

EAST  
TENNESSEE  
STATE  
UNIVERSITY

UNDERGRADUATE CATALOG

2002 • 2003

**East Tennessee State University**

**2002-2003 Catalog**

**CollegeSource**

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## INFORMATION DIRECTORY

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
Fee payments, checks	
Financial Aid .....	439-4300
Housing and Residence Life .....	439-4446
Alumni Affairs .....	439-4218
Graduate Studies .....	439-4221
Continuing Education .....	439-4223
Parking Office .....	439-5650
Car registration	
Placement .....	439-4441
Cooperative Education .....	439-5388
Intercollegiate Athletics .....	439-4343
Veterans Affairs .....	439-6819

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Applied Science and Technology .....	439-7500
Arts and Sciences .....	439-5671
Business .....	439-5489
Continuing Studies .....	439-4223
Education .....	439-7626
Graduate Studies .....	439-4221
Medicine .....	439-6315
Nursing .....	439-7186
Public and Allied Health .....	439-4243

### Centers

ETSU/UT at Kingsport .....	392-8000
Marshall T. Nave Center (Elizabethton) .....	547-4900
ETSU at Bristol .....	844-6300
ETSU at Greeneville .....	787-7300

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

## ACADEMIC CALENDAR 2002-2003

### Fall Term 2002

June 14 .....	Application deadline for December graduation
July 29 .....	Admission Application deadline for priority processing
Aug. 19-23 .....	Registration
Complete registration dates are included in the "Schedule of Classes Bulletin."	
Aug. 26 .....	Classes begin
Aug. 30 .....	Last day to late register or late add a course
Sept. 2 .....	Labor Day holiday
Sept. 13 .....	Application deadline for May graduation
Sept. 23 .....	Last day to drop without grade of "W"
Oct. 21 .....	Last day to drop a course
Oct. 25 .....	Fall Break
Nov. 28-29 .....	Thanksgiving holidays
Dec. 4 .....	Last day to withdraw
Dec. 6 .....	Last day of classes
Dec. 7-12 .....	Final examinations
Dec. 14 .....	Commencement

### Spring Term 2003

Jan. 2-3, 6-7 .....	Registration
Complete registration dates are included in the "Schedule of Classes Bulletin."	
Jan. 8 .....	Classes begin
Jan. 14 .....	Last day to late register or late add a course
Jan. 17 .....	Application deadline for August graduation
Jan. 20 .....	Martin Luther King holiday
Feb. 5 .....	Last day to drop without grade of "W"
March 5 .....	Last day to drop a course
March 17-22 .....	Spring Break
April 18 .....	Good Friday holiday
April 23 .....	Last day to withdraw
April 25 .....	Last day of classes
April 26 - May 1 .....	Final examinations
May 3 .....	Commencement

### Summer Term 2003

Complete registration dates are included in the "Schedule of Classes Bulletin."

#### Pre-Summer, May 12-30

May 8-9 .....	Registration
May 12 .....	Classes begin
May 13 .....	Last day to late register or late add a Pre-Summer course
May 15 .....	Last day to drop without 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

#### Complete Session, May 12 - Aug. 8 Dual Session, June 2-Aug. 8

##### Session 1, June 2-July 3

May 29-30 .....	Registration
June 2 .....	Classes begin
June 4 .....	Last day to late register or late add a Session 1 course
June 5 .....	Last day to late register or late add a Dual Session course
June 9 .....	Last day to drop without grade of "W" Session 1
June 13 .....	Application deadline for December graduation
June 18 .....	Last day to drop without grade of "W" Dual Session

June 20 .....	Last day to drop a Session 1 course
July 1 .....	Last day to withdraw - Session 1
July 3 .....	Last day of Session 1 classes
July 4 .....	Independence Day holiday

##### Session 2, July 7-Aug. 8

July 2-3 .....	Registration
July 7 .....	Classes begin
July 9 .....	Last day to late register or late add a Session 2 course
July 14 .....	Last day to drop without grade of "W" Session 2
July 25 .....	Last day to drop a Session 2 course
Aug. 6 .....	Last day to withdraw Session 2 and Dual Session
Aug. 8 .....	Last day of classes

## East Tennessee State University Johnson City, Tennessee

Vol. LXXXIX

April 2002

No. 4

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Office of Admissions  
Box 70731, East Tennessee State University  
Johnson City, Tenn. 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, technical institutes and technology centers governed by the Tennessee Board of Regents. The General Assembly created the Commission in 1967 to achieve coordination and unity among the programs of Tennessee's public post-secondary institutions and to serve as a primary source of information concerning higher education in Tennessee.

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## Accreditation

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

East Tennessee State University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (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 Tennessee Conference of Graduate Schools  
 Association of Academic Health Centers  
 Oak Ridge Associated Universities  
 Institute of International Education  
 National Collegiate Athletic Association  
 Southern 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 institution and the academic community which it seeks to serve, the Tennessee Board of Regents has authorized the president of the university to take such action as may be necessary to maintain campus conditions and preserve the integrity of the institution and its educational environment.

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

A complete statement on institutional student disciplinary rules and procedures can be found in the student handbook.

## 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 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, TN 37614-1702. The report can be accessed on the Internet at:

[http://www.etsu.edu/dps/security\\_report.htm](http://www.etsu.edu/dps/security_report.htm).



## 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, 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. If a student wishes to appeal a specific administrative decision, he/she should contact the appropriate department and request an appeal form.

