorders	
CDIS 6300	Rehabilitative Audiology for Children (3 credits)	
CDIS 6310	Rehabilitative Audiology for Adults (3 credits)	
CDIS 6320	Auditory Processing Disorders (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)	
CDIS 5590	Externship Audiology (6-9 credits)	
CDIS 5610	Speech-Language Pathology Clinic: Audiologists (1 credit)	
CDIS 5620	Speech-Language Pathology Clinic: (3 credits)	
	Child Evaluation/Treatment	
CDIS 5640	Speech-Language Pathology Clinic: (3 credits)	
	Adult Evaluation/Treatment	
CDIS 5670	Speech-Language Pathology Clinic: Advanced (3 credits)	
CDIS 5690	Externship: Speech-Language Pathology (3 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)	

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 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 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, spectroscopy, 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 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 2989-99 Cooperative Education (3 credits)—The application of classroom learning experience to on-the-job training.

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 (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 (1-3 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 (3 credits)

CHEM 4989-99 Cooperative Education (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.....	(1-2 credits)
CHEM 5960	Thesis in Chemistry.....	(1-4 credits)
CHEM 5989	Cooperative Education.....	(1-3 credits)
CHEM 5990	Readings and Research.....	(3 credits)
CHEM 5999	Cooperative Education.....	(1-3 credits)

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 behaviour, 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 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., will be examined.

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 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 4590 The Death Penalty in America (3 credits)—Historical, philosophical, and empirical examination of capital punishment. Emphasis on race, class, gender and the death penalty. Legal issues including jury decision-making, cruel and unusual punishment, and execution of the mentally ill, juveniles, and the innocent.

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 on sexual and racial harassment in the workplace.

CJCR 4680 Issues in Criminal Justice Policy and Criminology Research (3 credits)—*Prerequisites: 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 (3 credits variable)—*Prerequisite(s): Senior or graduate status.* A seminar on selected topics of contemporary interest.

CJCR 4989-99 Cooperative Education (1-3 credits)—*Prerequisite(s): By permission of department chair only.*

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	(3 credits)
CJCR 5980	Research Practicum	(1 credit)

Electives

CJCR 5020	American Policing	(3 credits)
CJCR 5026	The Death Penalty in America	(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 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.

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.

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.

CSCI 1103 Microsoft PowerPoint Software (1 credit) — *Prerequisite: CSCI 1100.* This class will introduce students to basic and advanced features of presentation software.

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.

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.

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.

CSCI 1260 Introduction to Computer Science II (4 credits)—*Prerequisite(s): CSCI 1100, CSCI 1250, and CSCI 2020.* Programming in a high-level language, including programming concepts, good style, algorithms, documentation, and elementary data structures.

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.

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)—*Prerequisite(s): MATH 1720 or two years of high school algebra; and Corequisite(s): CSCI 1100 or Proficiency Exam.* 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.

CSCI 1720 Intermediate Topics in Web Development (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.

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.

CSCI 2020 Fundamentals of Database (3 credits) — *Prerequisite(s): CSCI 1200, CSCI 1710, CSCI 1800, or 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.

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 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 or CSCI 1800.* 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.

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.

CSCI 2200 Introduction to UNIX (3 credits)—*Prerequisite: CSCI 1800 or 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.

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.

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.

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.

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 Client and Server-Side Web Programming (4 credits)—*Prerequisite(s): CSCI 1710, CSCI 2020, and either CSCI 1260 or CSCI 2800.* Programming for server-side web applications. Topics will include document object model, browser object model, server-side scripting languages, sessions security, and real-world implementation considerations.

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 2800 or 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.

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.

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.

CSCI 3400 Networking Fundamentals (3 credits) — *Prerequisite(s): CSCI 2150.* 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.

CSCI 3800 Visual Programming for Programmers (4 credits) *Prerequisite: The equivalent of CSCI 1250 and 1260 or permission of the instructor.* 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.

CSCI 4018 Honors Thesis (3 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.

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 or CSCI 2210 and 2230, 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.

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.

CSCI 4317/5317 Law and the Internet (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.

CSCI 4417/5417 Introduction to System Administration (3 credits)—*Prerequisite(s): CSCI 3400 and CSCI 2235 or CSCI 2200.* 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.

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.

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; or permission of instructor.* 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.

CSCI 4727/5727 Operating Systems (3 credits)—*Prerequisite(s): CSCI 2160 and CSCI 2210; or permission of the instructor.* 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.

CSCI 4800 Senior Project in Information Technology (3 credits)—*Prerequisite(s): CSCI 4127 and senior status in Computer Science.* 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.

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 4899/4999 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 Placement 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.

CSCI 4900 Independent Study (1-6 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.

CSCI 4927 Human Computer Interaction (3 credits) — *Prerequisite(s): CSCI 2910, CSCI 2210 or equivalent.* 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.

CSCI 4956 Summer School Topics (1-4 credits) — *Prerequisite: Permission of instructor.* Selected topics in computer science not covered in other courses. This course may be repeated for credit with departmental approval if topics are significantly different.

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.

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

CSCI 5100	Computer Architecture: Advanced Concepts	(3 credits)
CSCI 5150	Operating Systems: Advanced Concepts	(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 5350	Graph Theory and Its Applications	(3 credits)
CSCI 5460	Cryptography and Data Security	(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 Design Studio II	(4 credits)
CSCI 5930	Software Development Project III	(3 credits)
CSCI 5960	Thesis	(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 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 4330 Integrated Field Experience II (1 credit)—*Prerequisite(s): Admission to teacher education, CUIAI 4210, CUIAI 4220, and CUIAI 4230; Corequisite(s): CUIAI 4310 and SCED 4320.* This course is a school-based field experience that accommodates the requirements for CUIAI 4310 and SCED 4320. Students participate in planning, implementing, and evaluating integrated instruction appropriate for students of varying backgrounds and abilities.

CUAI 4407/5407 Integrating the Creative Arts: K-8 (3 credits)—*Prerequisite(s): Completion of the Arts and Artistic Vision course requirement in General Education and of fine arts course in K-8 concentration.* 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)
FACS 4727/5727	Methods for Vocational Home Econ. Ed.	(3 credits)
BIOL 4417/5417	Teaching Biology in High School	(3 credits)
ENGL 4417/5417	Teaching English in Secondary Schools	(3 credits)
ENTC 4787/5787	Methods of Teaching Vocational/Technology Ed.	(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)
SPCH 4417/5417	Teaching Secondary School Speech and Theatre ...	(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 CUIAI 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 CUIAI 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)—*Prerequisite(s): CUIAI 4437/5437 and CUIAI 4447/5447.* 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)—*Prerequisite(s): CUIAI 4437/5437 and CUIAI 4447/5447.* 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 CUIAI 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 CUIAI 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 4587/5587 Internship (1-12 credits)—*Prerequisite(s): Admission and retention in teacher education; and approval of the director of student teaching.* *Corequisite(s): CUIAI 4687.* A supervised teaching experience at kindergarten, elementary (1-8), or secondary level. May be repeated for credit as deemed necessary by the director of student teaching.

CUAI 4687/5687 Seminar for Interns (3 credits)—*Corequisite(s): CUIAI 4687.* Current issues and problems will be discussed as they relate to the internship experience. May be repeated for credit as deemed necessary by the director of student teaching.

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 5418	Creative Drama and Movement for Teachers	(2 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 5901	Independent Study (K-8)	(1-6 credits)
CUAI 5902	Independent Study (7-12)	(1-6 credits)
CUAI 5910	Assessment Techniques in the Classroom	(3 credits)
CUAI 5960	Thesis	(3 credits)
CUAI 5990	Readings and Research	(1-3 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 Techniques (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 2145 Square Dance (1 credit)—A course in Western-style square dance with an emphasis in the history, leaders, clubs, basic formations, styles, steps, and calls.

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 1000 Dental Anatomy (2 credits)—A study of morphology, structure, and function of deciduous and permanent teeth and their surrounding tissues. Tooth identification and oral structures to be emphasized.

DHYG 1100 Introduction to Head and Neck Anatomy (1 credit)—A study of the anatomy of the oral cavity, the head, and neck. Emphasis is placed on osteology of the skull, mandible muscles of the head and neck region, the arterial, venous, lymphatic, and nervous supply to the head.

DHYG 1200 Preclinical Dental Hygiene I (3 credits)—An introduction to the knowledge, responsibilities, and skills required by the dental hygienist in rendering oral health services to patients.

DHYG 1201 Preclinical Dental Hygiene Lab I (2 credits)—*Corequisite(s): Eight credits of laboratory experience in conjunction with DHYG 1200.* Acquired concepts and skills will be demonstrated and utilized by students in a supervised clinical setting.

DHYG 1300 Histology and Embryology (2 credits)—An introduction to general histology with emphasis placed on the histology of the oral and paraoral tissues and the embryological development of the head, face, and neck, including the blood and nerve supply to the oral and paraoral structures.

DHYG 1400 Introduction to Dental Office Emergencies (1 credit)—*Prerequisite(s): CPR certification.* A study of frequently occurring dental office emergencies with emphasis placed on recognition and treatment of these emergencies.

DHYG 1600 Preclinical Dental Hygiene II (2 credits)—*Prerequisite(s): DHYG 1200, DHYG 1201.* A continuation of preparation necessary for the dental hygienist rendering oral health services.

DHYG 1601 Preclinical Dental Hygiene Lab II (2 credits)—*Prerequisite(s): DHYG 1200, DHYG 1201. Corequisite(s): Six hours of laboratory experience in conjunction with DHYG 1600.* Emphasis is placed on the application of instrumentation techniques in a supervised clinical setting.

DHYG 1700 Introduction to General and Oral Pathology (3 credits)—An introduction to general and oral pathology including discussion of the more common diseases affecting the human body and study of the clinical manifestations of the common diseases affecting the oral and paraoral structures.

DHYG 1800 Dental Nutrition (2 credits)—A study of general nutrition and its application to preventive dentistry.

DHYG 1900 Dental Radiology II (1 credit)—*Prerequisite(s): DHYG 1500, DHYG 1501.* A two-credit lecture/laboratory to study the

interpretation of periapical, bitewing, occlusal, and panoramic radiographs for recognition of periodontal conditions, dental caries, and other pathological conditions.

DHYG 2000 Clinical Practice I (4 credits)—*Prerequisite(s): DHYG 1600, DHYG 1601.* Three four-credit sessions of supervised clinical practice. An introduction to the treatment of the periodontally involved patient and performance of selected expanded services.

DHYG 2010 Preventive Dentistry I (1 credit)—*Prerequisite(s): DHYG 1200, DHYG 1201, DHYG 1600, and DHYG 1601; Corequisite(s): DHYG 2000 and is a part of the clinical education continuum.* Major content emphasis includes dental hygiene treatment planning and patients with special needs.

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 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 2200 Introduction to Dental Materials Lecture (2 credits)—A study of the characteristics, physical properties, manipulation, uses, and care of materials used in the practice of dentistry.

DHYG 2201 Introduction to Dental Materials Lab (1 credit)—A three-credit laboratory that includes demonstration, participation, and practice with accepted materials and techniques commonly utilized in dental practice.

DHYG 2400 Clinical Practice II (4 credits)—*Prerequisite(s): DHYG 2000, DHYG 2010.* Three four-credit sessions per week of supervised clinical practice. Emphasis is placed on treatment of the periodontally involved patient and performance of selected expanded services.

DHYG 2410 Entry Clinical Seminar II (1 credit)—*Prerequisite(s): DHYG 2000, DHYG 2010; Corequisite(s): In conjunction with DHYG 2400 and is a part of the clinical education continuum.* Major content emphasis includes the dental specialties.

DHYG 2500 Introduction to Community Dentistry (3 credits)—Survey of the theory and practice of dental public health, including field experiences in planning and development of dental health programs, dental survey, and screening methods and interpretation of results.

DHYG 2600 Introduction to Pharmacology (2 credits)—*Prerequisite(s): CHEM 1310, CHEM 1311, HSCI 2010, HSCI 2020, HSCI 2230, HSCI 2231.* The study of drugs currently used in dentistry with emphasis on their classification, usage, dosage, methods of administration, toxicology, and fundamentals of prescription writing.

DHYG 2700 Seminar in Ethics and Jurisprudence (1 credit)—A study of the principles of professional ethics, laws, and jurisprudence as they relate to the practice of dentistry and dental hygiene. Also includes a study of state dental practice acts and procedures for obtaining a position in dental hygiene.

DHYG 2800 Clinical Dental Hygiene (4 credits)—*Prerequisite(s): DHYG 2400, DHYG 2410.* Three four-credit sessions of supervised clinical practice with continued emphasis on the periodontally involved patient and the performance of selected expanded services.

DHYG 2810 Entry Preventive Dentistry III (1 credit)—*Prerequisite(s): DHYG 2400, DHYG 2410; Corequisite(s): In conjunction with DHYG 2800 and is a part of the clinical education continuum.* Major content emphasis includes patient anxiety and pain control.

DHYG 2900 Problems in Dental Hygiene (3 credits)—*Prerequisite(s): Permission of the instructor.* An independent study plan. Individual student or group of students, select a significant problem in dental hygiene, and then work under the direction of a faculty member to formulate, develop, and implement a plan of action appropriate to the problem. Areas of concentration may include clinical dental hygiene, dental public health, education, administration, or research.

DHYG 2950 Geriatric Dentistry (2 credits)—An introduction to the special considerations of the segment of the geriatric population confined to long-term care facilities. Special emphasis on dental health teaching strategies will be incorporated to assist students' designs and presentations of in-services to nursing home staff.

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 Contemporary 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 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 (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.

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.

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.

DIGM 2820 Industrial Illustration (4 credits)—An introductory study in rapid 3-D visualization and illustration techniques using traditional media to communicate and illustrate industrial product design. Lecture and lab.

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.

DIGM 2822 Presentation Media (4 credits)—Introduction to organizing media projects and delivering clear and dynamic computer-based presentations of proposals and descriptions. This course prepares students for communicating and coordinating with others in collaborative projects. Lecture and lab.

DIGM 2825 Digital Media Systems (4 credits)—Introductory study of computer-based media systems with emphasis on universal standards and practices in hardware and software platforms. Includes overview and issues regarding computer media used in industrial, corporate, institutional work environments and for entertainment. Lecture and lab.

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.

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.

DIGM 3000 Principles of Interaction (4 credits)—*Prerequisite(s): DIGM 1650, DIGM 1640, ARTA 1110; Prerequisite(s) or Corequisite(s): ARTA 1204 or permission of the instructor.* 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.

DIGM 3010 Principles of Visualization (4 credits)—*Prerequisite(s): DIGM 1640, DIGM 1650, ARTA 1110; Prerequisite(s) or Corequisite(s): ARTA 1204 or permission of the instructor.* 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.

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.

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.

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.

DIGM 3200 Web Design (4 credits)—*Prerequisite(s): (Digital Media Majors) DIGM 3000, or permission of instructor; Prerequisites: (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.

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.

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.

DIGM 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.

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.

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.

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.

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.

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.

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.

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. Corequisite: 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.

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.

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.

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.

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.

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.

DIGM 4900 Independent Study in Digital Media (2-6 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.

DIGM 4957/5957 Special Topics in Digital Media (2-6 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.

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.)

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.)

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.

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.

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.

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—4th grade) classrooms. Licensing standards and environmental rating tools will be explored, as well as the impact.

ECED 4010 Observing and Assessing Young Children (3 credits)—*Prerequisite(s): EACS 2110, EACS 2120, EACS 3140.* 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.

ECED 4130 Professional Issues in Early Childhood Education (3 credits)—*Prerequisite(s): ECED 2010, EACS 2120, EACS 3140, ECED 4140 and be admitted to Teacher Education; 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.

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—4th 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.

ECED 4150 Literacy in Young Children (3 credits)—*Prerequisite(s):* FACS 2110, FACS 2120, HDAL 3117, HDAL 3130, and admission to Teacher Education. 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. Writing Intensive Course.

ECED 4161 Curriculum Development for Young Children (3 credits)—*Prerequisite(s):* ECED 2010, FACS 2120, ECED 3220, FACS 3140, ECED 4140. 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 - 9 (Pre-K—4th grade) in the cognitive realm of scientific, social, mathematical, and language learning. Field participation in early childhood settings is required.

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.

ECED 4347/5347 Technology and Media in Inclusive Early Childhood Education (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.

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.

ECED 4517/5517 Family, Community, and School K-8 (3 credits)—*Prerequisite(s):* Admission to Teacher Education. 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.

ECED 4580 Student Teaching in Early Childhood Education (PreK—4) (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.

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.

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.

ECON 2218 Principles of Economics I - Honors (3 credits)—An introduction to macroeconomic analysis, which concentrates on the economy as a whole and includes such topics as inflation, unemployment and economic growth. It provides an overview of several economic perspectives. These viewpoints are further developed through classroom debates on current economic issues and the writing and presentation of policy position papers.

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.

ECON 2080 Quantitative Methods for Business II (3 credits)—*Prerequisite(s):* ECON 2070 and MATH 1530. 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.

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.

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.

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.

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.

ECON 3088 Research Methods and Statistics - Honors (3 credits)—*Prerequisite(s):* MATH 1530, ECON 2070, and ECON 2080. 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.

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.

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.

ECON 4018 Senior Honors Seminar (3 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.

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.

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 and ECON 2220.* 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.

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.

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.

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.

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.

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.

ECON 4957/5957 Topics in Economics (3 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.

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 5510	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.

EDFN 2300 Foundations for Teaching (2 credits)—*Prerequisite(s): EDFN 2100 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, 30 hours.