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

Student concerns or complaints pertaining to the offices of Admissions, Financial Aid, or the Registrar should be directed to the Vice Provost, P.O. Box 70731, 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.

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/INSTITUTIONAL PURPOSE

ETSU opened its doors in 1911 initially to prepare teachers for the region's public schools and has evolved into a state-supported, comprehensive, regional university in the State University and Community College System of Tennessee, governed by the Tennessee Board of Regents. The University embraces its regional setting and proudly reflects its traditional roots through programs and activities that highlight its Appalachian heritage. Although the majority of students from Northeast Tennessee and adjacent states, many qualified students from throughout Tennessee and from other states and countries also enroll. The University acts on the belief that educational opportunities should be available to all eligible people without regard to age, gender, race, color, religion, national origin, disability, veteran status, or sexual orientation.

ETSU affirms the fundamental values of higher education: protecting free interchange of ideas through academic freedom, promoting curiosity and desire for learning, stimulating thought and self-reflection, and encouraging ethical behavior. It also places a distinctive focus on improving student competency in writing, oral communication, and using information technology. The University expects its faculty, with support from administration and staff, to place primary emphasis on student learning through a strong commitment to effective and innovative teaching. **The University promotes efficient and effective services to support the University's instructional, research, and public service programs.**

The University pursues partnerships and collaboration as a means of enhancing its institutional effectiveness. It places special emphasis on community-based and interdisciplinary education, on service-learning with rigorous student expectations for reflection, on expanding opportunities for students' intellectual and social development through co-curricular opportunities and academic programs meeting high standards of quality, and on a respect for cultural diversity and programming that enhances global awareness. The University also provides opportunities for communities outreach, public service, and lifelong learning of both a professional and personal nature through its various units. It assumes a leadership role in providing facilities and programs that improve the intellectual, cultural, political, social, and health environment of Northeast Tennessee and the Southern Appalachian region. In addition, ETSU reflects its commitment to quality through a number of specialized centers, bureaus, and Chairs of Excellence.

ETSU offers programs through nine schools and colleges related to five areas: arts and sciences, business, education, health sciences and services, and technology. The University is recognized by the state for its unique mission focus in the area of health sciences and places special emphasis on addressing the needs of Southern Appalachia in areas of rural health care. ETSU's Division of Health Sciences, composed of the colleges of Medicine, Nursing, and Public and Allied Health, serves the state, region, and nation as a comprehensive academic health sciences center.

ETSU's undergraduate programs embrace the philosophy of liberal education for all, with special programs leading to a primary level of expertise in the arts and sciences and in selected professional fields. These programs also address needs of students not fully prepared for college-level work, nontraditional students returning to the classroom, and gifted students seeking more challenging educational activities. The University is also committed to providing a rich campus life, expanded residential opportunities, and a viable athletic program.

ETSU offers a broad array of graduate programs that provide advanced specialized preparation in many areas to meet the needs of its student population and facilitate the development of its extensive service region. Those programs include broad master's-level programming in most liberal arts disciplines as well as technical and professional programs in fields that respond to regional and other clearly defined needs. They include doctoral programs in education and in biomedical sciences and programs leading to the Doctor of Medicine degree.

The University is expanding the availability and enhancing the quality of off-campus programming in viable markets as well as programming offered through distance learning technologies which include the Internet. The University provides programs that expand the region's access to emerging technologies. ETSU is expanding undergraduate, master's, graduate certificate, and doctoral programs that support its mission focus on health, wellness, and addressing the needs of rural populations.

Research and scholarship are essential components of the University's mission. The University supports quality research and scholarly activities in all areas of its academic programs and community service activities. These programs enhance the contributions of East Tennessee State University's partnerships and collaborations. ETSU's faculty are responsible for developing and maintaining programs of scholarly activity appropriate to their disciplines. The University seeks to reward practicing researchers and scholars who are current and active in their disciplines and who incorporate the products of their research and scholarship in teaching, professional publications or exhibits or performances, and in professional services to business, education, government, the arts community, and health care systems. (Revised 10/31/2001)

## 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 full 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 2000-2005 PLANNING CYCLE

East Tennessee State University will emphasize its mission-distinctive focus through the following goals:

1. Expand and enrich student learning with
  - a) A commitment to a student-centered environment
  - b) Demonstrated quality undergraduate and graduate programs
  - c) A strong General Education core
  - d) A commitment to providing students opportunities for appropriate careers through advising, counseling, and planning
  - e) Internship/Co-Op opportunities
  - f) A focus on health professions education and services
  - g) Community-based programs
  - h) Interdisciplinary offerings
2. Conduct faculty and student research, scholarship, and creative activities that
  - a) Strengthen the learning environment
  - b) Enhance the region
  - c) Advance human knowledge
3. Serve and partner with our constituents to
  - a) Enhance teaching, learning, and research
  - b) Improve the quality of life and economic well-being of the region
  - c) Strengthen the community and university
4. Demonstrate a commitment to cultural diversity through
  - a) Expanded programs and activities
  - b) Enhanced campus environment
5. Enhance efficient and effective use of resources

## 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 Competency Examination.

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 (Tenn. 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 geometry as a major component	1
Natural/Physical Sciences, including at least one unit, with lab, of biology, chemistry, or physics	2
Social Studies, including world history, world geography, ancient history, European history, or modern history	1
United States History	1
A single Foreign Language	2
Visual or Performing Arts, including theatre arts, visual arts, music theory, music history, vocal music, art history, or general music	1

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 Competency Examination. 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. 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 Assessment Placement Program (AAPP)

Applicants who qualify for freshman admission will be required to complete all or part of the COMPASS test battery prior to registration for classes according to the following:

If the -

- a. ACT composite score is less than 19 (or equivalent SAT);
- b. ACT English score or ACT Math score is less than 19 (or equivalent SAT);
- c. age of the admitted freshman is 21 or higher and there are no recent ACT or SAT scores to review.

### 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:** 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.
3. **Academically Talented/Gifted High School Students:** Students enrolled 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.

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 Admission.

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

#### Postsecondary Transfer Credit Admission Requirements

12 or more transferable semester hours of credit earned	Minimum overall grade point average on transferable hours:
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Attempted Hours	GPA
12 - 29.0	1.4
29.1 - 45.0	1.7
45.1 - 59.9	1.9
60 - above	2.0

Less than 12 transferable semester hours of credit earned	Minimum overall grade point average on transferable hours:
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Attempted Hours	GPA
1 - 29.0	1.4
29.1 - 45.0	1.7
45.1 - 59.9	1.9
60 - above	2.0

and appropriate freshman admission requirements as outlined in this 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 course work 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.

## 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.

### 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 standing 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 (formerly Regents 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, the Bachelor of Applied Science [B.A.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 should 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 60 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 AAPP (Academic Assessment Placement Program) 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 AAPP 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. 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/Emmanual/ETSU Agreement**

Full-time students (12 credits or more) may take courses at Milligan College and Emmanual 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 Chief Academic Officer, who may approve or disapprove the committee's recommendation.

### **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) 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 Enhanced 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 the COMPASS test battery before registration for 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**

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 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**

1. 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 by the Division of Developmental Studies;
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.

### **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, craft shop, food services, vending machines, laundry facilities, and 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: 8:00 a.m. - 7:00 p.m. Friday: 8:00 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. School year 2001-2002 fees are as follows.

### Tuition and Fees

(Subject to change for 2002-2003 year.)

#### Application Fee

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

#### Undergraduate Registration Fee

One hundred twelve dollars (\$112) per semester hour, not to exceed \$1,278 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 Admission for undergraduate students.

#### Graduate Registration Fee

One hundred eighty-one dollars (\$181) per semester hour, not to exceed \$1,716 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

Two hundred seventy dollars (\$270) per semester hour, not to exceed \$3,236 per semester (IN ADDITION TO ABOVE REGISTRATION FEE) (except during Summer Term. See Summer Schedule of Classes.).

#### Auditing Fees

Same as regular fees.

### 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**.

### Housing

Single Student Residence Halls	
Deposit .....	\$ 75 - \$ 100
Rent-Residence Halls (semi-private) .....	\$ 865 - \$ 1020
Buccaneer Ridge Apartments .....	\$1700 - \$2160
Family and Graduate Housing	
Deposit .....	\$100
Rent	
Graduate efficiency (per month) .....	\$275
One-bedroom (per month) .....	\$295
Two-bedroom (per month) .....	\$335

Some utilities in family and graduate housing are extra. Telephone, Cable TV, and water are furnished.

### General Expenses

Board	
University cafeteria (estimate per semester) .....	\$799 - \$1084
Books	
First-semester freshman (estimate per semester) .....	\$200 - \$300
Other, if used books are exchanged (estimate per semester) .....	
	\$200

Some books can be used for a full year. In some instances used books are available.

Debt Service Fee .....	\$ 7 per credit
Debt Service Fee .....	\$80 maximum
Student Activity Fee-All students registered for credit (Fall & Spring, Only) .....	\$ 4
General Access Fee — Per Hour .....	\$28 per credit (nonrefundable)
General Access Fee — Maximum .....	\$197.50 (nonrefundable)
Late Registration .....	\$100.00

Departmental Course Challenge	
Exam Fee .....	\$15.00 per credit hour
Transcripts .....	No Charge
Music Fee .....	\$100.00 (Private instruction in voice, piano, organ, wind instruments, etc., one-half hour lesson per week.)

Chemistry Materials Fee .....	\$18.00
Physics Materials Fee .....	\$20.00
Biology Materials Fee .....	\$15.00

**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 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 have questions about the payment of fees for financial aid recipients, please consult the "How to Credit Fees" notice mailed with the award letters or contact the Financial Aid Office at 423/439-4300 or the Bursar Office at 423/439-4212.

**Other Fees**

Post Office Box Rental Fee (per semester) .....	\$10.00
Replacement Diploma .....	\$10.00

**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, you must (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: These programs are subject to change by the university, the states, or the Southern Regional Education Board without notice.*

<b>Approved Programs in Undergraduate Studies</b>	<b>State</b>
Bachelor of Science in Surveying and Mapping Science	Alabama Kentucky Louisiana Mississippi South Carolina Virginia West Virginia
Bachelor of Science in Engineering Technology (Biomedical Engineering Technology Option Only)	South Carolina Virginia
Bachelor of Science in Engineering Technology (Engineering Design Graphics Option Only)	Kentucky South Carolina Virginia West Virginia
Bachelor of Science in Environmental Health	South Carolina Virginia
Bachelor of Science in Mass Communications (Broadcasting Option Only)	Maryland
Bachelor of Science in Special Education	Virginia
Bachelor of Science in Applied Human Sciences (Apparel Merchandising)	South Carolina
Bachelor of Science in Engineering Technology (Construction Option Only)	Virginia
Bachelor of Science in Public Health	Virginia
Bachelor of Science in Computer and Information Sciences (Information Technology Option Only)	Virginia
Bachelor of Science in Physical Education (Sports Management and Leisure Services Option Only)	Virginia