EDFN 3301 Issues in Education (3 credits)—*Prerequisite(s): EDFN 2100 and EDFN 2300; or EACS 2120.* 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.

EDFN 4581 Seminar in Education (3 credits)—*Coresquisite(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.

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 5405	The Profession of Teaching	(1 credit)
EDFN 5410	Foundations of Education	(3 credits)
EDFN 5411	Exploring School	(3 credits)
EDFN 5950	Methods of Research	(3 credits)
EDFN 6906	Independent Study in Foundations of Ed	(3 credits)
EDFN 6730	Foundations: Hist. & Phil. Foundations of Ed	(3 credits)

Educational Leadership and Policy Analysis ELPA

ELPA/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.

English ENGL

(See Developmental Studies for below college-level courses)

NOTE: ENGL 1010 or 1020 or their equivalent are prerequisites for all English courses at the 2000 level and above.

ENGL 1000 Academic Advantage (2 credits)—This course helps the first-year student make the transition to the university, develop a better

understanding of the learning process, and enhance essential academic skills. The course provides a support group for students in a critical transitional year by examining problems and issues common to the first year of college. *Elective credit only. Does not apply toward the major or minor requirements.*

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.

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.

ENGL 1007, 1009 English as a Second Language Laboratory (1 credit)—Emphasis on pronunciation, classroom listening skills, and English conversation. Required of all undergraduate students registered for ENGL 1006 and 1008.

ENGL 1010 Critical Reading and Expository Writing (3 credits)—Writing paragraphs and essays based on close readings of various texts. emphasis on clear, grammatically correct expository prose. Students must take this course during the first eligible semester at the university.

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.

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.

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

****ENGL 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.

NOTE: Students cannot receive credit for both ENGL 1228 and PHIL 1228.

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.* This course will survey important American writers and writings from Colonial times through the Civil War.

ENGL 2120 American Literature II (3 credits)—*Prerequisite(s): ENGL 1010 and ENGL 1020; or equivalent.* This course will survey important American writers and writings 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 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 (3 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 Social and Psychological Aspects 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 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 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 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

**Technology
ENTC**

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 His Age (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 (3 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.

* Cross-listed with PHIL 1218

** Cross-listed with PHIL 1228

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

ENGL 5019	Supervised Experience in Teaching	(3 credits)
ENGL 5020	Medieval Literature	(3 credits)
ENGL 5029	Supervised Experience in Research	(3 credits)
ENGL 5039	Supervised Experience in Administration	(3 credits)
ENGL 5060	Literature of Southern Appalachia	(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	(3 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	(3 credits—Required)
ENGL 5990	Readings and Research	(1-3 credits)
ENGL 5989	Cooperative Education	(variable)

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.

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

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.

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.

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 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.

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.

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.

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.

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.

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.

ENTC 2440 Mechanical Systems (4 credits)—*Prerequisite(s): ENTC 2410/20; 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.

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 effects on statically determinate structures including a study of shear, moment and thrust diagrams, stresses and combined stresses, and properties of materials. Lecture and lab.

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.

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.

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 3170 Network Systems (4 credits)—*Prerequisite(s): ENTC 2320.* An introduction to network hardware. Both wire and wireless systems will be examined. Hardware for LAN and WAN systems will be examined.

ENTC 3230 Industrial Ceramics (3 credits)—Analysis of industrial ceramic industries, production methods, problems and processes in product design and application. Effect of state and shape of raw materials on manufacturing processes and final properties of product. Lecture and lab.

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.

ENTC 3310 Circuit Analysis (3 credits)—*Prerequisite(s): ENTC 2310 and MATH 1850.* Loop equations and node voltage analysis, principles of phasors and complex numbers applied to alternating current circuits, superposition, Thevenin's and Norton's Theorems, solving circuit problems using the computer.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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

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.

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.

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.

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.

ENTC 3680 Polymers and Composites (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.

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.

ENTC 4018 Honors Thesis (3 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

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

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.

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

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.

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

ENTC 4267/5267 Physical Metallurgy (3 credits)—*Prerequisite(s): ENTC 3240 or permission of instructor.* Relationships of structural and processing variables to that of microstructure, properties, and service behavior of metals and alloys. Emphasis on the theory of heat treating relative to the physical and mechanical characteristics of both ferrous and nonferrous metals and alloys. Lecture and lab.

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.

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.

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.

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.

ENTC 4347/5347 Digital Signal Processors (4 credits)—*Prerequisite(s): ENTC 4337.* A continuation of ENTC 4337. Instruction is developed around a 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.

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.

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.

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.

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.

ENTC 4417/5417 Construction Financing and Administration (3 credits)—*Prerequisite(s): ENTC 2410, ENTC 2420, CSCI 1010.* 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

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.

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 4637/5637 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 4647 Job Analysis and Curriculum Organization (3 credits)—An introduction to the systematic and orderly processes of identifying and organizing instructional materials. Experience in writing job descriptions, preparing and performing analysis, and sequencing selected course content. Also, curriculum development coordination and integration of courses and programs, and curriculum trends. Development of teaching materials appropriate in teaching a specified course.

ENTC 4717 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 4747 Instructional Management in Industrial Education (3 credits)—The processes involved in developing a physical learning environment for teaching laboratory courses. Utilizing the teacher and the advisory committee in layout of facilities that reflect efficiency of use, safe working conditions, and industrial orientation. The same criteria will be applied in identifying Co-Op training stations in the community.

ENTC 4767/5767 Coordinating of Student Clubs and Leadership (3 credits)—Coordination of formal student groups such as VICA and TSA. A study of the management, operation, and planning of these organizations Leadership activities and exercises.

ENTC 4777/5777 Safety Management (3 credits)—*Prerequisite(s): PSYC 1310, junior standing, or permission of instructor.* 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.

ENTC 4787/5787 Methods of Teaching Vocational/Technology Education (3 credits)—*Prerequisite(s): Upper-division standing or permission of instructor; and admission to Teacher Education.* For students seeking teaching certification in the applied sciences and technology. Introduction to basic instructional processes appropriate for vocational/technology education. Criteria for selecting instructional method. Emphasis on establishing measurable goals and objectives, as well as individualized instruction. Types and utilization of instructional technology materials.

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 (2-6 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)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

ENTC 5010	Modern Industry	(3 credits)
ENTC 5020	Technical Management	(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 5110	Photo-Realistic 3D Animation and Effects	(6 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 5650	Forest Products Technology	(2 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	(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 2989 Cooperative Education (1-3 credits)

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 (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 3320; 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 Studies in Environmental Health (1-4 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	(1-4 credits)
ENVH 5990	Readings and Research	(1-3 credits)
ENVH 5989-99	Cooperative Education	(variable)

**Family & Consumer Sciences
FACS**

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.

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.

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

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.

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.

FACS 1620 Introduction to Contemporary Interiors (3 credits)—*Prerequisite(s): FACS 1610, ARTA 1110 or equivalent.* 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.

FACS 1621 Design Communications: Studio I (3 credits)—*Prerequisite(s): FACS 1610, FACS 1620, ARTA 1110, or equivalent.* Introduction to the terminology and symbols used in interior design. Students develop floor plans, sections, 3-D models, and paraline drawings to communicate ideas.

FACS 2000 Preparation for Marriage (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.

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.

FACS 2110 Infant/Toddler/Child Development (3 credits)—An in-depth study of the physical, cognitive, and socio-emotional development of the child from birth through age nine. 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.

FACS 2120 Foundations of Early Childhood Development (3 credits)—*Permission of education professional advisor must be obtained for all TRED and ECDV majors. Additionally, TRED and ECDV majors must pass the mandated state exam before enrollment in this course.* 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.

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.

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.

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.

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.

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.

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.

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.

FACS 2630 Presentation: Studio II (3 credits)—*Prerequisite(s): FACS 1620, FACS 1621, FACS 2620, ARTA 1110, ARTA 1140, and ARTA 1210 or ARTA 1204 or equivalent.* Etching, simulation, display, photography, and other visual techniques to convey design concepts.

FACS 2989-99 Cooperative Education (1-3 credits)

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.

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.

FACS 3110 Parent/Child/School 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.

FACS 3120 Computers and Technology in Early Childhood (1 credit)—*Prerequisite(s): CSCI 1100.* This course is designed to provide a comprehensive overview of the application of computers in the early childhood setting. Theory, research, and application as it relates to the use of computers in the early childhood setting will be reviewed. Students will acquire the skills to evaluate and assess the appropriateness of computer software, learn how to design and implement a computer station in the early childhood setting, and acquire the knowledge to integrate computers into the existing early childhood curriculum. Laboratory work with microcomputers and technology will be required.

FACS 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 nine. Student will also create and design creative experiences and activities for children from birth through age nine in a variety of professional settings.

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.

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.

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.

FACS 3230 Fashion Fundamentals (3 credits)—*Prerequisite(s): junior standing.* 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.

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.

FACS 3460 Experimental Food Science (4 credits)—*Prerequisite(s): FACS 1410 and CHEM 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.

FACS 3465 Human Nutrition and Metabolism (3 credits)—*Prerequisite(s): FACS 2420 and HSCI 3020.* A comprehensive study of digestion, absorption, excretion, and storage of nutrients in the adult human with emphasis on digestive and endocrine physiology.

FACS 3470 Beverage Management in Foodservice Organizations (2 credits)—*Prerequisite(s): FACS 1410 and ACCT 2010; or departmental approval.* 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.

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.

FACS 3615 Space Planning: Studio III (3 credits)—*Prerequisite(s): FACS 2611.* Application of the space planning process to meet codes, standards, and program requirements for interior spaces up to 10,000 square feet.

FACS 3621 Residential Design and Housing (3 credits)—*Prerequisite(s): FACS 2611, FACS 2630, and FACS 3615.* Advanced residential design and housing issues.

FACS 3625 AutoCAD for Interior Designers (3 credits)—*Prerequisite(s): CSCI 1100 or computer competency.* 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.

FACS 3627 Materials and Methods (3 credits)—*Prerequisite(s): FACS 1620, FACS 1621, and 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.

FACS 3630 Advanced Lighting (3 credits)—*Prerequisite(s): FACS 2611.* Advanced study of lighting for various nonresidential applications. Emphasis on selection criteria and effects.

FACS 3650 Contract Design (3 credits)—*Prerequisite(s): FACS 1610, FACS 1620, FACS 1621.* Laws, codes, standards, and specifications relative to nonresidential interiors.

FACS 3989-99 Cooperative Education (1-3 credits)

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.

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.

FACS 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 divorces 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.

FACS 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

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.

FACS 4221 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.

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.

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.

FACS 4240 Visual Merchandising (3 credits)—*Prerequisite(s): ARTA 1110, ARTA 1140, 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.

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.

FACS 4260 Merchandising Seminar (3 credits)—*Prerequisite(s): FACS 3230, 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.

FACS 4261 Merchandising Internship (3 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.

FACS 4330 Family Management Through the Lifespan (3 credits)—*Prerequisite(s): FACS 1110, ECON 1050; or ECON 2210; or ECON 2220; or permission of instructor.* 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.

FACS 4417/5417 Food Systems Operations (3 credits)—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.

FACS 4427/5427 Diet in Disease I (3 credits)—*Prerequisite(s): FACS 3465, HSCI 3020 or equivalent; and BIOL 3000/01 or equivalent.* 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.

FACS 4437/5437 Diet in Disease II (3 credits)—*Prerequisite(s): FACS 3465, HSCI 3020, 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.

FACS 4447/5447 Nutritional Biochemistry (3 credits)—*Prerequisite(s): FACS 3465, HSCI 3020, or departmental approval.* 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.

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.

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, FACS 2420, or departmental approval.*

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.

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.

FACS 4537/5537 Field Studies (3 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.

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.

FACS 4610 Health Care Studio IV (3 credits)—*Corequisite(s): FACS 3650, FACS 4615, and departmental approval.* Application of the design process in planning interior health care environments for the children, the elderly, physically challenged, and other special populations.

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.

FACS 4615 Professional Practices in Interior Design (3 credits)—*Prerequisite(s): FACS 4610 and departmental approval.* Professional business practices, contracts, ethics, responsibilities, liabilities, etc. Introduction to professional organizations, markets, and financial services employment practices.

FACS 4657/5657 Historical Interior/Architecture II (1-3 credits)—*Prerequisite(s): Six hours earned in FACS and consent of the instructor.* Classroom and on-site study of interior and exterior architecture in various parts of the United States. Structured semi-independent study and travel.

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.

FACS 4900 Independent Studies (1-9 credits)—*Prerequisite(s): Permission of department chair and instructor.*

FACS 4957/5957 Special Topics in Family and Consumer Sciences (3 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.

FACS 4989-99 Cooperative Education (1-3 credits)

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	(1-3 credits)
FACS 5990	Readings and Research	(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.

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.

FCNU 3051 Adult and Family Care II (9 credits)—*Prerequisite(s): Completion of first semester junior level nursing courses, ALNU 3021 Prerequisite(s) or Corequisite(s): FCNU 3040, FCNU 3050, and PMNU 3070.* This course focuses on the physical and behavioral health care of infants, children, adolescents, and young adults. Diverse settings are used to plan and evaluate nursing care that includes primary prevention strategies, as well as acute, chronic, and terminal care.

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.

FCNU 3071 Care of Young Adults and Childbearing Families Practicum (3 credits) — *Corequisite: FCNU 3070.* This course focuses on care of young adults and families during the childbearing cycle.

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.

FCNU 3081 Care of Children and Their Families Practicum (3 credits) — *Prerequisite or Corequisite: FCNU 3081.* 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.

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.

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.

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.

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.

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.

FCNU 4110 Population-based Nursing Care (3 credits) — *Prerequisite: Completion of junior-level nursing 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.

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.

FCNU 4500 Women's Health Issues (3 credits)—*Prerequisite(s): Senior status or honor's status.* This course addresses the historical perspective and current status of women's health, special concerns related to women's health, and the economical, political, and cultural factors, which impact women's health. Strategies for optimal health throughout the lifespan are presented. *Elective*

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.

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*

FCNU 4900 Nursing Independent Study (1-3 credits)

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*

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 content is significantly different or advanced.

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*

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

FCNU 5021	Life Span Assessment and Clinical Management: (2 credits)
	Women's Health
FCNU 5022	Life Span Assessment and Clinical Management: (3 credits)
	Women's Health Practicum
FCNU 5023	Life Span Assessment and Clinical Management: (2 credits)
	Children and Adolescents
FCNU 5024	Life Span Assessment and Clinical Management: (3 credits)
	Children and Adolescents Practicum
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 2220 Personal Finance (3 credits)—this course is not open to seniors majoring in the college of business. 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 3120 Principles of Real Estate (3 credits)—*Prerequisite(s): ECON 2210 and ECON 2220; or consent of instructor.* A study concerning economic, social, financial, and legal problems involved in acquiring, holding, and disposing of real estate.

FNCE 3130 Real Estate Law (3 credits)—*Prerequisite(s): FNCE 3120.* A study of property rights and liabilities, real estate instruments, estates, leases, and liens. The approach is from the businessperson's viewpoint.

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.

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.

FNCE 3500 Capital Budgeting (3 credits)—*Prerequisite(s): FNCE 3220.* An advanced course in financial management emphasizing capital asset selection under conditions of risk.

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.* 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.

FNCE 4320 Real Estate Appraisals (3 credits)—*Prerequisite(s): FNCE 3120 or consent of instructor.* A study of the fundamentals of appraising various properties and of the three major approaches to finding value: cost, income, and market.

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.

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.

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.

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.

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.

FNCE 4560 Portfolio Theory and Valuation (3 credits)—*Prerequisite(s): FNCE 3300.* Selection and valuation of portfolios of securities.

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.

FNCE 4617/5617 Applied Portfolio Management (3 credits)—*Prerequisite(s): FNCE 3300, FNCE 3500, FNCE 4560.* This course provides a solid practical foundation in Investment and Portfolio Management through the management of a portfolio of funds provided by the Tennessee Valley Authority (TVA).

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.

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.

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.

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.

FNCE 4957/5957 Topics in Finance (3 credits)—*Prerequisite(s): Senior standing.* This course gives students an opportunity to study special problems and new developments in the field of finance.

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

FNCE 5000	Essentials of Finance.....	(3 credits)
FNCE 5430	Financial Management.....	(3 credits)
FNCE 5470	Seminar in Banking.....	(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 FREN, GERM, 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)—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 (3 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.

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.

GEOG 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.

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.

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.

GEOG 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.

GEOG 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 engineers, computer scientists, family and consumer scientists, geographers, and surveyors in their professional practices.

GEOG 2310 Field Studies in Geography (3 credits)—Investigation of historic sites, manufacturing centers, and physical features. Conducted as a traveling class to various areas of the United States and Canada. Offered every summer session and occasionally during other times during the academic year.

GEOG 2989 Cooperative Education (3 credits)

GEOG 2999 Cooperative Education (3 credits)

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.

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 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.

GEOG 3040 Conservation of Natural Resources (3 credits)—Investigation into the use, abuse, and allocation of natural resources.

GEOG 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 appropriate to Applied Science and Technology.

GEOG 3060 Geomorphology (4 credits)—An investigation into the physical processes responsible for landforms.

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.

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.

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)—*Prerequisite(s): MATH 1040 or permission of the instructor.* An application of the principles of map construction, compilation, and the techniques of map drawing and map reading.

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.

GEOG 3989-99 Cooperative Education (1-3 credits)

GEOG 4007/5007 Geography of the United States (3 credits)—A regional study of the physical and cultural elements of the United States.

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.

GEOG 4018 Honors Thesis (3 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.

GEOG 4048 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.

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.

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.

GEOG 4217/5217 Geographic Information Systems (3 credits)—*Prerequisite(s): GEOG 3210 or permission of instructor.* 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.