<b>Approved Programs in Graduate Studies</b>	<b>State</b>
Master of Science in Engineering Technology	Virginia Kentucky
Master of Arts in Professional Communications	Virginia
Master of Science in Environmental Health	Florida Kentucky Virginia
Master of Arts, Master of Education in Reading	Alabama Virginia
Master of Arts, Master of Education in Reading and Story Arts	Georgia Kentucky Louisiana Maryland Oklahoma South Carolina Texas
Master of City Management Master of Public Management	Delaware Delaware

## 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 \$75 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.

### 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 new 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 new 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 restore to the appropriate federal fund 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 \$10 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 fall 1997 or later with less than 60 credits are required to meet with an advisor prior to registration. The 60 credit guideline is the minimum advisement requirement.

Some colleges and departments have additional advisement requirements for their students. You should consult with your academic advisor to determine your requirement.

Students who have declared a major should see an advisor in that major. Students who have not declared a major 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 enrolled in Developmental Studies courses will need to see an advisor in Developmental Studies. Students taking classes in Bristol, Kingsport, or Greeneville may contact these centers for advisement information. Other areas may contact the student to discuss additional advisement opportunities such as Athletics, the Center for Adult Programs and Services (CAPS), 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 are encouraged to apply for financial aid as early as possible each year. The Free Application for Federal Student Aid (FAFSA) is generally available January 1 for the upcoming academic year and must be completed each year the student is enrolled in college. 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 the colleges and universities listed by the student on the FAFSA. Students will find links to other helpful financial aid information at <http://www.etsu.edu/finaid/financial.htm>. 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 attractive 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 within the university 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.

Counselors are available to assist students with any questions or concerns regarding their eligibility. Any applicant who has a concern that cannot be resolved between the student and a financial aid counselor may appeal to the Associate Director of Financial Aid. Any concern not resolved between the applicant and the Associate Director may be appealed to the Director of Financial Aid. The student may appeal to the Vice Provost if none of the previous steps solved the problem.

The "Student Guide" 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. The website address is [http://www.ed.gov/prog\\_info/SFA/StudentGuide/](http://www.ed.gov/prog_info/SFA/StudentGuide/) and the phone number is 800-4FED-AID (800-433-3243).

### Student Eligibility

Students must meet the following criteria to receive federal funds:

1. Be enrolled at ETSU as a regular student, attending classes, in a degree or certificate program. Special or transient students are not eligible for federal funds. Exceptions to this requirement are for:

- a. prerequisite coursework required for enrollment in a degree-seeking program or,
  - b. coursework required for teacher certification after completion of a previous degree. Aid is limited to a one-time only 12-month period for prerequisite coursework.
2. Be accepted for admission or meet the Financial Aid Satisfactory Academic Progress Policy requirements for continuing students before aid eligibility will be determined.
  3. Be a U.S. citizen or eligible noncitizen.
  4. Males must be registered with the Selective Service.
  5. Have a high school diploma or recognized equivalent.
  6. Not be in default or owe a refund or repayment of Title IV funds.

### 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.)

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. A review will be made at the end of the Spring Semester and students who did not make satisfactory academic progress will be notified.
- B. Students who receive all "I", "F", or "W" grades in courses attempted in any semester will be removed from financial aid,

until the student has regained financial aid eligibility (see section III).

- 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. 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.
- F. Second degree students will have their satisfactory academic progress calculated from the credit hours attempted beyond the first degree. Additional credit hours for the second degree coursework will be limited to the credit hours required to complete the second degree.
- G. Students classified as "Undergraduate Special" (SPU) may be eligible for federal financial aid; check with your Financial Aid Counselor.
- H. Students classified as "Graduate Non-Degree" (SPG) are only eligible for federal financial aid for up to 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).
- I. Students may receive aid for no more than 30 attempted credit hours of remedial coursework.

### 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 Financial Aid Office within two weeks of notification. The appeal must be prepared in writing on the Satisfactory Academic Progress Appeal Form, and 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 extenuating circumstances may be acceptable and will be considered.

#### 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 instated by taking the following actions:

- 1. Enroll in and earn the number of deficient credit hours (see chart on page 1 for credit hour requirements) in which aid was received; and
- 2. Maintain a minimum 2.0 GPA for the semester average for those credit hours.

### 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. Every year, complete the Free Application for Federal Student Aid (FAFSA) as soon as possible after January 1 for the upcoming fall and future semesters. Students are encouraged to complete the FAFSA electronically at <http://www.fafsa.ed.gov>. The ETSU school code 003487 should be listed on the FAFSA for the University to receive the data electronically.
2. ETSU will review the student's financial aid record electronically with the National Student Loan Data System (NSLDS). If the student has attended a previous college, discrepancies will be resolved by requesting a financial aid transcript from the student's previous institution(s).
3. 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 send the SAR to the Office of Financial Aid at ETSU. The student is encouraged to review the SAR for accuracy. If the student is selected for verification, the student must complete the verification worksheet and submit copies of the parent(s)/student/spouse IRS 1040 form to ETSU. The university may also request other information.
4. Scholarship applications vary according to each program. Students are encouraged to apply early and be observant of each program's individual requirements.
5. All students borrowing at ETSU from the Federal Perkins or Federal Stafford Loan Programs are required to complete entrance loan counseling. These counseling sessions are available during orientation and at scheduled times in the Office of Financial Aid. This is mandatory before receiving loan funds for the first time while attending ETSU. Entrance loan counseling must be completed at ETSU and not at another institution.

Entrance and exit loan counseling may be done electronically online at <http://mapping-your-future.org/oslc>. Upon completion, you must complete an online form. This form will be sent to the Office of Financial Aid at East Tennessee State University confirming your completion of the required loan counseling session.

### 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** - As soon as possible, complete online or mail the FAFSA for processing. The application will require an average processing time of four weeks.
- **February 15** - Tennessee residents applying for TSAA are encouraged to mail the FAFSA no later than this date.
- **April 15** - The priority deadline for making application for scholarships in this brochure, unless otherwise listed. Applications received after April 15 will not be processed.

- **April 15** - ETSU priority deadline to receive financial aid for fall semester. All application materials must be complete in the Office of Financial Aid.
- **November 15** - ETSU priority deadline to receive financial aid for spring semester. All application materials must be complete in the Office of Financial Aid.
- **Thirty Days After Classes Start** - Delayed disbursement of Federal Stafford Loans for first-time freshman borrowers.

### 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 that have not received a previous bachelor's or professional degree. Awards can be up to \$4,000 per year.

**Federal Supplemental Educational Opportunity Grant (FSEOG)** - Awarded to undergraduates with exceptional need. Funding is limited and generally offered only to Pell Grant recipients with the lowest expected family contributions.

**Federal Work-Study Program (FWSP)** - Employment is awarded to undergraduate and graduate students with financial need. Students are paid minimum wage each month in various positions available on the campus.

**Federal Perkins Loan Program** - Federally funded loans borrowed from the university at 5 percent interest for both undergraduate and graduate students. Repayment begins nine months after a student ceases at least half-time attendance.

**Federal Stafford Loan Program** - Stafford loans are awarded based on a student's dependency status, financial need, cost of attendance, and grade level. Both undergraduate and graduate students may borrow in this program. These loans will be subsidized when based on need and the federal government will pay the interest while the student remains enrolled at least half time. Unsubsidized loans are also available based on the student's cost of attendance and other financial aid. These loans require the student to pay or accrue the interest while enrolled, although the principal amount of the loan is deferred. Borrowers begin repaying both subsidized and unsubsidized Stafford loans at the end of at least half-time enrollment. Interest rates vary from 7 to 8.25 percent.

**Federal PLUS Loan Program (PLUS)** - Federal PLUS loans are available to parents of undergraduate students. These variable-rate loans cap at 9 percent. Repayment begins 60 days after the loan is disbursed and continues while the student is enrolled. The maximum repayment period is 10 years.

### Tennessee Student Assistance Corporation Programs

The Tennessee Student Assistance Corporation (TSAC) has a variety of programs available to assist students in meeting the cost of education. Additional information can be found at <http://www.state.tn.us/tsac/>.

**Tennessee Student Assistance Award** - This grant program is awarded to Tennessee residents that are Pell Grant eligible. Students must apply early, as funding is limited. The FAFSA is the required application. Priority deadline is May 1 and is determined by the FAFSA processing date.

**Tennessee Teaching Scholars Program** - A competitive, forgivable loan for junior, senior, and post-baccalaureate teacher education

students with a minimum 2.75 GPA. The student must commit to teaching in Tennessee public schools for one year for each year an award is received. The deadline for applying to TSAC is April 15 each year.

**Minority Teaching Fellows Program** - A \$5,000 per year award for entering freshmen with a 2.75 high school GPA; high school students must have a minimum 18 ACT or 850 SAT or be in the top 25 percent of the graduating class. A continuing college student may be eligible with a 2.5 GPA. A commitment must be made to teach in Tennessee public schools for one year for each year an award is received. The deadline is April 15 each year.

**Ned McWherter Scholars Program** - Up to \$6,000 per year for entering freshmen with a 3.5 high school GPA and a minimum 29 ACT or 1280 SAT. The application deadline is February 15 each year.

**Robert C. Byrd Honors Scholarship Program** - A variable Award given to high school seniors with a 3.5 GPA or to students with a GED score of 57 or higher. High school students with a 3.0 GPA and an ACT or SAT in the top quartile nationally may also apply. The application deadline is March 1 each year.

### University Employment

The ETSU Office of Career Development has information about off-campus jobs and the Cooperative (CO-OP) 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.

Information about the Federal Work Study Program (FWSP) 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, is for full-time students who may work on campus while classes are in session. Available jobs are posted in the lobby of the ground floor of Burgin E. Dossett Hall, immediately outside the Office of Financial Aid. Students should contact the office or department in which they wish to work for an interview. Students do not have to qualify for federal financial aid programs to work on 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 cosigners 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.

### 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, book allowances. In keeping with the intent of scholarship support, ETSU 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.**

This listing of scholarships is divided into the following three categories:

1. **Category One Scholarships** are the Academic Performance Scholarships and are administered by the Office of Admissions and Office of Financial Aid.
  2. **Category Two Scholarships** are administered by the Office of Financial Aid or by the Office of Admissions for the University Scholarship Committee.
- Category One and Category Two scholarships require the student to complete the University Scholarship Application. It is available from the Office of Admissions or the Office of Financial Aid. The application is also available online at <http://www.etsu.edu/finaid/Forms/sch0203.pdf>. Students must list the individual name of each of the scholarships for which application is being made – not just the category - on the University Scholarship Application. The University Scholarship Application should be returned directly to the Office of Admissions or the Office of Financial Aid as directed in the scholarship descriptions. University Scholarship Applications may be reproduced as needed.
3. **Category Three Scholarships** require the student to apply directly to the scholarship program listed. The University Scholarship Application is not used for Category Three Scholarships.