GEOG 4227/5227 Remote Sensing (3 credits)—*Prerequisite(s): GEOG 3210 or permission of instructor.* A systematic treatment of elements involved in interpreting, measuring, and mapping of images that appear on aerial photographs.

GEOG 4237/5237 Advanced Remote Sensing (3 credits)—*Prerequisite(s): GEOG 3210 or permission of instructor.* A study of different types of remotely sensed images and their interpretation.

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.

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.

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.

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.

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)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

GEOG 5000	Quantitative Techniques	(3 credits)
GEOG 5010	Location Theory	(3 credits)
GEOG 5110	Seminar in Physical Geography	(3 credits)
GEOG 5130	Seminar in Urban Geography & Planning	(3 credits)
GEOG 5140	Seminar in Regional Geography	(3 credits)
GEOG 5210	Geography of Settlement and Land Use	(3 credits)
GEOG 5310	Evolution of Geographic Thought	(3 credits)
GEOG 5901	Independent Studies	(1-3 credits)
GEOG 5960	Thesis in Geography	(1-3 credits)
GEOG 5989	Cooperative Education	(1-3 credits)
GEOG 5990	Readings and Research	(1-3 credits)
GEOG 5999	Cooperative Education	(1-3 credits)

Geology GEOL

GEOL 1040 Physical Geology (4 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 lab credits per week.

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 lab credits per week.

GEOL 2020 Scientific Methods in Earth Science (4 credits)—*Prerequisite: GEOL 1040 or permission of instructor.* The ultimate goal of this class is to learn fundamental scientific methods used in Earth Sciences. Students will learn applications of mathematics in geology. Fundamental theories and principles on the physics and chemistry of important geological processes will be introduced and studied using scientific methods learned from each class. This course aims to improve students' knowledge and skills of scientific approaches involved in Earth Sciences. After successfully completing this course, students will be better prepared for advanced level geology courses requiring college level mathematics, chemistry, and physics in the Earth Sciences.

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. Plane table and airphoto techniques of mapping, section measurement, and description, and structure description and analysis will be treated. Three lecture, two lab credits per week.

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 2989 Cooperative Education (3 credits)

GEOL 2999 Cooperative Education (3 credits)

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.

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.

GEOL 3391 Invertebrate Paleontology (4 credits)—Principles of taxonomy, classification, paleoecology, evolution, and geologic records of

East Tennessee State University

the major invertebrate phyla are considered. Three credits lecture and two laboratory periods each week.

Honors students will be required to choose an invertebrate fossil group and to collect, identify, and curate that material 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.

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 Environmental Geology (3 credits)—*Prerequisite(s):* GEOL 1040 or permission of instructor. This course considers specifics in man's relationship to the physical environment. Natural environmental hazards, such as volcanoes, earthquakes, subsidence, soil flow, landslides, floods, and sedimentation, are examined. The limitations of natural resources and future projections are considered, along with the impact of man's demands upon the environment. Oil spills, surface mining, waste disposal, water supplies, and other problems of a geologic nature that are pertinent to the environment are discussed from the standpoint of specific case histories.

Honors students will be required to choose a topic within the broad scope of Environmental Geology and write a term paper on the issue. The topic must be mutually agreed on by the student and instructor and term paper will be orally defended in class. The paper should consider the history of the environmental issue, how the site/issue was evaluated, what mitigation techniques were considered and applied, the results of the mitigation and the political and social impacts that this issue had.

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.

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 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, Tenn., but additional Pleistocene sites from the region will also be utilized. Four days in the field and one day in the classroom, weekly.

GEOL 4457 Plate Tectonics (4 credits)—*Prerequisite:* GEOL 1050. This course will discuss the fundamental mechanics and structure of the Earth as a basis for considering plate motion. Continental drift, sea floor spreading, and the plate boundaries at mid-ocean ridges, transforms, subduction zones, mountain ranges and rifts will be discussed. In addition, the proposed drive mechanisms for plate tectonics will be discussed.

Honors students will be required to write a 10-page term paper on a topic within the field of Plate Tectonics. The topic must be approved by the instructor and the term paper must include an extended and annotated reference list.

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.

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, etc.

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 that the project had.

GEOL 4617/5617 Structural 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.

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 4857 Principles of Hydrogeology (4 credits)—*Prerequisites:* GEOL 1040, MATH 1920, or permission of instructor. The objective of this course is to understand the fundamental principles of the hydraulic cycle. Teaching methods will include the use of field observations, lab and chemical data, as well as modeling as basic tools to understand and manage the groundwater resource. This course will also include several required field trips to study the local hydrogeology and geology.

Honors students will be expected to conduct a field experiment or computer modeling experiment with the area of study to be approved by the instructor. The student will present a final written report and make an oral presentation to the class as part of the final grade.

GEOL 4889 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 4890 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 4899 Senior Thesis (3 credits)—*Prerequisite: Permission of department chair is required.* The Department of Physics, Astronomy, and Geology 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 4899 for the fall semester of the project. The thesis will be publicly defended.

GEOL 4900 Senior Thesis (3 credits)—*Prerequisite: Permission of department chair is required.* The Department of Physics, Astronomy, and Geology 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 Survey of German Literature Before 1700 (3 credits)—German literature from its origins to the 17th century.

GERM 3021 Survey of German Literature Since 1700 (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 (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 (3 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 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 Life-Span 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.

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.

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.

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.

HDAL 3310 Educational Psychology (3 credits)—*Prerequisite(s): HDAL 2310, HDAL 2320, HDAL 2325, or HDAL 2330.* A study of the systematic application of psychological and behavior principles to educational settings.

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.

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.

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 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 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.

HDAL 4817/5817 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 2810.* 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.

HDAL 4957/5957 Special Topics in Human Development and Learning (1-6 credits)

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	Cross Cultural Issues and Perspectives	(3 credits)
HDAL 5150	Career Planning Systems	(3 credits)
HDAL 5200	Advanced Educational Psychology	(3 credits)
HDAL 5210	Advanced Child Development	(3 credits)
HDAL 5230	Advanced Developmental Psychology	(3 credits)
HDAL 5260	Principles of Teaching and Learning	(3 credits)
HDAL 5400	Consultation Techniques	(3 credits)
HDAL 5420	Theories of Marriage and Family Counseling	(3 credits)
HDAL 5422	Marital Therapy	(3 credits)
HDAL 5430	Legal and Ethical Issues in Counseling	(3 credits)
HDAL 5549	Substance Abuse	(3 credits)
HDAL 5550	Counseling Theories	(3 credits)
HDAL 5561	Counseling Techniques for Children	(3 credits)

HDAL 5562	Counseling Techniques for Adolescents and Adults	(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 (also Psychology 5830)	(4 credits)
HDAL 5861	Applied Behavior Analysis	(3 credits)
HDAL 5880	Internship	(1-6 credits)
HDAL 5900	Independent Study	(1-3 credits)
HDAL 5960	Thesis	(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	Designing an Early Childhood Environment: Learning in Infants and Young Children	(3 credits)
ECED 5334	Social Development of Young Children	(3 credits)
ECED 5335	Assessment of Young Children	(3 credits)
ECED 5344	Parent Education and Involvement	(3 credits)
ECED 5345	Research in Early Childhood Education	(3 credits)
ECED 5352	Theories of Play	(3 credits)
ECED 5355	Administration and Management of Programs in Early Childhood	(3 credits)
ECED 5356	Language Development in Early Childhood	(3 credits)
HDAL 5440	Treating 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 Minority and Ethnic 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 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, 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 (3 credits)—An advanced course in the history of the Civil War, with emphasis upon secession, economic and military mobilization, battles and campaigns and the cultural, diplomatic, and political developments in the period from 1861 to 1865.

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 in the third quarter of the 20th century.

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 15th and the religious upheaval of the 16th 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 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 Intellectual History of Europe Since the French Revolution (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.

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 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 (1-3 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	(3 credits)
HIST 5990	Reading and Research	(1-3 credits)
HIST 5989-99	Cooperative Education	(variable)

Health Sciences HSCI

HSCI 1000 Academic Advantage (2 credits)—This course helps the first-year student make the transition to the university, develop a better understanding of the learning process, and enhance essential academic skills. The course provides a support group for students in a critical transitional year by examining problems and issues common to the first year of college. *Elective credit only. Does not apply toward the major or minor requirements.*

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 2331. 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 2330. 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 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 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 (2-6 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)
HSCI 5999	Cooperative Education	(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.

HUMT 2310 Arts and Ideas I (3 credits)—An examination of the arts and ideas of ancient and medieval cultures.

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.

HUMT 4930 Independent Studies in Humanities (3 credits)**HUMT 4950 Senior Seminar (3 credits)**

Interdisciplinary Public Health

IDPH

IDPH 2000 Introduction to Rural Health (1 credit)—This course provides an introduction to the rural primary and community care. A concentration experience at the rural site familiarizes students with the community and provides a foundation for later coursework and clinical experiences.

IDPH 2005 Communication for Health Professionals (3 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.

IDPH 2010 Rural Health and Community Leadership I (3 credits)—Students learn about caring for communities by conducting assessments using a variety of data sources, developing program plans, participating in a mock epidemic, visiting community agencies and institutions, and identifying local, state, and national trends that impact the community's health.

IDPH 3010 Rural Health and Community Leadership II (3 credits)—Students will collaborate in interdisciplinary student teams and with faculty and community members to provide selected health care interventions to adult populations.

IDPH 3020 Rural Health and Community Leadership III (3 credits)—Students will collaborate with multi-disciplinary students, faculty and community members to provide care to child and adolescent aggregates or families.

IDPH 4000 Community Health Project (3 credits)—In collaboration with community agencies and organizations, students will identify a community health need and then plan, implement and evaluate a community intervention.

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): A grade of "C" or better in JOUR 2120.* 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 2130, or a grade of "C" or better in PUBR 2770.* 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	(3 credits)

Foreign Languages LANG

Also see 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 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 (2-6 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 (2-6 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 (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 5350	Topology	(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)
MATH 5989-99	Cooperative Education	(1-9 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 1000 Academic Advantage (2 credits)—This course helps the first-year student make the transition to the university, develop a better understanding of the learning process, and enhance essential academic skills. The course provides a support group for students in a critical transitional year by examining problems and issues common to the first year of college. *Elective credit only. Does not apply toward the major or minor requirements.*

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 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 3989-3999 Cooperative Education (1-3 credits)

MCOM 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.

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 (2-6 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 4627/5627 Children’s Materials (3 credits) — This course deals with the analysis, evaluation, and use of library media for children. It strives to relate these media to the needs and interests of children as well as to the school.

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.

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.

MGMT 3100 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.

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.

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.

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.

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.

MGMT 4018 Senior Honors Seminar (3 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.

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.

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.

MGMT 4210 Systems Analysis and Design (3 credits)—*Prerequisite(s):* MGMT 3220. An overview of systems development 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.

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.

MGMT 4347/5347 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.

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.

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 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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

MGMT 4957/5957 Topics in Management (3 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.

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

BADM 5100	Strategic Management Process	(3 credits)
BADM 5120	Managing Organizational Change	(3 credits)
BADM 5160	Information Infrastructure	(3 credits)
BADM 5320	Operations Strategy	(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 Environment of Business	(3 credits)
MGMT 5030	Quantitative Analysis for Operations Management	(3 credits)
MGMT 5110	Operations Management	(3 credits)
MGMT 5230	Management Information Systems	(3 credits)
MGMT 5310	Organizational Theory and Behavior	(3 credits)
MGMT 5401	Rural Health Issues	(3 credits)
MGMT 5505	Managing Health Care Organizations	(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)
MGMT 5910	Policy and Strategy Formulation	(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 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.

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.

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.

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.

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.

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.

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.

***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.

NOTE: Students cannot receive credit for both ADVR 3750 and MKTG 3750.

MKTG 4018 Senior Honors Seminar (3 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.

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.

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.

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.

MKTG 4840 Food Marketing Issues and Strategies (3 credits)—*Prerequisite(s): MKTG 3200.* A study of current issues which impact the agricultural, manufacturing, wholesaling, transportation, and retail segments of the food industry. Students analyze the relevant target markets and plan food marketing strategies for locally grown, manufactured, or distributed food products. The course uses case studies, service-learning projects, and lectures to focus on issues and strategies for food markets.

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.

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.

*Cross-listed with ADVR 3750

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 5310	Marketing Management	(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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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 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 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 1871 Applied Guitar 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 (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 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 (2 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 2661 Brass Methods II (1 credit)—*Prerequisite(s): MUSC 2660.* A continuation of Brass Methods I.

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 2989-99 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 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 for Classroom Teachers (3 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 3989-99 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 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 and Pedagogy (3 credits)—A survey of brass literature, performance analysis, and research. A study of pedagogical methods and materials.

MUSC 4760 Woodwind Literature and Pedagogy (3 credits)—A survey of woodwind literature, performance analysis, and research. A study of pedagogical methods and materials.

MUSC 4770 Percussion Literature and Pedagogy (3 credits)—A survey of percussion literature, performance analysis, and research. A study of pedagogical methods and materials.

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 4989-99 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 5073	Seminar in Jaques-Dalcroze	(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 credit)
MUSC 5510	Secondary Applied Music	(1 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 5830	Administration of Suzuki Programs	(2 credits)
MUSC 5840	Teaching Practicum I	(1 credit)
MUSC 5850	Teaching Practicum II	(1 credit)
MUSC 5860	Introduction to Suzuki in the School	(2 credits)
MUSC 5960	Thesis	(3 credits)
MUSC 5990	Readings and Research	(1-3 credits)

Department of Kinesiology, Leisure and Sport Sciences PEXS/PHED

FITNESS ACTIVITIES

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 Power Walking (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 concentrates primarily on the use of power 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 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 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 2250 Lacrosse (1 credit)—Designed to provide students with the fundamental skills and strategies of lacrosse. Students will actually use STX ball equipment to simulate the game of lacrosse.

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 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.

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 (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 3655 Sports Nutrition (3 credits)—*Prerequisite(s): FACS 2420.* This course is designed to provide a student with the most current information for understanding how to enhance athletic performance with proper nutrition. Students will understand how to develop nutritionally sound diets for endurance, speed, and strength-related activities. In addition,

special nutritional needs will also be discussed (e.g., gaining muscle mass or lowering body fat content).

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)—*Prerequisite(s): PEXS 3610.* 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(s): HSCI 2010/11 and HSCI 2020/21; or equivalent, physics recommended.* 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 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 4467/5467 Metabolic Aspects of Nutrition and Exercise in Disease (3 credits)—*Prerequisite(s): EACS 2420 and PEXS 3610.* This course is designed to provide an in-depth investigation of the physiologically and metabolically related aspects of exercise and nutrition in the prevention and treatment of metabolic diseases. Students will also learn the scientific basis of how specific health intervention strategies affect these diseases mechanistically from a pathological perspective.

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 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 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 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

PEXS 5670	Critical Analysis of Research in Exercise Science	(3 credits)
PEXS 5680	Promoting Well-being for Professionals	(3 credits)
PEXS 5717	Secondary Wellness Education	(3 credits)
PEXS 5800	Internship in Exercise Physiology	(3-6 credits)
PEXS 5911	Special Studies	(1-3 credits)
PEXS 5912	Special Studies	(1-3 credits)
PEXS 5950	Research Methods and Design	(3 credits)
PEXS 5960	Thesis in Physical Education	(3 credits)
PEXS 5961	Capstone Written Project	(3 credits)
PEXS 5990	Readings and Research	(1-3 credits)

**Philosophy
PHIL**

PHIL 1030 Introduction to Philosophy (3 credits)—An introduction to some central philosophical problems concerning free will, the self, science, and reality.

***PHIL 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.

NOTE: *Students cannot receive credit for both ENGL 1218 and PHIL 1218.*

****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.

NOTE: *Students cannot receive credit for both ENGL 1228 and PHIL 1228.*

PHIL 2020 Introduction to Ethics (3 credits)—An introduction to some central philosophical problems concerning morality, freedom, and political authority.

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.

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.

PHIL 2640 Science and the Modern World (3 credits)—A philosophical examination of central ideas of modern science and technology.

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.

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.

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.

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.

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.

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.

**Graduate Course Listing
For Descriptions and Prerequisite(s) see the Graduate Catalog**

PEXS 5010	Philosophy and Current Readings	(3 credits)
PEXS 5021	Planning and Operating Facilities in	(3 credits)
	Physical Education, Fitness and Sports	
PEXS 5032	Motor Development Assessment and Programming ...	(3 credits)
PEXS 5040	Principles of Motor Learning	(3 credits)
PEXS 5110	Curriculum Development	(3 credits)
PEXS 5420	Systematic Observation and Analyses	(3 credits)
PEXS 5430	Administration of Physical Education and Athletics	(3 credits)
PEXS 5440	Pedagogy	(3 credits)
PEXS 5450	Advanced Adapted Physical	(3 credits)
	Education, Sport and Leisure Activity	
PEXS 5460	Inclusion in Physical Education	(3 credits)
PEXS 5510	Data Analysis and Interpretation	(3 credits)
	in Sport and Human Performance	
PEXS 5520	Instrumentation in Exercise Physiology	(3 credits)
PEXS 5530	The Financing of Sport	(3 credits)
PEXS 5540	Graded Exercise Testing	(3 credits)
PEXS 5610	Muscle Metabolism and Hormonal Control	(3 credits)
PEXS 5620	Cardiovascular and Respiratory Physiology	(3 credits)
PEXS 5630	Biomechanics	(3 credits)
PEXS 5650	Advanced Concepts in Wellness	(3 credits)
PEXS 5655	Sports Nutrition and Ergogenic Aids	(3 credits)
PEXS 5656	Sports Conditioning and Training	(3 credits)

PHIL 3130 American Political Thought (3 credits)—*Prerequisite(s): Two (2) PHIL courses at the 1000 - 2000 level or permission of the instructor.* An examination of various themes in American political thought using the writings of contemporary thinkers, as well as sources drawn from the past. (Same as Political Science 3130.)