### Category One Scholarships

Entering freshmen and transfer students apply to the Office of Admissions. Currently enrolled students apply to the Office of Financial Aid. University Scholarship Applications may be reproduced as needed.

- Academic Performance Scholarship Program For Tennessee Residents-Awards are for entering freshmen and transfers for the fall semester each year. Awards are based on academic credentials. Entering freshmen will be considered on the basis of high school grade point average, ACT or SAT scores, and rank in class. Generally, students who earn an ACT composite of 26 or higher and earn a high school GPA of 3.5 on a 4.0 scale or higher qualify. However, selection is competitive and is based upon the credentials of the applicant pool. Transfers will be considered on a competitive basis and should present minimum qualifications including a 3.2 grade point average (4.0 scale) and 24 credits of transferable courses.

Recipients must maintain an overall and semester grade point average of 2.5, pass a minimum of 12 credits per semester, and fulfill a work requirement in order to renew the scholarship for subsequent terms.

Work requirements vary from approximately 3-5 hours per week depending upon the level of the award. Developmental courses do not count toward the minimum of 12 credits earned or in the semester or overall grade point average required for renewal. Currently enrolled students applying for this award must have earned 12 credits in the previous semester.

### **THE APS PRIORITY DEADLINE IS FEBRUARY 15 FOR NEW FRESHMEN AND MAY 15 FOR NEW TRANSFERS.**

Availability of awards is contingent on funding levels. Awards for new students are made on a rolling basis. Initial eligibility and renewal requirements may change in the future. New students accepting an APS must register for fall classes or register to attend an orientation program by July 1 or forfeit the scholarship award.

### Category Two Scholarships

Applications for the scholarships in this category should be sent to The University Scholarship Committee in the Office of Admissions or the Office of Financial Aid, as noted in each scholarship description. University Scholarship Applications may be reproduced as needed.

- **A & L Industrial Construction/Little & Adams, Inc. Scholarship**  
For dependents of A & L Industrial and Little & Adams, Inc. employees. Apply to the University Scholarship Committee.
- **The Alltrista Scholarship**  
Greene County High School graduates who are employees of, or dependents of, an employee of Alltrista Corporation with a 2.5 GPA and financial need should apply to the University Scholarship Committee.
- **Berklene Corporation Scholarship**  
For children of current employees of the Berklene Corporation. If there are no applicants from children of the Berklene Corporation, other qualified applicants from Morristown and Hamblen County will be considered in the order listed above. Apply to the University Scholarship Committee.
- **Bosch Braking System, Inc. Scholarship**  
For employees of the Bosch Company or their eligible dependents. Must be full-time undergraduate students. Apply to the Office of Financial Aid.
- **James E. Broach Scholarship**  
Awarded to Tennessee residents enrolled full time in a bachelor's degree program. Applicants must apply for federal financial aid programs, have unmet need and qualify for student loans, and not receive any federal or state grant. A minimum 3.5 high school GPA and a minimum 26 ACT is required for entering freshman applicants. Enrolled students must have a minimum 3.2 cumulative GPA. Applicants for renewal must maintain a minimum 3.2 cumulative GPA. Applications should be submitted to the University Scholarship Committee by March 1.
- **The George S. Brown Memorial Scholarship Endowment**  
For full-time students who are Carter County, Tennessee high school graduates with a minimum GPA of 2.5 and documented financial need. Contact the University Scholarship Committee.
- **Roy T. Campbell Family Scholarship**  
In memory of Roy T. Campbell, Sr., a 1917 graduate, and his son, Albert, a former ETSU student. For students from Cocke County, Tenn. A 2.5 overall GPA required. Financial need considered. Apply to the University Scholarship Committee.
- **Challenge 2000 Scholarship**  
Awarded to students exhibiting evidence of scholastic success, achievement in extracurricular experiences, and high performance on national admissions examinations. Recipients must complete a minimum of 24 credits per year for renewal. Applications should be submitted to the University Scholarship Committee.
- **Chiquola Fabrics, LLC Scholarship**  
For dependents of employees of the Chiquola Fabrics, LLC. Apply to the Office of Financial Aid.
- **Committee of 1000 Scholarship Endowment**  
This scholarship is awarded to students showing academic and leadership qualities. Financial aid is not a factor. Recipients must complete a minimum of 24 semester hours in an academic year in order to qualify. Scholarship awarded by the University Scholarship Committee.
- **Tommy Deakins Scholarship Endowment**  
Awarded to students with demonstrated financial need and a minimum 2.5 high school or college cumulative GPA. First priority is given to graduates of Sullivan North High School. Residents at the time of high school graduation from Holston Methodist Home have second priority. Applications should be submitted to the University Scholarship Committee.
- **John Richard Diehl, Jr. General Scholarship**  
Awarded to students with demonstrated financial need from Holston Home for Children, David Crockett High School, and any other Washington County high school. Applicants must have a 2.0 GPA and a strong desire to complete education. Applications should be submitted to the University Scholarship Committee.
- **Dr. Burgin E. and Nell Jennings Dossett Scholarship**  
Awarded to students with demonstrated financial need or a minimum 3.0 cumulative GPA. Preference will be given to Tennessee residents. Applications should be submitted to the University Scholarship Committee.
- **Wiley and Clara Arnold Estep Memorial Scholarship**  
An annual nonrenewable award for a graduate of a Johnson County, Tenn., or a Carter County, Tenn., public high school; and a first-semester junior in good academic standing. Selection based primarily on financial need. Apply to the University Scholarship Committee.
- **ETSU Family Scholarship Endowment**  
For dependents of ETSU employees. Financial need considered. Apply to the University Scholarship Committee.
- **ETSU Retirees Association Scholarship**  
For entering freshmen or transfer students with good academic record. Freshmen 3.2 GPA and at least 26 ACT. Transfers 3.0 GPA. Apply to the University Scholarship Committee.
- **Elizabethton Rotary Club Scholarship**  
For deserving Carter County residents attending East Tennessee State University. Must have resided in Carter County for at least two years. Freshmen, transfers, and continuing students must have a minimum 2.5 GPA. \$1000 per year, renewable with good standing. 12 credits earned each semester with a 2.5 GPA. Apply to the University Scholarship Committee.
- **Harry O. Fine Scholarship**  
For Elizabethton High School graduates entering as freshmen at East Tennessee State University. Must have a minimum 2.5 GPA and have participated in interscholastic athletics for at least three years or been a cheerleader for two years. Student must apply for financial aid at East Tennessee State University. Apply to the University Scholarship Committee.
- **First Tennessee Bank Scholarship Endowment**  
For employees' dependents of First Tennessee Bank. High school students must have a minimum 3.0 GPA and 21 ACT or 970 SAT. Application should be sent to First Tennessee Bank. Selection is made by East Tennessee State University. Apply to the University Scholarship Committee.