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.*

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.

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.

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.*

* 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 credits lecture, one credit demonstration/discussion each week. Not open to students who have any previous college credit in any of the physical sciences.

PHYS 2010-20 General Physics I, II- Noncalculus (3,3 credits)—*Prerequisite(s): Mathematics 1720 or equivalent.* 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 geometrical 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 (1) one hour lectures 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 credit 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 (1) one credit lecture and (3) three credits 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.

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.

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 (1) one credit lectures and one (2) two credit recitation session each week.

PHYS 3110 Thermodynamics (3 credits)—*Prerequisite(s): PHYS 2110/20.* Classical approach to the first and second laws of the thermodynamics. Maxwell's relations and selected applications. Three (1) one credit lectures 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 (1) one credit lectures and one (3) three credit lab sessions, or equivalent, 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 (1) one credit lectures and two (2) two-credit lab sessions, or equivalent, each week.

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) one credit lectures 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 (1) one credit lectures 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 (1) one credit lectures and one two-credit recitations/laboratory session 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 3110 and senior standing; or permission of instructor.* 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 (1) one credit lectures and one (2) two credit recitation session each week.

PHYS 4617/5617 Quantum Physics (4 credits)—*Prerequisite(s): PHYS 3610 and senior standing; or permission of the instructor.* 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. Three (1) one credit lectures and one (2) two credit recitation session each week.

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-credit 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 1000 Academic Advantage (2 credits)—This course helps the first-year student make the transition to the university, develop a better understanding of the learning process, and enhance essential academic skills. The course provides a support group for students in a critical transitional year by examining problems and issues common to the first year of college. *Elective credit only. Does not apply toward the major or minor requirement.*

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.

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.

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.

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.

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.

PMNU 3120 Professional Community-Based Nursing (4 credits)—*Prerequisite(s): Admission to the RN-BSN program.* This course is designed as a transition course for the registered nurse pursuing a baccalaureate degree in nursing.

PMNU 3220 Nursing Theory and Research (3 credits) — 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.

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.

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.

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.

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.

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.

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.

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 1000 Academic Advantage (2 credits)—This course helps the first-year student make the transition to the university, develop a better understanding of the learning process, and enhance essential academic skills. The course provides a support group for students in a critical transitional year by examining problems and issues common to the first year of college. *Elective credit only. Does not apply toward the major or minor requirements.*

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 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 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 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 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 (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 Modification (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 3200,3201 Principles of Psychological Research (4,0 credits)—*Prerequisite(s): PSYC 1310, PSYC 2311/12, and PSYC 2810.* Basic concepts, methodologies, statistical procedures, issues, and elements of scientific writing in psychological research. Four (4) credits of lecture and lab per week.

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 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 2810 (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 HDAL 2320 or EACS 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 HDAL 2320 or EACS 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(s): PSYC 1310 and BIOL 1110/11.* 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(s): PSYC 1310 and 2311/12.* 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(s): PSYC 1310 and 3010; 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(s): PSYC 1310 and 2311/12.* 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 or permission of instructor.* 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 4407/5507 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)—*Prerequisite(s): PSYC 1310.* The purpose of the course is to acquaint students with aspects of diagnosis, measurement, and treatment of child psychopathology.

PSYC 4707-17 Advanced Behavioral Neuroscience (4 credits)—*Prerequisite(s): PSYC 3030/31 and general biology.* 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, PSYC 2311/12, and PSYC 2810.* Refer to HDAL 4817.

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 and Prerequisite(s) see the Graduate Catalog

PSYC 5210	Statistical Methods	(3 credits)
PSYC 5220	Personality Theory	(3 credits)
PSYC 5230	Advanced Developmental Psychology—HDAL 5230..	(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 5911	Practicum in Mental Health: Therapy	(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)—Familiarize 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.

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 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 reviewed.

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 encountered by the family. 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 more prepared to 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, and social 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.

Curriculum is being revised contact the MPH Coordinator.

PUBH 5020	Philosophy of Public Health	(1 credit)
PUBH 5110	Assessment of Individual and Community Health	(3 credits)
PUBH 5120	Health Program Planning and Evaluation	(3 credits)
PUBH 5130	Consulting & Implementation of Health Prog. & Serv.	(3 credits)
PUBH 5150	Consulting in Organizations and Communities	(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 5400	Principles of Epidemiology	(3 credits)
PUBH 5401	Rural Health Issues	(3 credits)
PUBH 5500	Administration of Health Programs	(3 credits)
PUBH 5505	Managing Health Care Organizations	(3 credits)
PUBH 5510	Long Term Care Administration	(3 credits)
PUBH 5525	Health Services Organization and Delivery	(3 credits)
PUBH 5535	Health Policy, Politics and Analysis	(3 credits)
PUBH 5550	Human Resources Mgmt in Health Organizations	(3 credits)
PUBH 5590	Strategic Planning for Health Care	(3 credits)
PUBH 5600	Industrial Health Education	(3 credits)
PUBH 5620	Hazards in the Workplace	(6 credits)
PUBH 5850	Field Experience	(3 credits)
PUBH 5900	Grant and Proposal Development	(3 credits)

PUBH 5950	Research Seminar	(1-4 credits)
PUBH 5960	Thesis	(1-3 credits)
PUBH 5989	Cooperative Education	(1-3 credits)
PUBH 5990	Readings and Research	(1-3 credits)

**Public Relations
PUBR**

PUBR 2700 Introduction to Public Relations (3 credits)—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 3010 Radiation Physics (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 Radiobiology (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: 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): CUIAI 4210, CUIAI 4220, CUIAI 4310, and CUIAI 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 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.

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 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

READ 4827/5827 Storytelling Resource Evaluation (1-6 credits)—This course is designed to prepare the student to organize and participate in a storytelling festival

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 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 5230	Advanced Storytelling	(3 credits)
READ 5231	Advanced Diagnostic Procedures	(3 credits)
READ 5241	Practicum in Teaching Reading	(3 credits)
READ 5830	Storytelling Institutes	(3 credits)
READ 5840	Story Dramatization	(1-2 credits)
READ 5850	Story Performance	(1-3 credits)
READ 5860	Story Crafting	(1-3 credits)
READ 5870	Multicultural Storytelling	(1-3 credits)
READ 5880	Storytelling, Journal Editing, and Publishing	(1 credit)
READ 5890	Historical and Psychological Foundations	(3 credits)
	of Storytelling	
READ 5900	Independent Study in Reading	(3 credits)
READ 5960	Thesis	(3-6 credits)
READ 5990	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.

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.

RELI 3230 Eastern Religions (3 credits)—A study of religions whose origins were in the East: Hinduism, Buddhism, Confucianism, Taoism, and Zen.

RELI 3240 Hebrew Scriptures (3 credits)—*Prerequisite(s): RELI 2210, or permission of the instructor.* A historical and literary survey of the Hebrew Bible.

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.

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.

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.*

**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	(3 credits)
RTVF 5957	Topics in Broadcasting	(1-6 credits)

**Sports Management and Leisure Services
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 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 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 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 Sport Management (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 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.

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

SALM 5020	Sport in Society	(3 credits)
SALM 5200	Issues in Sport Management	(3 credits)
SALM 5220	Internship to Sport Management	(6 credits)
SALM 5230	Sport Marketing	(3 credits)
SALM 5330	Legal Issues	(3 credits)
SALM 5340	Risk Management and Assessment in Sport	(3 credits)

**Science Education
SCED**

SCED 3250 Elementary Science Education (3 credits)—*Prerequisite(s):* Completion of eight credit hours of science. Materials methods, activities, and content appropriate to the program of science in the elementary school.

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 CUI 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 1000 Academic Advantage (2 credits)—This course helps the first-year student make the transition to the university, develop a better understanding of the learning process, and enhance essential academic skills. The course provides a support group for students in a critical transitional year by examining problems and issues common to the first year of college. *Elective credit only. Does not apply toward the major or minor requirements.*

SOAA 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.

SOAA 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.

SOAA 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.

SOAA 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.

SOAA 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.

SOAA 2020 Social Problems (3 credits)—*Prerequisite(s):* SOAA 1020. Sociological study of major current problems confronted in American society and the beliefs that compound them.

SOAA 2040 Folk Culture in the Modern World (3 credits)—*Prerequisite(s):* SOAA 1020, SOAA 1240, or permission of instructor. 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.

SOAA/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.

SOAA 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.

SOAA 3030 Gender and Society (3 credits)—*Prerequisite(s): SOAA 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.

SOAA 3060 Medical Sociology (3 credits)—*Prerequisite(s): SOAA 1020 or permission of instructor.* 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.

SOAA 3070 Medical Anthropology (3 credits)—*Prerequisite(s): SOAA 1240, or permission of instructor.* 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.

SOAA 3080 Nutritional Anthropology (3 credits)—*Prerequisite(s): SOAA 1240.* 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.

SOAA 3110 Minorities (3 credits)—*Prerequisite(s): SOAA 1020 or permission of instructor.* 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.

SOAA 3150 Urbanization (3 credits)—*Prerequisite(s): SOAA 1020 or permission of instructor.* Processes of urbanization and the urban impact on rural life. the structure of the metropolis, segregation, slums, suburbs, mobility, disorganization, and cultural change.

SOAA 3210 Sociological Research (3 credits)—*Prerequisite(s): SOAA 1020 or permission of instructor.* Methods used in investigating and reporting social phenomena.

SOAA 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.

SOAA 3260 Visual Anthropology (3 credits)—*Prerequisite(s): SOAA 1240.* 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.

SOAA 3300 Deviant Behavior (3 credits)—*Prerequisite(s): SOAA 1020 or permission of instructor.* 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.

SOAA 3310 Criminology (3 credits)—*Prerequisite(s): SOAA 1020 or permission of instructor.* An analysis of the major sociological theories of crime causation, sociological aspects of types of offenders, and techniques of measuring crime.

SOAA 3320 Juvenile Delinquency (3 credits)—*Prerequisite(s): SOAA 1020 or permission of instructor.* A study of the extent, causes, treatment, and prevention of delinquency.

SOAA 3350 Social Statistics (3 credits)—*Prerequisite(s): MATH 1530.* An introduction to applied statistics in the field of sociology and related disciplines.

SOAA 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.

SOAA 3444 Data Analysis (3 credits)—*Prerequisite(s): MATH 1530, CSCI 1100, and SOAA 3210; or a comparable course with the approval of the instructor.* 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.

SOAA 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.

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): SOAA 1020, SOAA 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 4007 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.

SOAA 4017 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.

SOAA 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.

SOAA 4037 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).

SOAA 4057/5057 Community Sociology (3 credits)—*Prerequisite(s): SOAA 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.

SOAA 4087/5087 The Family in Transition (3 credits)—*Prerequisite(s): SOAA 1020 or permission of instructor.* An analysis of the changing family with emphasis on family theory.

SOAA 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.

SOAA 4257/5257 Power, Wealth, and Poverty (3 credits)—*Prerequisite(s): SOAA 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.

SOAA 4337/5337 Social Psychology (3 credits)—*Prerequisite(s): SOAA 1020 or permission of instructor.* Study of social interaction, the development of self, and the social construction of reality.

SOAA 4357/5357 Mass Communications and Popular Culture (3 credits)—*Prerequisite(s): SOAA 1020 or permission of instructor.* An examination of the impact of modern communications technology upon traditional lifestyles and world views, particularly entertainment during the 20th century.

SOAA 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.

SOAA 4507/5507 Sociology of the Aging (3 credits)—*Prerequisite(s): SOAA 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.

SOAA 4557/5557 Population (3 credits)—*Prerequisite(s): SOAA 1020 or permission of instructor.* Major population characteristics, trends, and problems, primarily those of the United States.

SOAA 4567/5567 Scottish Ethnology (3 credits)—A survey of Scottish ethnic and regional groups and their folk traditions.

SOAA 4627/5627 Ethnographic Field Work Techniques (3 credits)—*Prerequisite(s): SOAA 1020 or permission of instructor.* 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 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.

SOAA 4807/5807 Modern Social Theory (3 credits)—*Prerequisite(s): SOAA 1020 or permission of instructor.* 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

SOAA 4900 Independent Studies (1-3 credits)—*Prerequisite(s): Permission of instructor.*

SOAA/APST 4907 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/Anthropology (1-6 credits)

SOAA 4989-99 Cooperative Education (1-3 credits)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

SOAA 5050	Sociology of Education	(3 credits)
SOAA 5110	Contemporary Social Theory	(3 credits)
SOAA 5210	Sociological Research	(3 credits)
SOAA 5315	Seminar in Crime and Delinquency	(3 credits)
SOAA 5320	Program Evaluation	(3 credits)
SOAA 5444	Applied Data Analysis for the Social Sci.	(3 credits)
SOAA 5500	Topical Seminar	(3 credits)
SOAA 5600	Seminar in Medical Sociology	(3 credits)
SOAA 5620	Sociology of Age and The Life Course	(3 credits)
SOAA 5820	Skills in Applied Sociology and Anthropology	(3 credits)
SOAA 5850	Supervised Internship	(1-6 credits)
SOAA 5870	Internship Placement Report	(3 credits)
SOAA 5900	Independent Studies	(1-3 credits)
SOAA 5989-99	Cooperative Education	(1-3 credits)
SOAA 5990	Readings and Research	(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 Rural and 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-politico-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 Foundation Field I	(4 credits)
SOWK 5202 HBSE II	(3 credits)
SOWK 5203 SW Practice II	(3 credits)
SOWK 5430 Psychopathology	(3 credits)
SOWK 5205 Research I	(3 credits)
SOWK 5206 Foundation Field II	(4 credits)
SOWK 5303 AP/Individuals	(3 credits)
SOWK 5313 AP/Families	(3 credits)
SOWK 5306 AP Field I	(4 credits)
SOWK 5xxx Elective	(3 credits)
SOWK 5305 SW Research II	(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)

**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)—Intermediate Spanish: grammar review, oral practice, and writing. Emphasis on Hispanic culture and literature.

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) — *Prerequisites: SPAN 3003 and 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)—*Prerequisite: SPAN 3113.* Representative works from Spanish literature.

SPAN 3613 Survey of Spanish-American Literature (3 credits)—*Prerequisite: SPAN 3113.* Representative works from Spanish-American literature.

SPAN 3713 Hispanic Poetry (3 credits)—*Prerequisite: SPAN 3113.* Works of the principal poets of Spain and Spanish America.

SPAN 4007/5007 Golden Age Drama (3 credits)—*Prerequisite: SPAN 3113.* 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 3113.* 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)—*Prerequisite: SPAN 3113.* A study of the representative works of Miguel de Cervantes Saavedra, with special emphasis on the *Quijote*.

SPAN 4117/5117 Hispanic Cinema (3 credits)—*Prerequisite: SPAN 3113.* 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)—*Prerequisites: SPAN 3003 and 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)—*Prerequisites: SPAN 3003 and 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 3113.* Selected works by the principal 19th-century novelists and dramatists of Spain.

SPAN 4307/5307 The Generation of '98 (3 credits)—*Prerequisite: SPAN 3113.* 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 3113.* Selected works by the principal 20th century novelists and dramatists of Spain.

SPAN 4507/5507 Spanish Short Story (3 credits)—*Prerequisite: SPAN 3113.* Spanish and Spanish-American short stories from the 19th and 20th centuries.

SPAN 4607/5607 Modernist Movement in Spanish America (3 credits)—*Prerequisite: SPAN 3113.* A study of Rubén Darío, his contemporaries and followers.

SPAN 4707/5707 Spanish-American Theatre (3 credits)—*Prerequisite:* SPAN 3113. 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 3113. 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 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)—*Prerequisite(s):* SPCH 1300 or SPCH 2300 or SPCH 2330, or permission of instructor. 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)—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 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)—A study of communication insights and development of skills to achieve professional competence.

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)—*Prerequisite(s):* Permission of 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 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 4437/5437 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)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

SPCH 5200	Gender and 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 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

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. Fall, Spring, Summer

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. Fall

SPED 3365 Integrating Functional Skills into Curriculum (3 credits)—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. Fall

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

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. Spring

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

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.

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 4467/5467 Educating Persons with Emotional/Behavioral Disorders (3 credits)—This course presents an overview of educational procedures for teaching students with emotional/behavioral disabilities. An emphasis is placed on characteristics, assessment, and instructional strategies for teachers to use when instructing students who exhibit emotional/behavioral problems. Field experience is required.

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

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 Adaptations and Modifications for the Inclusive Classroom (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

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

SPED 4850 Student Teaching in Special Education (12 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)

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	Clinical 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.

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.

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

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.

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 equivalent.* 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.

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.

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.

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.

SURV 3520 Land Survey Systems (2 credits)—*Prerequisite(s): SURV 2550.* 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.

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.

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.

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.

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.

SURV 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.

SURV 4048 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.

SURV 4500 Senior Surveying Projects (2 credits)—*Prerequisite(s): Senior standing and more than twenty (20) hours in major.* Project oriented course that will demonstrate competence of graduating students. Completed projects will show graduates abilities to potential employers and indicate skills at graduation.

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.

SURV 4520 Survey Science Topics (3 credits)—*Prerequisite(s) or Corequisite(s): SURV 3510.* 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.

SURV 4537/5537 Land Boundary Location (4 credits)—*Prerequisite(s): SURV 3510 and SURV 3520; or three years experience in surveying or in real estate.* 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.

SURV 4547/5547 Land Subdivision and Platting (4 credits)—*Prerequisite(s): SURV 3510, SURV 3520, and 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.

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.

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.

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.

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)—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. 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(s): 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 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 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.

East Tennessee State University

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 3330.* The planning of an actual production for performance for practical development of the fundamentals, methods, and procedures of play direction.

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 (3-9 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 (2-6 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	(2-6 credits)
THEA 5960	Thesis in Speech-Theatre	(6 credits)
THEA 5990	Readings and Research	(6 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.

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.

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.

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.

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.* 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.

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 5557	Playwriting	(3 credits)
THEA 5607	Theatre Practicum	(1 credit)
THEA 5637	Theatre Management	(3 credits)

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 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 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 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.

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.

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.

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.

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 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.

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 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 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 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 concepts are emphasized. In addition, a limited number of advanced concepts such as pointers, recursion, and C# are discussed. The student will write short segments of C++ code that demonstrates command and understanding of the above concepts.

CMT 1010 Networking and PC Communications (3 credits)—*Prerequisite(s): 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 e-mail.* This course introduces basic concepts of PC communications, telecommunications and networking. It provides an overview of terminology and 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 (2 credits)—*Prerequisite(s): This course is for first-time online learners who are willing to learn.* In this course, we will study the best practices for success in college and learning online by using technology smartly, succeeding in workplace situations skillfully, using interpersonal communications respectfully, and developing self-management practices expertly.

COMM 3010 Integrated Corporate Communication (3 credits)—*Prerequisite(s): 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

CS 3700 Software Analysis and Design (3 credits)—*Prerequisite(s): Proficient with programming in at least one language (C/C++/Java) is required.* Refer to course syllabus for additional requirements. Practical and Professional Issues in Computer Science, Design of Algorithms, Foundations of Computer Science. The course teaches students various stages of software development. Topics include software systems analysis, software

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.

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 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.

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 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 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.

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.

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 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 though students' writing. Research skills and documentation will be introduced.

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 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 3134 Computers, Writing, and Literature (3 credits)—*Corequisite(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.

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.

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.

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.

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.

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.

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 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.

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.

MUS 1030 Music Appreciation (3 credits)—An introduction to the basic elements of music combined with a survey of Western art music.

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.

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.

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 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.

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.

SOC 451 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.

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.

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 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.

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.

East Tennessee State University

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.
- Anderson, Gordon K. (2004) Professor** **Chemistry**
Dean, College of Arts and Sciences
 B.Sc., (1976) and Ph.D., (1976), University of Glasgow, UK.
- Antkiewicz, Henry J. (1988) Professor** **History**
 B.A., 1963 and M.A., 1967, University of Michigan;
 Ph.D., 1976, Ohio State University.
- 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.
- Bailey, Roger C. (1973) Professor** **Psychology**
Faculty Emeritus
 B.A., 1964, Concord College;
 M.A., 1966, West Virginia University;
 Ph.D., 1973, Oklahoma State 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.
- Baxter, Colin F. (1971) Professor** **Chair, History**
 B.S., 1961, East Tennessee State University;
 M.A., 1963 and Ph.D., 1965, University of Georgia.
 Distinguished Faculty Award, 1995.
- 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.
- 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.
- Blaustein, Richard J. (1970) Professor** **Sociology and Anthropology**
Coordinator, Appalachian Studies Minor
 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.
- Brewster, Karen (2000) Assistant Professor** **Communication**
 B.A., 1973, East Tennessee State University;
 M.F.A., 1982, Michigan State University.
- Briley, John D. (2001) Associate Professor** **Political Science**
 B.A., 1978, M.P.A., 1981, and Ph.D., 1994, University of Tennessee.
- 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) Assistant Professor** **Psychology**
 B.S., 1992, University of Oklahoma;
 M.S., 1995 and Ph.D., 1998, University of Kentucky.
- Brown, Stephen E. (1979) Professor** **Criminal Justice and Criminology**
 B.A., 1973 and M.S., 1975, Eastern Kentucky University;
 Ph.D., 1979, University of Maryland.
- 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.
- Burnley, Cynthia S. (1969) Associate Professor** **Sociology and Anthropology**
Director, Outcomes Assessment
 B.S., 1968, Tennessee Technological University;
 M.A., 1970 and Ph.D., 1979, University of Tennessee.
- Butler, Nickolas M. (1994) Assistant Professor** **Mathematics**
 B.A., 1970 and M.A., 1975, University of Alabama.
- Cajka, Karen (2004) Assistant 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.mn
- Caton, Benjamin D. (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) Associate 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, 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.
- Close, David M. (1978) Professor** **Chair, Physics, Astronomy, and Geology**
 A.B., 1964, Franklin and Marshall College;
 M.S., 1967, West Virginia University;
 Ph.D., 1973, Clark University.
 ETSU Foundation Research Award, 1988.
- Clements, Andrea D. (1995) Associate Professor** **Psychology**
 B.S., 1982, M.A., 1984 and Ph.D., 1991, University of Alabama.
- 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**
 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) Instructor** **Sociology and Anthropology**
B.S., 1976, and M.A., 1980, East Tennessee State University.
- Copp, Martha (1993) Associate 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;
M.A., 1966, University of Notre Dame;
Ph.D., 1973, University of Missouri.
- 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) Assistant 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) Associate Professor** **Communication**
Artist in Residence
B.A., 1963, LaSalle University;
M.S., 1968, Temple University.
- Crowe, Martha B. (1965) Assistant Professor** **English**
A.B., 1963, King College;
M.A., 1965, East Tennessee State University.
- 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) Assistant Professor** **Social Work**
B.A., 1982, University of Michigan-Flint;
M.S.W., 1988, University of Michigan;
Ph.D., 1995, Rutgers University.
- Davidson, Tammy A. (1998) Assistant Professor** **Chemistry**
B.S., 1992, Denison University;
Ph.D., 1997, University of Florida.
- 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.
- Day, Ronnie M. (1968) Professor** **History**
Faculty Emeritus
B.A., 1963, Cumberland College;
M.A., 1965 and Ph.D., 1971, Texas Christian University.
- 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) Associate 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 & 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) Associate Professor** **Chair, Psychology**
B.A., 1985, University of Toledo;
M.A., 1987 and Ph.D., 1990, Miami University.
- Dorgan, Kelly (2003) Assistant 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** **Chair, Art and Design**
B.S., 1973, Madison College;
M.F.A., 1983, Radford 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.
- 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.
- Fawzy, Wafaa M. (2005) Assistant Professor** **Chemistry**
B.S., 1974 and M.S., 1979, Alexandria University;
Ph.D., 1986, Michigan State University.
- Flanary, Adrian 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) Associate 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** **Physics, Astronomy, and Geology**
B.S., 1991, and M.S., 1994, Beijing University;
M.S., 2002, and Ph.D., 2002, University of Minnesota.
- Gerard, Mira (2001) Assistant Professor** **Art and Design**
B.F.A., 1991, Indiana University;
M.F.A., 2001 University of Georgia.
- Giles, Ronald K. (1983) Professor** **English**
B.A., 1968, University of Alabama;
M.Ed., 1974, Livingston University;
Ph.D., 1981, Auburn University.
- Gillespie, Wayne (2001) Assistant 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) Assistant Professor** **Physics, Astronomy, and Geology**
B.S., 1981, Brown University;
Ph.D., 1992, University of Texas.
- Godbole, Anant (2000)** **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.
- Goyal, Arun (2003) Assistant Professor** **Biological Sciences**
B.S., 1977, Kumaon University, India;
M.S., 1981, G.B. Pant University, India;
Ph.D., 1987, Wollongong University, Australia.
- Graves, Travis H. (2005) Assistant Professor** **Art and Design**
B.F.A., 1996, Iowa State University;
M.F.A., University of Wisconsin-Madison.

East Tennessee State University

- 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.
- 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.
- Gross, Steven (2001) Assistant Professor** **English**
 B.A., 1976, University of Utah;
 M.A., 1996 and Ph.D., 2000, University of South Carolina.
- Grover, Kathleen H. (1976) Assistant Professor** **English**
 B.A., 1964, Florida State University;
 M.A., 1967, Memphis State University.
- Haley, Darryl E. (1999) Assistant Professor** **English**
 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
 Ph.B., 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**
 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.
- 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.
- 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;
 Ph.D., 2000, University of Maryland.
- Hayes, Tammy (1994) Assistant Professor** **Communication**
 B.S., 1987; M.A., 1998, 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.
- Helfgott, Michel (2004) Assistant Professor** **Mathematics**
 B.S., 1972, Universidad de San Marcos;
 M.S., 1994, Northern Arizona University;
 Ed.D., 1997, Montana State University.
- Henson, Gary D. (1989) Assistant Professor** **Physics, Astronomy, and Geology**
 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** **English**
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.
- Hillhouse, Joel (1990) Associate Professor** **Psychology**
 B.S., 1981, Valparaiso University;
 Ph.D., 1989, State University of New York-Albany.
- Hilliard, Jerry L. (1984) Professor** **Communication**
Faculty Emeritus
 B.A., 1962 and M.A., 1969, Kent State University;
 Ph.D., 1978, University of Tennessee.
- Ho, Chu-Ngi (1983) Associate Professor** **Chemistry**
 B.S., 1975, Denison University;
 Ph.D., 1980, University of Washington.
- Holland, Mark (1986) Associate Professor** **English**
 B.A., 1972, Heidelberg College;
 M.A., 1977 and Ph.D., 1984, Miami University.
- Holleran, David W. (2001) Assistant Professor** **Criminal Justice and Criminology**
 B.S., 1995, Trenton State College;
 M.A., 1998, East Tennessee State University;
 Ph.D., 2001, University of Nebraska-Omaha.
- Holmes, Thomas Alan (1996) Associate Professor** **English**
 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.
- Huang, Janice (1995) Associate Professor** **Mathematics**
Faculty Emerita
 A.B., 1963, Brown University;
 M.A. 1965 and Ph.D., 1992, University of Illinois.
- Hull, Vida J. (1986) Associate Professor** **Art and Design**
 B.A., 1968, Rollins College;
 M.A., 1970, Ohio State University;
 Ph.D., 1979, Bryn Mawr College.
- Hungate, Christa I. (1981) Assistant Professor** **Foreign Languages**
 B.A., 1977, University of Alabama;
 M.A., 1984, University of Northern Iowa.
- Hurd, Mary G. (1966) Associate Professor** **English**
Director, Film Studies Minor
 B.S., 1962 and M.A., 1965, East Tennessee State University.
- Ignace, Richard (2003) Assistant Professor** **Physics, Astronomy, and Geology**
 B.S., 1991, Indiana University;
 M.S., 1993, M.S., 1994, and Ph.D., 1996, University of Wisconsin.
- Jablonski, T. Henry, Jr. (1966) Associate Professor** **Mathematics**
Faculty Emeritus
 B.S., 1961, Maryville College;
 M.A., 1965, George Peabody College for Teachers;
 M.P.H., 1966, University of North Carolina.
- Jarrah, Abdul S. (2002) Assistant Professor** **Mathematics**
 B.S., 1992 and M.S., 1995, Yarmouk University, Jordan;
 Ph.D., 2002, New Mexico 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) Lecturer** **Communication**
 B.S., 1979, East Tennessee State University.
- Jiang, Mian (2001) Assistant Professor** **Chemistry**
 B.S., 1984, M.S., 1987, and Ph.D., 1991, Wuhan University, China.
- Johnson, Donald R. (1983) Professor** **English**
 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) Assistant Professor** **Biological Sciences**
M.S., 1987 and Ph.D., 1997, Jozsef Attila University.
- Kasmai, Hamid S. (1987) Professor** **Chemistry**
Faculty Emeritus
B.S., 1961, Teacher's College, Tehran, Iran;
Ph.D., 1969, University of Wisconsin.
- Kerley, Lyndell M. (1967) Professor** **Mathematics**
B.S., 1964 and M.A., 1965, Appalachian State University;
Ph.D., 1977, University of Tennessee.
- 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.
- Kinsler, 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.
- 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.
- 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.
- 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.
- Lawson, Linda M. (1987) Professor** **Mathematics**
Faculty Emerita
B.S., 1964, M.S., 1969 and Ph.D., 1973, 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) Associate Professor** **Biological Sciences**
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.
- Lo, See-Yin "Oliver" (1999) Associate Professor** **Music**
Higher Diploma, 1988, Hong Kong Polytechnic University;
Advanced Diploma, 1992, The Hong Kong Academy for Performing Arts;
M.M., 1996, and D.M.A., 2000, Eastman School of Music.
- Logan, David G. (1979) Professor** **Art and Design**
Faculty Emeritus
B.S., 1963, University of Wisconsin;
M.A., 1967, University of Illinois;
M.F.A., 1968, University of Wisconsin.
- Luttermoser, Donald G. (1996) Associate Professor** **Physics, Astronomy,**
and Geology
B.S., 1981, University of Michigan;
M.A., 1983, Wayne State University;
M.A., 1985 and Ph.D., 1988, Indiana University.
- MacAvoy, Leslie (2000) Associate Professor** **Philosophy and Humanities**
B.A., 1988, Swarthmore College;
Ph.D., 1998, McGill University.
- 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.
- Marx, David (1995) Professor** **Psychology**
B.S., 1966, M.A., 1969, and Ph.D., 1972, Loyola 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) Associate 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) Associate 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**
Faculty Emeritus
B.A., 1962, Westminster College;
M.A., 1969 and Ph.D., 1974, University of Missouri.
- McLain, Raymond W. (2000) Associate Professor** **Center for Appalachian Studies**
Director, Bluegrass, Old Time, and Country Music
B.A., 1973, Berea College.

East Tennessee State University

Messmer, Laughton (2002) Lecturer Communication B.A., 1997, Truman State University; M.A., 1999, Indiana State University.	Olson, Charles S. "Ted" (1999) Associate Professor Center for Appalachian Studies B.A., 1982, University of Minnesota; M.A., 1991, University of Kentucky; Ph.D., 1997, University of Mississippi.
Mijeski, Kenneth J. (1971) Professor Political Science B.A., 1966, Florida State University; Ph.D., 1971, University of North Carolina.	Page, Melvin E. (1987) Professor History B.A., 1966, American University; M.A., 1968, Howard University; Ph.D., 1977, Michigan State University.
Miller, Hugh A., III (1988) Associate Professor Biological Sciences B.S., 1979, East Tennessee State University; Ph.D., 1986, University of Tennessee.	Paluzzi, Rebecca (1994) Associate Professor Music B.M., 1977 and M.M., 1979, University of Tennessee; Diploma, 1986, Talent Education Institute.
Miller, Larry S. (1984) Professor Chair, 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.	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.
Mills, James C. (1971) Professor Art and Design Faculty Emeritus A.A., 1960, Spartanburg Methodist College; B.A., 1963, Berea College; M.A.T., 1964, Oberlin College; Ph.D., 1972, University of Kansas.	Parker, Herbert M. (2005) Assistant Professor Communication B.F.A., 1977, Stephens College; M.F.A., 1980, Ohio College.
Mink, Patricia (2003) Assistant Professor Art and Design B.A., 1981, Kalamazoo College; M.F.A., 1996, Eastern Michigan 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.
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.	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.
Mooney, James J. (1970) Professor Communication A.B.J., 1969 and M.A., 1970, University of Georgia; Ph.D., 1984, University of Tennessee.	Powell, Harry D. (1965) Senior Affiliate Faculty Physics B.S., 1960, Davidson College; M.S., 1962 and Ph.D., 1965, Clemson University.
Moore, Darrell J. (1989) Associate Professor Biological Sciences B.A., 1975 and Ph.D., 1983, University of Texas-Austin.	Powers-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.
Morefield, John D. (1983) Assistant Professor English AB, 1962, Davidson College; M.A., 1963, University of Florida.	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.
Murray, Catherine (1995) Associate Professor Art and Design B.A., 1982, Portland State University; M.F.A., 1987, University of Montana.	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.
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.	Razskazovskiy, Yury V. (2002) Assistant Professor Physics, Astronomy, and Geology B.S., 1980 and Ph.D., 1984, Moscow 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.	Renfro-Fernandez, C. Lausanne (2004) Assistant Professor Psychology B.A., (1996), St. Edwards University; M.A., (2000), New Mexico State University.
Newcomer, Daniel (2000) Assistant Professor History B.A., 1993 and M.A., 1995, New Mexico State; Ph.D., 2000, Texas Christian University.	Rice, Joseph G. (1995) Instructor Coordinator, Honors College B.A., 1983, Wheeling Jesuit University; M.F.A., 1988, McNeese State University.
Niederberger, Maria (1999) Associate Professor Music B.S., 1981, University of California, Davis; Ph.D., 1991 Brandeis University.	Roberts, Charles (1990) Professor Chair, Communication B.A., 1965, Davidson College; M.A., 1967 and Ph.D., 1980, Temple University.
Nimick, Marci Salyer (2005) Lecturer Communication B.A., 1990 and M.A., 1002, Morehead State 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.
Norwood, Frederick (1987) Associate Professor Mathematics B.A., 1966 and Ph.D., 1979, University of Southwestern Louisiana; M.S., 1969, University of California-Riverside.	Royalty, Dale M. (1971) Associate Professor History B.A., 1964, Kenyon College; M.A., 1967 and Ph.D., 1971, University of Kentucky.
Odom, James L. (1971) Professor History Faculty Emeritus B.A., 1963, Birmingham Southern College; M.A., 1965 and Ph.D., 1968, University of Georgia. Distinguished Faculty Award, 1997.	Rushing, Clarence A., Jr. (1969) Associate Professor History B.A., 1963 and M.A., 1965, Tennessee Technological University.
O'Donnell, Kevin E. (1993) Professor English B.A., 1984, Kent State University; M.A., 1987 and Ph.D., 1993, University of Wisconsin-Milwaukee.	Sanderbeck, Rande P. (1985) Assistant Professor Music B.M., 1978 and M.M., 1985, West Virginia University; D.M.A., 1997, University of Kentucky.
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.	Sawyer, Robert E. (2001) Associate Professor English B.A., 1979, Stetson University; M.A., 1987, Western Carolina University; Ph.D., 1997, University of Georgia.
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.	