- **Margaret Campbell Flanary Scholarship**  
Established in 1974 by an endowment from the estate of Mrs. Flanary. For needy students from Sullivan and Washington Counties, TN. Apply to the Office of Financial Aid.
- **George H. Garrett Memorial Scholarship Endowment**  
Awarded to freshmen from the Tri-Cities area of East Tennessee. Recipients may apply for renewal in future years. Applicants should have demonstrated financial need and demonstrate ability, character, and scholastic performance. Applications should be submitted to the University Scholarship Committee.
- **Buford J. and Mary Jane Goldstein Scholarship Endowment**  
Awarded to full time students pursuing a bachelor's degree with demonstrated financial need. Applicants must have a 2.5 minimum high school or college cumulative GPA. Application should be submitted to the University Scholarship Committee by March 1.
- **Ben and Jeanne Greene Family Scholarship**  
In memory of the Greene's son Benny. For students from Blount County, Tenn. A 2.8 GPA is required. Financial need considered. Apply to the University Scholarship Committee.
- **Edna Harrison Family Scholarship**  
Entering freshmen, undergraduate, and graduate students with a minimum 3.0 GPA and demonstrating good character and promise for future career or professional achievement. Application should be submitted to the University Scholarship Committee by March 1.
- **Heritage Federal Scholarships**  
Awarded to undergraduate and graduate students. First priority is to students who are dependents or employees of Heritage Federal. Second priority is to College of Business students whose primary residence is in the primary marketing area of Heritage Federal. Applications should be submitted to the University Scholarship Committee.
- **Aubrey Hunter Jobe Memorial Scholarship Endowment**  
In memory of Aubrey Hunter Jobe, established by his family and friends. For graduates of Northside High School, Roanoke County, VA. Based on leadership, participation in school activities, and academics. For entering first-time freshmen. Apply to the University Scholarship Committee.
- **Johnson City Lions Club Memorial Scholarship Endowment**  
For disabled students, primarily those with a vision or hearing disability, or a junior, senior, or graduate student preparing for a career working with the disabled. Recipient must have financial need. Apply to the University Scholarship Committee.
- **The Edward D. Jones Investments Scholarship**  
Regional high school students with a GPA of 3.3 or an ACT composite score of 26 should apply to the University Scholarship Committee after nomination by their high school principal.
- **Bill and Lynn Stamm Kovach Scholarship Endowment**  
For deserving and needy undergraduate students. Must demonstrate potential for academic success and have documented financial need. Incoming freshmen must have minimum 2.5 GPA and 24 ACT or above; currently enrolled students must have 3.0 GPA. Apply to the Office of Financial Aid.
- **Minifibers, Inc. Scholarship Endowment**  
This university scholarship is awarded to students from Southwest Virginia or Northeast Tennessee with a minimum high school or college GPA of 2.5 with plans and potential for graduating from ETSU. Applications should be submitted to the University Scholarship Committee.
- **Minority Scholarship Program**  
For entering African-American undergraduate students. Consideration will be given to academic standing or potential for academic success. Apply to the University Scholarship Committee.
- **The Charles and Martha Montgomery Scholarship Endowment**  
The Charles and Martha Montgomery Scholarship Endowment is awarded to full time undergraduate or graduate students with a 2.7 minimum GPA. Application should be submitted to the University Scholarship Committee.
- **Giles W. Morrill Memorial Scholarship**  
Undergraduate applicants must have a 3.0 cumulative GPA. Preference is given to students with demonstrated financial need. Priority given to, but not limited to, residents of Flag Pond, Rocky Ford, Shallow Ford, the south end of Unicoi County, south of Sandy Bottom up to Sam's Gap. Applications should be submitted to the University Scholarship Committee.
- **Mountain City Rotary Club Scholarship Endowment**  
Graduates of Johnson County High School (with at least two years of attendance at the school) with a minimum 2.5 GPA and demonstrated potential for successfully completing college and having success in a career. Application should be submitted to the University Scholarship Committee by March 31.
- **Nontraditional Student Scholarship**  
For ETSU students, other than typical freshmen entering college directly from high school, upgrading career skills on a part time or full time basis. Documented financial need. Apply to the University Scholarship Committee.
- **North American Rayon Corp. Scholarship Endowment**  
Established for immediate descendants of the company. After that, priority will be given to students living in Carter County. Students must have a 2.8 GPA and financial need. An historical research project on the Corporation must be completed, with not more than 10 hours of research. Apply to the University Scholarship Committee.
- **Olive Jane Raber Scholarship Endowment**  
Entering freshmen from Sullivan County high schools are encouraged to apply. First preference shall be given to residents of Sullivan County, Tennessee with a 3.0 GPA. Apply to the University Scholarship Committee.
- **The Paul A. Rowan Scholarship**  
For dependents of employees of Allied Metals Company. Apply to the Office of Financial Aid.
- **Rotary Club of Johnson City**  
For incoming freshmen from Johnson City/Washington County high schools. First priority given to Interact Club members. Must possess a minimum GPA of 3.5, ACT of 28. Nonrenewable. Apply to the University Scholarship Committee.