- Schmitt, Dale J. (1969) Professor** 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** Physics, Astronomy, and Geology
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
- Shafer, Melissa (1999) Assistant Professor** Communication
B.A., 1983, Southern Illinois University;
M.F.A., 1985, Southern Illinois University-Edwardsville.
- Sheek, Angie (2004) Lecturer** Communication
B.A., 1997 and M.A., 2001, East Tennessee State University.
- Sherrill, Anne (1982) Professor** English
Faculty Emerita
B.A., 1960 and M.A., 1969, University of Texas-Austin;
Ph.D., 1981, University of Iowa.
- Shields, Alan (2005) Assistant Professor** Psychology
B.A., 1992, University of Dayton;
Ph.D., 2003, University of Montana.
- Simon, Leonore (1999) Associate 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.
- Slap, Andrew L. (2002) Assistant 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) Assistant Professor** Physics, Astronomy, and Geology
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.
- Stanley, Isabel Bonnyman (1983) Professor** English
B.A., 1977 and M.A., 1982, East Tennessee State University;
Ph.D., 1990, University of Tennessee.
- Stephens, Daryl (1994) Assistant Professor** Mathematics
B.S., 1983 and M.Ed., 1987, University of North Texas;
M.S., 1993, Texas Woman's University.
- 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.
- Sumner, Charles Edwan, Jr. (2006)** Chemistry
B.S., 1976, East Tennessee State University;
Ph.D., 1981, University of Texas.
- 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, Astronomy, and Geology
B.S., 1963, East Tennessee State University
M.S., 1974, University of Tennessee.
- Tottle, Jack (1994) Associate Professor** Center for Appalachian Studies
Faculty Emeritus
B.A., 1963, Dartmouth College.
- 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) Assistant Professor** Physics, Astronomy, and Geology
B.S., 1995, Bowling Green University;
M.S., 1997, Fort Hays State University;
Ph.D., 2001, University of Iowa.
- Walters, Gary M. (1971) Associate Professor** Physics, Astronomy, and Geology
Assistant Dean for Distance Education, Continuing Studies
B.S., 1963 and Ph.D., 1967, University of Tennessee.
- Wardeska, Jeffrey G. (1967) Professor** Chair, Chemistry
B.S., 1963, Mount Union College;
Ph.D., 1967, Ohio University.
Distinguished Faculty Award, 1996.
- Watson, Elwood D. (1997) Associate 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** 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.
- Whitelaw, Michael (2003) Associate Professor** Physics, Astronomy, and Geology
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.
- Williams-Gebhardt, Stacey Lynne (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 Parker (2004) Assistant Professor** Communication
B.A., 1969, University of Iowa;
M.S., 1974, and Ph.D., 1977, University of Kansas.
- Wolfe, Margaret R. (1969) Professor** History
ETSU at Kingsport
Faculty Emerita
B.S., 1967 and M.A., 1969, East Tennessee State University;
Ph.D., 1974, University of Kentucky.
Distinguished Faculty Member, East Tennessee State University, 1977;
ETSU Foundation Research Award, 1979.
- Yampolsky, Lev (2001) Assistant Professor** Biological Sciences
M.S., 1986, Moscow State University;
Ph.D., 1992, N.I. Vavilov Institute.
- Zinser, Otto (1970) Professor** Psychology
Faculty Emeritus
B.S., 1964, Trinity College;
M.A., 1968 and Ph.D., 1970, Texas Christian University.

**COLLEGE OF BUSINESS AND TECHNOLOGY
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- Alavi, Jafar (1985) Professor** **Economics, Finance, Geography, and Urban Studies**
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** **Interim Chair, Economics, Finance, Geography, and Urban Studies**
B.A., 1982, and M.B.A., 1990, University of Scranton;
M.A., 1994 and Ph.D., 1995, University of Alabama.
- Bayes, Paul E. (1984) Professor** **Chair, Accountancy**
B.S., 1965, University of Kentucky;
M.S., 1968, Indiana State University;
D.B.A., 1983, University of Kentucky.
- 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.Acc., 1986 and Ph.D., 1994, Virginia Tech;
CPA, North Carolina.
- Chen, Ke (2006) Assistant Professor** **Economics, Finance, Geography, and Urban Studies**
B.S., 1998, Nanjing University;
M.S., 2001, Beijing Normal University;
Ph.D., 2006, University of Cincinnati.
- Chu, Ting-Heng (2001) Assistant Professor** **Economics, Finance, Geography, and Urban Studies**
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 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, Finance, Geography, and Urban Studies**
B.A., 1973, University of Tennessee;
M.A., 1975 and Ph.D., 1978, University of Delaware.
- Driver, Michaela C. (1998) Associate Professor** **Management and Marketing**
B.S., 1993, M.A., 1995 and Ph.D., 1997, University of Alabama.
- Everett, Michael David (1977) Professor** **Economics, Finance, Geography, and Urban Studies**
B.A., 1960 and Ph.D., 1967, Washington University.
- Felker, Lon S. (1988) Professor** **Economics, Finance, Geography, and Urban Studies**
A.B., 1968, University of South Carolina;
M.A., 1969 and Ph.D., 1975, Michigan State 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**
B.A., 1970 and M.S.P.A., 1976, University of Hartford;
M.B.A., 1983 and D.B.A., 1986, Boston University.
- Hipple, F. Steb (1982) Professor** **Economics, Finance, Geography, and Urban Studies**
B.A., 1962 and M.A., 1964, Trinity University;
Ph.D., 1972, Southern Methodist University.
- Hogan, Mary Beth (2003) Associate Professor** **Management and Marketing**
B.S., 1981 and M.S., 1982, University of Southern Mississippi;
Ph.D., 1987, University of Tennessee, Knoxville.
- Justice, Robert** **Director, Small Business Development Center**
B.B.A., 1974 and M.B.A., 1981, Morehead State University.
- Loess, Kurt H. (1998) Assistant Professor** **Management and Marketing**
B.A., 1977, The College of Wooster;
M.B.A., 1987 and Ph.D., 1998, Case Western Reserve University.
- Mackara, W. Frederick (1975) Associate Professor** **Economics, Finance, Geography, and Urban Studies**
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.
- Marchioni, Michael P. (1976) Associate Professor** **Economics, Finance, Geography, and Urban Studies**
B.A., 1963, Montclair State College;
M.A., 1968, Louisiana State University;
Ph.D., 1971, University of Cincinnati.
- Mason, W. Joe Jr. (1984) Associate Professor** **Economics, Finance, Geography, and Urban Studies**
B.S., 1977, East Tennessee State University;
M.B.A., 1978, University of Tennessee;
Ph.D., 1987, University of South Carolina.
- 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.
- 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.
- Neal, Janet D. (2003) Assistant Professor** **Management and Marketing**
B.S., 1985, Radford University;
M.B.A., 1991 and Ph.D., 2000, Virginia Polytechnic Institute and State University.
- 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
- Price, Kelly Blake (2006) Associate 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 and Discipline
B.B.A., 1967, M.B.A., 1970 and Ph.D., 1979, Georgia State University.
- Rochelle, Carolyn F. (2004) Lecturer** **Economics, Finance, Geography, and Urban Studies**
B.S., 1975, Tennessee Technological University;
M.B.A., 1989, East Tennessee State University.
- Ryman, Joel A. (2003) Assistant 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) Lecturer** **Economics, Finance, Geography, and Urban Studies**
B.S., 1983 and Ph.D. 1991, Virginia Polytechnic Institute & State University.

Shemwell, Donald J. (1993) Associate Professor Management and Marketing
B.S., 1979 and Ph.D., 1993, Florida State University.

Smith, Jon L. (1980) Associate Professor Economics, Finance,
Geography, and Urban Studies
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.

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) Assistant Professor Management and Marketing
B.S., 1987, M.S., 1993 and Ph.D., 1999,
Virginia Polytechnic Institute and State University.

Trogen, Paul C. (1995) Associate Professor Economics, Finance,
Geography, and Urban Studies
Director, Master of Public Administration Program
B.A., 1976, University of St. Thomas;
M.A., 1991, Mankato State University;
Ph.D., 1995, Florida State University.

Turner, Craig (2002) Assistant Professor Management and Marketing
B.S., 1981, and M.B.A., 1990, University of Central Florida;
Ph.D., 1999, University of Tennessee.

Warren J. Harold (1969) Associate Professor Economics, Finance,
Geography, and Urban Studies
B.S., 1961, Bowling Green University;
Ph.D., 1969, Oklahoma State University.

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.

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

Acuff, Robert V. (1982) Professor Family and Consumer Sciences
Director, Nutrition Center
B.S., 1974, Louisiana State University;
M.S., 1977 and Ph.D., 1982, University of Tennessee.

Alandt, Gigi M. (2002) Assistant Professor Technology and Geomatics
B.F.A., 1987, University of Michigan;
M.A., 1994, Ohio State University.

Ali, Tariq A. (2003) Assistant Professor Technology and Geomatics
B.S., 1993, University of Khartoum;
M.S., 1999 and Ph.D., 2003, Ohio State University.

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) Associate Professor 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 Family and Consumer Sciences
B.S., 1995, University of Tennessee;
M.S., 2005, East Tennessee State University.

Blair, David L. (2004) Assistant Professor Computer and Information Sciences
B.S., 1999, East Tennessee State University;
M.S., 2004, Nova Southeastern University.

Blanton, William Hugh (1999) Assistant 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.

Brown, Amelia Gail (1979) Professor Family and Consumer Sciences
Associate Dean for Transfer Articulation
B.S., 1969, East Tennessee State University;
M.S., 1971, University of Tennessee;
Ph.D., 1975, Kansas State University.

Burdick, Kent (1999) Instructor Technology and Geomatics
B.S., 1988 and M.A., 1993, East Tennessee State University.

Burke III, Samuel J. (2002) Instructor Computer and Information Sciences
B.S., 1982 and M.S., 2001, East Tennessee State University.

Chang, Guangshu 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) Associate Professor 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.

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 AFG Chairholder,
Chair of Excellence in Business and Technology
B.S.E.E., 1964, M.S.A.E., 1965, and Ph.D., 1969,
University of Connecticut.

Disque, Ann (2001) Instructor Family and Consumer Sciences
B.A., 1978, St. Andrews Presbyterian College;
M.Ed., 1997, East Tennessee State University.

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.

Gotterbarn, Donald W. (1990) Professor Computer and Information Sciences
B.A., 1964, Hofstra University;
M.A., 1970 and Ph.D., 1971, University of Rochester.

East Tennessee State University

- Gunter, Charles R., Jr. (1964) Associate Professor** Technology and Geomatics
B.S., 1962, Middle Tennessee State University;
M.A., 1963, University of Tennessee.
- Hemphill, William K. (1992) Assistant Professor** Technology and Geomatics
B.S.M.E., 1981, University of Tennessee-Knoxville;
M.S., 1992, East Tennessee State University.
- Hriso, Peter (2002) Assistant Professor** Technology and Geomatics
B.S., 1992, University of Southern Indiana;
M.F.A., 1994, Ohio 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.
- Jenkins, Steven L. (2002) Assistant Professor** Computer and
Information Sciences
B.A., 1989, East Tennessee State University;
B.S., 1995, Iowa State University.
- Jennings, David (2002) Instructor** Technology and Geomatics
B.S., 1998 and M.S., 2002, East Tennessee State University.
- Johnson, Keith V. (1993) Associate Professor** Chair, Technology and Geomatics
B.S., 1987 and M.S., 1988, North Carolina A&T State University;
Ph.D., 1993, Ohio State University.
- Kridler, Jamie Branam (1997) Professor** Family and Consumer Sciences
B.S., 1976 and M.S., 1977, University of Tennessee;
Ph.D., 1985, Ohio State University.
- Langenbrunner, Mary (1993) Associate Professor** Family and Consumer Sciences
B.S., 1974 and M.S., 1976, University of Kentucky;
Ph.D., 1986, University of Tennessee.
- Laws, Michael (2001) Assistant Professor** Computer and Information Sciences
B.A., 1990 and M.S., 1999, University of Southern Mississippi.
- Lewis, Angela Radford (2004) Associate Professor** Chair, Family and
Consumer Sciences
B.S., 1984, B.S., 1987, and M.V.T.E., 1996, Middle Tennessee State University;
Ph.D., 2003, University of Tennessee.
- Lowe, Elizabeth (1999) Assistant Professor** Family and Consumer Sciences
B.S., 1974 and M.S.Ed., 1982, University of Tennessee.
- 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.
- Nave, Jerry (2001) Assistant Professor** Technology and Geomatics
B.S., 1986, M.S., 1999, and Ed.D., 2005, East Tennessee State University.
- Nehring, Nancy (1988) Associate Professor** Family and Consumer Sciences
B.S., 1972 and M.S., 1977, University of Wisconsin-Stevens Point;
Ph.D., 1993, Virginia Polytechnic Institute & State University.
- Parker, Charles D. (1986) Assistant Professor** Technology and Geomatics
B.S., 1978 and M.S., 1982, Murray State University.
- Peplies, Robert W. (1966) Professor** Technology and Geomatics
Faculty Emeritus
B.S., 1956 and M.A., 1960, Northern Illinois University;
Ph.D., 1965, University of Georgia.
- Pfeiffer, Phillip E., IV (1996) Associate 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.
- Pleasant, James C. (1966) Professor** Computer and Information Sciences
Faculty Emeritus
B.S., 1958 and M.A., 1960, East Carolina University;
Ph.D., 1965, University of South Carolina.
- 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.
- Riser, Robert Richard (1977) Professor** Computer and Information Sciences
Faculty Emeritus
B.S., 1961, Tusculum College;
M.S., 1965, Stevens Institute of Technology.
- Roach, Jeffrey W. (2002) Assistant Professor** Computer and Information Sciences
B.S., 1995, University of Technology, Jamaica;
M.S., 2000, East Tennessee State University.
- Roberts, Anna D. (1982) Professor** Family and Consumer Sciences
B.S., 1974, East Tennessee State University;
Ph.D., 1990, University of North Carolina, Greensboro.
- Sanderson, Donald B. (1993) Associate 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.
- Schaefer, Alison (2002) Assistant Professor** Family and Consumer Sciences
B.S., 1980, Winthrop College;
M.S., 1992, North Dakota State University.
- Sims, Joseph P. (2000) Associate 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, 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.
- Story, Charles H. (1965) Professor** Technology and Geomatics
Faculty Emeritus
B.S., 1961, Murray State University;
M.S.Ed., 1965, Southern Illinois University;
Ed.D., 1970, Texas A&M University.
- Tarnoff, David (1999) Assistant Professor** Computer and Information Sciences
B.S., 1987 and M.S. 1991, Virginia Polytechnic Institute.
- Thomas, Neil A. (1999) Assistant Professor** Computer and Information Sciences
B.S., California State University;
M.S., East Tennessee State University;
Ph.D., University of Tennessee, Knoxville.
- Tillman, Primus J. (1999) Assistant Professor** Technology and Geomatics
B.A., 1984, University of Memphis;
M.A., 1990-Memphis College of Arts.
- Tilson, James Glenn (1993) Instructor** Technology and Geomatics
B.S., 1963, East Tennessee State University;
M.S., 1974, University of Tennessee.
- 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.
- Whitten, Barry (2001) Assistant Professor** Technology and Geomatics
B.S., 1997 and M.S., 1998, Tennessee Technological 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.
- Yuan, Qing (2001) Associate Professor** Computer and Information Sciences
B.A., 1978 and M.A., 1982, Northeast Teachers' University;
M.S., 1984 and Ed.D., 1998, East Tennessee State University.

CLEMMER COLLEGE OF EDUCATION

- Ayres, Christopher A. (1973) Assistant 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.

- Bettis, Glenn E. (2000) Senior Affiliate Faculty** Educational Leadership and Policy Analysis
 B.S., and M.S., East Tennessee State University;
 Ph.D., Ohio 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.
- Broderick, Jane T. (2003) Assistant 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.
- 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.
- 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.
- Chisholm, Judith (2004) Instructor** University School
 B.S., 1970, Elizabethtown College;
 M.S., 1973, University of Pennsylvania.
- Coates, Thomas E. (1998), Associate Professor** Kinesiology, Leisure and Sport Sciences
 B.A., 1971, Mars Hill College;
 M.A., 1974, Western Carolina University;
 D.A., 1981, Middle Tennessee State University;
 M.P.R.T.M., 1992, Clemson University.
- 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.
- 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.
- Cradic, Sharon J. (2002) Instructor** University School
 B.S., 1992, Lander College;
 M.Ed., 1994, East Tennessee State University;
 M.Ed., 1998, Milligan College.
- Cummings, Rhona S. (1991) Associate Professor** Curriculum and Instruction
 B.A., 1972, Connecticut College;
 M.Ed., 1973, University of North Dakota;
 Ed.D., 1988, University of Houston.
- Daniels, Harold L. (2000) Assistant 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.
- DeFrieze, Deborah (2003) Assistant Professor** Director, University School
 B.S., 1972, Bowling Green State University;
 M.Ed., 1991, Ed.S., 1993; Ed.D., 1997, University of Georgia.
- Disque, J. Graham (1994) Associate 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.
- 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.
- 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.
- Floyd, Susanna M. (1995) Instructor** University School
 B.A., 1972, Tulane University;
 M.A., 1979 and Ed.D., 1989, East Tennessee State University.
- 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.
- Frye, Charles (2002) Instructor** University School
 B.S., 1978, M.S., 1980, and Ed.D., 1996, University of Tennessee-Knoxville.
- 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.
- Gemmer, Kathryn R. (1998) Instructor** University School
 B.S., 1987 and M.S., 1989, University of Hawaii.
 National Board Certified Teacher (2001).
- 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.
- Gordon, Anthony (1999) Instructor** University School
 B.S., 1989, Western Carolina University.
- Govett, Aimee L. (2003) Assistant Professor** Curriculum and Instruction
 B.A., 1988, M.A., 1996, and Ph.D., 2001, West Virginia 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.
- Isbell, Rebecca T. (1975) Professor** Human Development and Learning
Director, Center for Early Childhood Learning and Development
Faculty Emerita
 B.S., 1964, University of Tennessee;
 M.A., 1973, East Tennessee State University;
 Ed.D., 1979, University of Tennessee.
 ETSU Distinguished Faculty Award, 1994.
- 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).

East Tennessee State University

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.	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.
Knight, Terri C. (1988) Instructor 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).	Mozen, Diana M. (2000) Associate Professor Kinesiology, Leisure and Sport Sciences B.S., 1980, M.Ed., 1980 and Ph.D., 1998, Georgia State University.
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.	Myron, Mary C. (1997) Instructor University School B.A., 1994 and M.Ed., 1996, East Tennessee State University.
Lampley, 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.	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.
Langlois, Lora (2004) Instructor University School B.A., 1998, and M.S., 2000, University of Tennessee.	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.
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.	Petty, Joshua W. (2003) Instructor University School B.S., 1999, M.Ed., 2002, East Tennessee State University.
Love, Valerie A.B. (2002) Instructor University School B.S., 1993, and M.S., 1996, University of Tennessee-Knoxville.	Phillips, Laurelle B. (2000) Associate Professor Human Development and Learning B.A., 1964, Emory University; M.Ed., 1992, East Tennessee State University; Ph.D., 1999, University of Tennessee.
MacKay, Louise (1993) Associate Professor Educational Leadership and Policy Analysis Faculty Emerita B.A., 1957, Transylvania University, Lexington Kentucky; M.A., 1969 and Ph.D., 1983, George Peabody College for Teachers, Vanderbilt 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.
MacRae, Norma (1987) Professor Human Development and Learning Vice Provost for Public Service and Dean of Continuing Studies A.B., 1969, University of Georgia; M.Ed., 1975 and Ed.D., 1980, University of Kentucky.	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.
Malkus, Amy J. (2000) Associate Professor Human Development and Learning B.A., 1988, Washington College; M.S., 1992 and Ph.D., 1995, Purdue 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.
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.	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.
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.	Rhoton, Jack (1987) Professor Curriculum and Instruction 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.
Mattioli, Denee J. (1997) Associate Professor Curriculum and Instruction B.S., 1969, Westmar College; M.A., 1984 and Ph.D., 1990, University of Iowa.	Rice, Sandra (2004) Instructor University School B.A., 1976, Bob Jones University; M.A., 1978, University of South Carolina; M.A.T., 2003, East Tennessee State University.
McLean, James E. (2000) Professor Human Development and Learning B.S., 1961, M.S., 1971, and Ph.D., 1974, University of Florida.	Roberts, Kimberly D. (2003) Instructor University School B.A., 1990, University of Virginia-Wise; M.B.A., 2001, Virginia Tech.
McMurray, Nancy Ellen (2004) Assistant Professor Educational Leadership and Policy Analysis B.A., 1967, Emory and Henry College; M.S., 1974 and Ed.D., 1977, Virginia Polytechnic Institute and State University.	Robertson, Laura (2001) Instructor University School B.S., 2000 and M.S., 2001, University of Tennessee.
Melendez, Jane E. (2000) Professor Curriculum and Instruction B.S., 1961, Eastern Michigan University; M.S., 1981 and Ph.D., 1991, Indiana University.	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.
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.	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.
Moore, Teah (2006) Assistant Professor Human Development and Learning B.A., 1984, Anderson University; M.S., 2003, Bradley University; Ph.D., Idaho State University.	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.

Skelton, Emily J. (2003) Instructor University School
 B.S., 1998, East Tennessee State University;
 M.A., 2003, University of Tennessee - Knoxville.

Smith, Jean (1999) Instructor University School
 B.S., 1970 and B.S., 1971, Florida State University;
 M.Ed., 1995 and Ed.S., 2002, East Tennessee State University.
 National Board Certified Teacher (2002).

Snider, J. Blake (2002) Assistant Professor Human Development and Learning
 B.A., 1994, Lee University;
 M.S., 1999, and Ph.D., 2002, Auburn University.

Sobol, Joseph D. (2000) Associate Professor Curriculum and Instruction
 B.A., 1976, Sarah Lawrence College;
 M.A., 1987, University of North Carolina;
 Ph.D., 1994, Northwestern University.

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., 1983, 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) Assistant Professor Kinesiology, Leisure
 and Sport Sciences
 B.S., 1970, Florida Technological University;
 M.S., 1974, Tennessee Technological University;
 Ph.D., 1977, Florida State University.

Sutter, Holly (2006) Human Development and Learning
 B.S., 1996 and M.Ed., 1999, East Tennessee State University.

Tate, Brian Kendrick (2006) Curriculum and Instruction
 B.S., 1991 and M.Ed., 1997, East Tennessee State University
 Ed.S., 2005, Lincoln Memorial University.

Taylor, Deena K. (2005) Curriculum and Instruction
 B.S., 1990, East Tennessee State University;
 M.S., 1992, Florida State University.

Taylor, John M. (1966) Senior Affiliate Faculty Curriculum and Instruction
 B.S., 1954, Lincoln Memorial University;
 M.A., 1961, East Tennessee State University;
 Ph.D., 1972, University of Miami.
 ETSU Distinguished Faculty Award, 1981 and 1996.

Tollefson, Terry (1993) Professor Chair, Educational Leadership
 and Policy Analysis
 A.B., 1961, University of Michigan;
 M.B.A., 1963, Michigan State University;
 Ph.D., 1975, University of Michigan.

VanLandingham, Jennifer K. (2003) Instructor University School
 B.A., 1984, University of Georgia;
 M.A., 1996, Appalachian State University.

Whitmore, Harold L. (1970) Senior Affiliate Faculty Human Development
 and Learning
 B.S., 1961, Shepherd College;
 M.A., 1967 and Ed.D., 1970, West Virginia University.

Williams, Starlet (1988) Instructor University School
 B.S., 1984 and M.Ed., 1990, East Tennessee State University.

Willis, Clarissa (2001) Associate Professor Human Development and Learning
 Associate Director, Center for Early Childhood Learning and Development
 B.A., 1977 and M.A., 1979, University of Arkansas;
 Ph.D., 1993, University of Southern Mississippi.

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.

Adebonojo, Festus O. (1988) Professor Emeritus Pediatrics
 B.S., 1956 and M.D., 1960, Yale University.

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) Assistant 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.

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.

East Tennessee State University

- Block, William A. Jr. (1998) Associate Professor** **Obstetrics/Gynecology**
 B.S., 1988, The University of the South;
 M.D., 1992, East Tennessee State University, Quillen College 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 Autonomia;
 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.
- Coogan, Philip S. (1978) Professor** **Pathology**
Faculty Emeritus
 M.D., 1962, St. Louis University School 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.
- Daigneault, Ernest A. (1977) Professor Emeritus** **Pharmacology**
 B.S., 1952, Massachusetts College of Pharmacy;
 M.S., 1954, University of Missouri, Kansas City;
 Ph.D., 1957, University of Tennessee-Memphis.
- 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.
- 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.
- Douglas, John E. (1980) Professor** **Internal Medicine**
Faculty Emeritus
 B.A., 1959, Oberlin College;
 M.D., 1963, Johns Hopkins University School of Medicine.
- Drake, Janet (1999) Assistant 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, Quito, 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.
- Gardberg, Leonard J. (2000) Assistant Professor** **Internal Medicine**
Faculty Emeritus
 B.S., 1960 and M.D., 1977, University of Illinois.
- 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, Tanjore 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.
- Herd, J. Kenneth (1978) Professor Emeritus** **Pediatrics**
Faculty Emeritus
 B.S., 1950, Rutgers University;
 M.D., 1954, Cornell University Medical College.
- Hillman, Charles H. (2000) Assistant Professor** **Obstetrics/Gynecology**
 B.S., 1949, Virginia Polytechnic Institute;
 M.D., 1953, Duke University School of Medicine.
- 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.
- Hollins, Viola "Renee" (1999) Assistant Professor** **Obstetrics/Gynecology**
 B.A., 1989, University of Kansas;
 M.D., 1993, University of Kansas School of Medicine.
- 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.
- Houglund, 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.
- Jelovsek, Frederick R. (1991) Professor** **Obstetrics/Gynecology**
 M.D., 1969, University of Michigan Medical School;
 M.S., 1974, University of Southern California.
- 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**
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 M.D., 1975, Medical College, Baroda, India.

East Tennessee State University

- 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, Siddharatha 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.
- Lauer-Silva, Karen (2001) Assistant Professor** **Obstetrics/**
Gynecology
 B.S., 1992, South Dakota School of Mines and Technology;
 M.D., 1996, University of South Dakota 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.
- Moynihan, Patricia C. (1991) Professor** **Surgery**
Adjunct Faculty, Pediatrics
Director, Division of Pediatrics Surgery
Faculty Emeritus
 B.S., 1959, University of Southern Mississippi;
 M.D., 1965, University of Mississippi School of Medicine.
- 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.
- Politte, 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.
- Rasch, Ellen M. (1978) Professor** **Anatomy and Cell Biology**
Faculty Emeritus
 Ph.B., 1945, B.S., 1947, M.S., 1948 and Ph.D., 1950,
 The University of Chicago.
 ETSU Distinguished Faculty Award, 1989.
- Rice, Peter J. (1986) Associate Professor** **Pharmacology**
 B.S., 1976, Northeastern University;
 Ph.D., 1983, Ohio State University College of Pharmacy.
- Ridgeway, Nathan A. (1979) Professor** **Internal Medicine**
Chief, Division of General Internal Medicine
Residency Program Director, Kingsport
Faculty Emeritus
 B.S., 1953, Furman University;
 M.D., 1957, Duke University School of Medicine.
- 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.

East Tennessee State University

- 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.
- 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, Apothekerammer, 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.
- 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.
- Sinensky, Michael (1995) Professor** **Chair, Biochemistry and Molecular Biology**
Adjunct Faculty, Internal Medicine
 B.A., 1966, Columbia College;
 Ph.D., 1972, Harvard University.
- 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, J. Kelly (1979) Professor Emeritus** **Internal Medicine**
 B.A., 1957, Cornell University;
 M.D., 1960, Cornell University Medical College.
- 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.
- Tober-Meyer, Brunhilde K. (1978) Associate Professor** **Physiology**
Adjunct Faculty, Microbiology
Director, Division of Laboratory Animal Resources
Faculty Emerita
 D.V.M., 1964, Tieraerztliche Hochschule, Hannover, Germany;
 M.S., 1973, State University of New York- Buffalo.
- 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.r., 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.

Wilson, Jim L. (1995) Professor **Chair, Family Medicine**
A.B., 1966, Washington University, St. Louis;
M.D., 1970, University of Missouri.

Wundergem, Robert (1978) Professor **Physiology**
B.S., 1972, Calvin College;
Ph.D., 1977, The Medical College of Wisconsin.

Woodruff, Michael L. (1979) Professor **Anatomy and Cell Biology
Vice Provost for Research and Sponsored Programs/
Executive Director, ETSU Research Foundation**
B.A., 1969, University of Michigan;
M.S., 1971 and Ph.D., 1973, University of Florida.
ETSU Foundation Research Award, 1990.

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) Associate 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, College of Nursing**
B.S.N., 1968, Medical College of Virginia;
M.S., 1972, Virginia Commonwealth University;
Ph.D., 1987, University of Tennessee-Knoxville.

Anderson, Judith (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.

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.

Brehm, Jerilyn S. (1994) Assistant Professor **Family/Community Nursing**
B.S.N., 1977 and M.S.N., 1987, University of Kentucky.

Bringhurst, Martha (2007) Instructor **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, Sandy (2004) Instructor **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.

Crowe, Gayle (2007) **Family/Community Nursing**
B.S.N., 1986 and M.S.N., 1991, California State University.

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
Project Director ACTRID
Director of Research**
B.S.N., 1979, Ohio University;
M.S.N., 1982, West Virginia University;
Ph.D., 1988, Ohio University.

Everett, Kathy (2004) Instructor **Adult Nursing**
B.S.N., 1988, California State University;
M.S.N., 1992, University of California.

Garrett, Linda (2002) Assistant Professor **Family/Community Nursing**
B.S., 1986, M.S.N., 1999, and D.S.N, 2005, East Tennessee State University.

Gerding, Gail A. (2003) Assistant Professor **Family/Community Nursing**
B.S.N., 1983, Mobile College;
M.S., 1990 and Ph.D., 2002, Ohio State University.

Ghaffari, Masoud (2002) Assistant 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. (2003) Assistant Professor **Professional Roles/
Mental Health Nursing**
B.S.N., 1990, Tennessee Technological University;
M.S.N., 1994, Andrews University.

East Tennessee State University

- Granberry, Nancy (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;
D.S.N., 2004, Rush University.
- Greenwell, Audry (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 (2001) Instructor** Family/Community Nursing
B.S.N., 1989, East Tennessee State University;
M.S.N., 1997, University of Tennessee—Knoxville.
- Hunter, Rebecca (2004) Instructor** Family/Community Nursing
B.S.N., 1976, and M.S.N., 1985, University of Tennessee—Memphis.
- Jackson, Frances A. (2000) Assistant 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.
- 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.
- 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.
- Marrs, Jo-Ann S. (2002) Professor** Professional Roles/
Mental Health Nursing
Associate Dean, Academic Programs/Student Services
B.S., 1972, M.S., 1977, M.S.N., 1987, and Ed.D., 1985, University of Tennessee-
Knoxville.
- 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.
- 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 (2004) Instructor** Adult Nursing
B.S.N., 1997, East Tennessee State University;
M.S.N., 2001, University of Tennessee—Knoxville.
- Morrison, Constance A.** Professional Roles/Mental Health Nursing
A.S.N., 1970, Quinsigamond Community College;
B.S.N., 1974, Fitchburg State College;
M.B.A., 1977, Anna Maria College;
J.D., 1986, New England School of Law;
M.S., 1988, Fitchburg State College.
- Pearson, Tamera (2004) Assistant Professor** Adult Nursing
B.S.N., 1985, Southern College;
M.S.N., 1990, Vanderbilt University;
Ph.D., 1997, University of Southern Carolina.
- Ramsey, Priscilla W. (1990) Professor** Adult Nursing
B.S., 1976 and M.S., 1979, Clemson University;
Ph.D., 1990, University of Virginia.
ETSU Distinguished Faculty Award. 2003.
- 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** Professional Roles/
Mental Health Nursing
B.S., 1988, B.S.N., 1994 and M.S.N., 1996, East Tennessee State University.
- Seymour, Rosalee J. (1993) Associate Professor** Professional Roles/
Mental Health Nursing
Faculty Emerita
B.S.N., 1971, West Chester University;
M.S., 1980 and Ed.D., 1991, University of Delaware.
- Shell, Renee C. (1996) Associate Professor** Adult Nursing
B.S.N., 1987, M.S.N., 1994, and Ed.D., 2000, East Tennessee State University.
- Smith, Patricia L. (1990) Professor** Professional Roles/Mental Health Nursing
Dean, College of Nursing
B.S.N., 1964, Northwestern State University;
M.S.N., 1978, Medical College of Georgia;
Ed.D., 1989, University of Tennessee-Knoxville.
- Stewart-Glen, Jennifer (2004) Assistant Professor** Family/Community Nursing
B.S.N., 1977, Radford University;
M.S.N., 2000, George Washington 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, East Tennessee State 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 E. (1993) Associate Professor** Family/Community Nursing
B.S.N., 1972, East Tennessee State University;
M.S.N., 1976, University of Tennessee-Memphis.
- Webb, Melessia D. (2001) Assistant Professor** Adult Nursing
B.S.N., 1996, M.S.N., 2000, and Ed.D., 2004, East Tennessee State University.

COLLEGE OF PUBLIC AND ALLIED HEALTH

- 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.
- Aldrich, Timothy (2005) Associate Professor** Public Health
B.S., 1972 and M.P.H., 1979, University of Alabama, Birmingham;
Ph.D., 1985, University of Texas.
- Anderson, James L. (2002) Assistant Professor** Public Health
B.S., 1974, Walla Walla College;
M.D., 1977, and M.P.H., 1989, Loma Linda University;
Ph.D., 2002, University of Texas.
- Arnall, David Alan (2005) Professor** Physical Therapy
B.P.T., 1977, University of Utah, Salt Lake City;
Ph.D., 1985, Brigham Young University.
- 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.
- Basham, Pepper D. (2007) Clinical Faculty** Communicative Disorders
B.S., 1997 and M.S., 1999, Radford University.
- 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.
- Bishop, Wilsie S. (1978) Professor** Public Health
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.

- Boggs, Teresa L. (1998) Assistant Professor** Communicative Disorders
B.S., 1988 and M.S., 1991, East Tennessee State University.
- Bowers, Julie L. (1993) Assistant Professor** Health Sciences
B.S., 1984, East Tennessee State University;
M.S., 1987, University of Tennessee-Knoxville.
- Breese, Ute H. (2000) Assistant Professor** Physical Therapy
B.S., 1977, State University of New York;
M.Ed., 1998, East Tennessee State University.
- Burrow, Troy E. (2000) Instructor** Environmental Health
B.S.E.H., 1965, Henderson State University;
M.S.E.H., 1974, East Tennessee State University.
- Byington, Randy L. (2006) Assistant Professor** Allied Health
B.S., 1978, University of Virginia;
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- Chakraborty, Ranjan N. (2001) Assistant Professor** Health Sciences
B.S., 1979, Gujarat University, India;
M.S., 1981, University of Baroda, India;
Ph.D., 1993, Sardar Patel University, India.
- Chase, Patricia (2000) Associate Professor** Communicative Disorders
B.S., 1975 and M.S., 1976, East Carolina University;
Ph.D., 1997, Vanderbilt University.
- Crimi, Michelle (2006) Assistant Professor** Environmental Health
B.S., 1995, Clarkson University;
M.S., 1997, Colorado State University, Fort Collins, CO;
Ph.D., 2002, Colorado School of Mines.
- Currie, William D. (1993) Associate Professor** Health Sciences
B.S., 1982, University of Guelph, Ontario;
M.S., 1986 and Ph.D., 1989, University of Saskatchewan.
- 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.
- Drane, J. Wanzer (2006) Associate Professor** Public Health
B.S., 1955, Northwestern State University of Louisiana;
M.S., 1957, University of Florida;
Ph.D., 1967, Emory University.
- Dunn, Michael S. (2001) Associate Professor** Public Health
B.A., 1994 and M.S.H., 1996, University of North Florida;
Ph.D., 1999, University of Alabama.
- 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.
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B.S., 1972 and M.S. 1980, University of South Carolina;
Ph.D., 1999, University of Florida.
- Epps, Susan B. (2001) Instructor** Physical Therapy
B.A., 1988, Wake Forest University;
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Ed.D., 2002, East Tennessee State University.
- Fagelson, Marc A. (1996) Associate Professor** 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** Program Director,
Dental Hygiene
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.
- Florence, James E. (1995) Associate Professor** Public Health
B.S., 1974, California Baptist College;
M.A., 1978, Dr. P.H., 1981 and M.P.H., 1982, Loma Linda University.
- Flowers, Joanne Walker (1998) Associate Professor** Chair, Public Health
B.S., 1975, Central State University;
M.S.E.H., 1981, East Tennessee State University;
M.P.H., 1985, University of Pittsburgh;
Ph.D., 1992, University of Texas.
- 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** Chair, Health Sciences
B.S., 1966, University of Houston;
M.S., 1970, Northwestern University;
Ph.D., 1974, Baylor College of Medicine.
- Goodrow, Bruce A. (1988) Professor** Public Health
B.S., 1967, West Texas State University;
M.P.H., 1970, University of Texas;
Ed.D., 1974, 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.
- Gurley, J. Michelle (2005) Instructor** Communicative Disorders
B.S.Ed., 1998, Western Carolina University Honors College;
M.S., 2000, East Tennessee State University.
- Hopson, Victor W. (1977) Associate Professor** Dental Hygiene,
D.D.S., 1973, University of Tennessee Medical Units.
- Keene, Kevin S. (2004) Assistant Professor** Allied Health Sciences
Director of Clinical Education Cardiopulmonary Science
B.S., 2001 and M.S., 2002, Mountain State University;
M.B.A., 2004, King College.
- King, Karen D. (1990) Professor** Dental Hygiene
A.S., 1979 and B.S., 1981, East Tennessee State University;
M.H.Ed., 1983, Medical College of Georgia.
- 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.
- Leigh-Paffenroth, Elizabeth (2005) Assistant Professor** Communicative Disorders
B.S., 1990, Texas Tech University;
M.S., 1993, East Carolina University;
Ph.D., 2003, University of Wisconsin - Madison.
- Littleton, Mary Ann (2002) Assistant Professor** Public Health
B.A., 1985, University of California-Santa Cruz;
Ph.D., 2001, University of Alabama-Birmingham.
- Maier, Kurt J. (2000) Assistant 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** Public Health
B.S., 1988, M.B.A., 1993, and Ph.D., 1966, University of South Carolina.
- Masini, Douglas E. (2001) Assistant Professor** Program Director,
Cardiopulmonary Science
A.S., 1983, University of Toledo;
B.S., 1990, Regents College;
M.A., 1997, Tusculum College;
Ed.D., 2001, East Tennessee State University.
- 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.
- McRea, Chris (2004) Assistant Professor** Communicative Disorders
B.S., 1998 and M.S., 2000, University of Central Florida;
Ph.D., 2004, Florida State University.
- Metts, Tricia (2006) Assistant Professor** Environmental Health
B.S., 1989 and M.S., 1991, University of Wisconsin, Eau Claire, WI;
Ph.D., 2004, University of Michigan, Ann Arbor, MI.
- Murnane, Owen D., Jr. (1995) Assistant Professor** Communicative Disorders
B.S., 1978 and M.Ed., 1980, Madison College;
Ph.D., 1995, Syracuse University.
- Mustain, Eric L. (1990) Associate Professor** Health Sciences
B.A., 1974, University of Missouri-Columbia;
Ph.D., 1984, University of Colorado Health Sciences Center.
- 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.
- Osborne, John G. (1994) Assistant Professor** Health Sciences
B.S., 1971, Tennessee Technological University;
M.Ed., 1977, Middle Tennessee State University;
Ph.D., 1992, University of Kentucky, College of Medicine.

East Tennessee State University

- Panus, Peter C. (1995) Associate Professor** Physical Therapy
B.A., 1979, Huntingdon College;
B.S., 1981, Ph.D., 1985 and B.S.P.T., 1994, University of South Alabama.
- Perry, Thomas L., Jr. (1960) Associate Professor** Health Sciences
B.S., 1954 and M.A., 1960, East Tennessee State University.
- 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.
- 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) Assistant Professor** Communicative Disorders
B.Sc., 1980 and MCl.Sc., 1984, University of Western Ontario;
Ph.D., 2005, University of Kansas.
- Roh, Chul-Young (2003) Assistant Professor** Public Health
B.A., 1987 and M.A., 1989, InHa University;
M.P.A., 1992, New York University;
Ph.D., 2002, University of Colorado-Denver.
- Samples, Agnes B. (2001) Instructor** Public Health
B.S., 1983, and M.P.H., 1994, East Tennessee State University.
- Samples, Donald A. (1990) Associate Professor** Chair, Allied 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** Chair, Communicative Disorders
B.S., 1971 and M.S., 1972, University of Wisconsin, Madison;
Ph.D., 1980, University of Washington.
- Scheurman, Phillip R. (1986) Professor** Chair, Environmental Health
B.S., 1975, M.S., 1978 and Ph.D., 1984, University of Florida.
- 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.
- Sheaves, Rita A. (2007) Assistant Professor** Dental Hygiene
B.S., 1989, Medical College of Virginia;
M.S.E.D., 2001, Virginia Polytechnic Institute and State University.
- 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.
- Smith, Sheri Lyn (2005) Assistant Professor** Communicative Disorders
B.S., M.S., 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.
- Stoots, J. Michael (1998) Assistant Professor** Public Health
B.S., 1987 and M.P.H., 1990, East Tennessee State University;
Ed.D., 2001, University of Tennessee.
- Verhovsek, Ester L. (2006) Associate Professor** Allied Health
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, 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.
- Williams, Duane A. (1994) Associate Professor** Chair,
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.
- Wilson, Susan L. (2003) Assistant Professor** Public Health
B.A., 1974, University of Cincinnati;
M.S., 2003, University of North Texas;
Ph.D., 1982, Southern Methodist University.
- Wu, Tiejian (2002) Assistant Professor** Public Health
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 and Allied Health
B.S., 1977, B.A., 1977, M.P.H.-T.M., 1981, M.D., 1981, Tulane University.

UNIVERSITY LIBRARIES

- Allan, Charles (2001) Instructor** Reference and Information
Services Librarian
B.A., 1994, Vanderbilt University;
M.A., 1998, Tulane University;
M.L.I.S., 1999, University of Pittsburgh.
- Campbell, Kathy (2001) Instructor** Reference and Information
Services Librarian
B.A., 1976, University of South Carolina;
M.S.L.S., 1979, University of Tennessee.
- Ellis, Mark (1988) Assistant Professor** Reference and Information
Services Librarian
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) Associate 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) Associate Professor** Interlibrary Loan
B.A., 1988 and M.S.L.S., 1989, University of Kentucky.
- Jones, Marie F. (2000) Assistant Professor** Extended Campus
Services Librarian
B.A., 1986, Capital University;
M.L.S., 1990, Kent State.
- Libby, Katherine A. (1995) Assistant Professor** Catalog Librarian
B.A., 1984, Knox College;
M.L.I.S., 1991, University of Texas-Austin.
- O'Brien, Deborah (1998) Assistant Professor** Acquisitions Librarian
B.S., 1982, Kent State University;
M.L.S., 1993, University of South Florida.
- Patrick, Stephen Allan (1982) Professor** Government
Documents/Law/Maps
B.A., 1973, Southwestern-Memphis;
M.S.L.S., 1976, University of Tennessee-Knoxville.
ETSU Distinguished Faculty Award for Service, 1994.
- 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) Assistant Professor** Reference 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) Associate 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) Assistant Professor** Reference
Librarian
B.S., 1994, East Tennessee State University;
M.L.I.S., 1996, University of North Carolina- Greensboro.

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Index

A

- Academic Advising Rights and Responsibilities 17
- Academic Assessment Placement Program (AAPP) 9
- Academic Fresh Start 12
- Academic Honors Programs 47
- Academic Regulations 29
- Accreditation 4
- Additional Transfer Information 11
- Administrative Officers 270
- Admission 8
 - Advanced Placement Credit 10
 - Former Students Readmission 9
 - International Baccalaureate Program 10
 - Admission by Exception 8
 - Alternative Admission 8
 - Freshman Admission 8
 - Freshman Applicants Age 21 or Older 8
 - Transfer Student Admission 9
 - Undergraduate Special Student Admission 11
 - Visiting Student Admission 11
- Admission of International Students 12
- Admission to Teacher Education 129
- Advanced Placement Credit 10
- Advisement, Undergraduate Student 17
- Advising Rights and Responsibilities, Academic 17
- Advisor Rights and Responsibilities 17
- African and African American Studies Minor 51
- Allied Health Leadership Concentration 146
 - Radiography Concentration 149
- Appalachian Studies Minor 51
- Applied Spanish: Community Studies Minor 73
- Art and Design, Department of 52
- Art History 53
 - B.F.A. Degree 52
 - Minor in Art 55
 - Studio Art 53

B

- Bachelor Degree Requirements General 33
- Biological Sciences, Department of 55
 - Biochemistry Concentration Curriculum 57
 - Secondary Biology Education Curriculum 58

C

- Campus Recreation 27
- Classification of Courses by Level 29
- College of Arts and Sciences 49
 - B.A. and B.S. Degree Requirements 50
- College of Business and Technology 94
- College of Education 127
- College of Medicine 140
- College of Nursing 141
- College of Public and Allied Health 144
- College Level Examination Program 10
- Communication, Department of 63
 - Advertising Concentration 64
 - Broadcasting Concentration 64
 - Journalism Concentration 64
 - Public Relations Concentration 65
 - Theatre Concentration 65
 - Theatre Concentration Teacher Education 66

- Communicative Disorders, Department of 150
- Computer and Information Sciences, Department of ... 102
 - Information Systems Science (IS) Concentration 102
 - Information Technology (IT) Concentration 102
- Confirmation of Fee Payment 15
- Credit from Non-Regionally Accredited
 - Collegiate Institutions 11
- Curriculum and Instruction, Department of 129
 - Interdisciplinary Studies 129

D

- Declaring a Major 29
- Deferred Payment Plan 16
- Degree and Graduation Requirements 33
- Degrees 33
 - Graduate 33
 - Second Bachelors Degree 33
 - Undergraduate 33
- Departmental Course Challenge Exams 10
- Digital Media Fee 117
- Disabled Persons and Persons Over 60,
 - Enrollment of 12
- Division of Health Sciences 140
- Double Degrees 34
- Double Majors 34

E

- Early Enrollment Plans 9
- Economics, Finance and Urban Studies,
 - Department of 96
 - Economics Minor 97
 - Finance 98
 - Banking Concentration 98
 - Real Estate Concentration 98
 - General Business Minor 98
- Emergency/Disaster Response Management Minor 156
- Enrollment of Disabled Persons and Persons
 - Over 60 12
- Environmental Health, Department of 151
 - Concentration in Occupational Health and Safety 152
 - Minor in Safety 153
- ETSU Mission/Institutional Purpose 6
- ETSU Strategic Goals for the 2005-2010 Planning 6
- Excelsior College Examination 11
- Exchange Programs 12
- Expenses 14

F

- Faculty Listing 249
- Family and Consumer Sciences, Department of 105
 - Dietetics/Food Services Management 107
 - Interior Design 108
 - Merchandising 109
 - Minor 110
- Fee Payment 15
- Fee Payment for Financial Aid Recipients 15
- Fee Payment, Regulations Governing 15
- Fees 14
 - Digital Media Fee 117

Film Studies Minor	70
Financial Aid and Scholarships	18
Federal Financial Aid Application Procedures	20
Federal Student Financial Aid Programs	20
Financial Aid Satisfactory Academic Progress Policy	18
Important Dates	20
Student Eligibility	18
University Employment	20
University Loans	20
Foreign Language Proficiency (B.A.)	33
Foreign Languages, Department of	71
Freshman Admission	8

G

General Studies	123
Geography, Department of	98
Geology Major	84
Grade Appeal Process	29
Grade Point Average, How to Compute	29
Grades	29
Grades that do not influence Grade Point Average	29
Graduate Program Specialists	158
Graduate Studies	158
Graduation	38
Eligibility For Participation in Graduation	38
Graduation Requirements, Degree and	33

H

Health Sciences, Department of	153
Health Sciences Minor	154
Microbiology Minor	155
High School Courses, Required	8
History, Department of	73
Honors Distinction	33
Honors-in-Discipline Programs	47
Housing	14
Housing and Residence Life	27
Human Development and Learning, Department of	131
Early Childhood Development	131
Human Services	133
Special Education	134

I

ID Card, Student	14
Interdisciplinary Minor in Leadership Studies	100
International Baccalaureate Program	10
International Students, Admission of	12
International Studies Minor	75

K

Kinesiology, Leisure and Sport Sciences, Department of	136
Coaching Minor	139
Exercise Science Concentration	137
Park and Recreation Management Minor	139
Physical Education Minor	139
Sport and Leisure Management	138
Sport Management Minor	139

L

Licensure	128
-----------------	-----

M

Major	29
Declaring a Major	29
Management and Marketing, Department of	100
Interdisciplinary Minor in Leadership Studies	100
Management Major	100
Human Resources Management Concentration	100
Legal Studies Concentration	100
Logistics/Supply Chain Management Concentration	100
Management Minor	100
Marketing Major	101
Integrated Marketing Communications Concentration	101
Marketing Management Concentration	101
Marketing Minor	101
Memberships	4
Military Science, Department of	120
Milligan College/Emmanual/ETSU Agreement	12
Minor	29

N

National League for Nursing (NLN) Mobility Profile	11
Nursing, Bachelor of Science in	141
Admission Requirements	141
Curriculum	142

O

Orientation, Registration and	14
-------------------------------------	----

P

Philosophy and Humanities, Department of	81
Humanities Minor	82
Religious Studies Minor	82
Physics, Geology, and Astronomy, Department of	82
Political Science, Department of	85
Minor	85
Public Health, Department of	155
Community Health Concentration	155
Emergency/Disaster Response Management Minor	156
Health Care Administration Concentration	155
Health Education Concentration	155
School Health Concentration	155

R

Readmission	9
Refund Appeals Procedures	16
Refund of Residence Hall Rent	16
Refund Policies	15
Refund Procedures	13, 15
Refunds, Distribution Order of	16
Regents Online Degree Program	245
Registration and Orientation	14
Regulations Governing Fee Payment	15

S

School of Continuing Studies 122
 Bachelor of Applied Science 124
 Bachelor of General Studies 123
 Bachelor of Science in Interdisciplinary Studies 125
 Bachelor of Science in Professional Studies 125
 Division of Cross-Disciplinary Studies 122
 Office of Distance Education 122
 Office of Professional Development 122
 School of Graduate Studies 158
 Scholarships 21
 Second Bachelors Degree 33
 Second Undergraduate Degree Students 11
 Sociology and Anthropology, Department of 90
 Special Requirements 12
 Student ID Card 14
 Student Rights and Responsibilities 17
 Students Bill of Rights 5
 Students Denied Admission 12
 Surveying and Mapping 119

T

TBR & UT System 34
 Teacher Education 127

Technology and Geomatics, Department of 110
 Minor 111
 The University 7
 Transfer Student Admission 9
 Additional Transfer Information 11
 Transfer Student Application Procedure 9
 Tuition and Fees 14

U

Undergraduate Student Advisement 17
 Undergraduate Admission 8
 Undergraduate Special Student Admission 11
 University Honors Scholars Program 48
 Urban and Regional Studies Minor 99

V

Vision Statement 6
 Visiting Student Admission 11

W

Women's Studies 156