- **Maude Stewart Smyre Memorial Scholarship Endowment**  
For deserving students attending the Kingsport University Center. Applicants must be from Scott County, Virginia; Eastern Hawkins County, Tennessee; or Western Sullivan County, Tennessee. Application deadline is February 1. Apply to the University Scholarship Committee.
- **Scotty L. Snyder Scholarship**  
For spouses or dependent children of full-time permanent, retired, or deceased staff employees at East Tennessee State University. Apply to the University Scholarship Committee.
- **William B. Stokely, Jr. Scholarship**  
For residents of Cocke County, Tenn. Applicants should have financial need and a strong academic record. Apply to the University Scholarship Committee.
- **Street Family Scholarships**  
For entering freshmen and transfer students from the Southwest Virginia counties of Buchanan, Dickenson, Lee, Russell, Scott, Washington, and Wise. Based on need and academic ability. Current ETSU students not eligible. Apply to the University Scholarship Committee.
- **Tetrick-Oakley Scholarship**  
Established by Heritage Family Funeral Homes with priority to dependents of employees of Tetrick-Oakley Funeral Homes and residents of their service areas. Apply to the University Scholarship Committee.
- **The Eddie Williams, Jr. Memorial Rural Health Scholarship Endowment**  
Rising juniors and seniors with an interest in rural health issues may apply for this scholarship. A 500 word essay describing the applicant's interest in rural health issues will be required. Applicants must have a 2.5 GPA, demonstrate financial need, and be a resident of Northeast Tennessee, Southwest Virginia, or Western North Carolina. Recipients will be required to make at least one public presentation about their work/interest in rural health while receiving this scholarship. Application should be made to the University Scholarship Committee by March 1.
- **The Nancy Vaughn Williams Scholarship Endowment**  
Incoming or currently enrolled students with a 2.8 GPA minimum and demonstrated financial need should apply through the University Scholarship Committee.
- **Robert L. Wyatt Memorial Endowment**  
For students specializing in Geographic Information Systems or Urban Studies. Apply to the University Scholarship Committee.

### Category Three

Students should contact the listed programs directly for application materials. Scholarships are grouped according to general university scholarship programs or alphabetically by college.

### General University Scholarships

- **Academic Honors Programs**  
Honors programs at East Tennessee State University are available at the university level and within certain disciplines. The University Honors Scholars Program awards up to 20 full scholarships each year, which provide costs of tuition and fees, standard dormitory and meal plans, and a book allowance. A number of Honors-in-Discipline Programs offer varying amounts of support and are available in the colleges of Applied Science and Technology, Business, Nursing, and

with Arts and Sciences in the departments of Biological Sciences, Chemistry, Criminal Justice and Criminology, English, History, Physics and Astronomy.

All Honors programs require a special application. Information regarding Honors programs and requests for an application can be obtained by contacting the University Honors Program Office, Box 70294, East Tennessee State University, Johnson City, TN 37614-0294; email [Honors@ETSU.edu](mailto:Honors@ETSU.edu), phone 423-439-6456; or by visiting the office at 914 West Maple Street on the ETSU campus.

Candidates for the University Honors Scholars Program must be first-time freshmen and meet the minimum qualifications of 29 ACT (1280 SAT) and 3.5 or greater high school GPA. Qualified candidates should contact the University Honors Programs Office for a special application, which is due by February 1 of each year. The following named Honors Scholarships are administered as a group and contribute to scholarships for University Honors Scholars:

### Academic Honors Scholarship

**Woodrow W. & Margaret T. Catherman Honors Endowment**  
**Bruce W. Cunningham Honors Endowment**  
**Burgin E. Dossett, Sr. Honors Endowment**  
**Isaac D. & Lenoir W. Eggers Honors Endowment**  
**Allen Harris, Jr. Honors Endowment**  
**Carl A. Jones Honors Endowment**  
**Roy & Ann Nicks Honors Endowment**  
**Robert C. Petrey Honors Endowment**  
**Pirate Club & Intercollegiate Athletics Honors Endowment**  
**Leslie Parks Pope Honors Endowment**  
**Judge Clifford E. Sanders Honors Endowment**  
**Barbara Jaffe Silvers Honors Endowment**  
**Texas Instruments Honors Endowment**  
**Elizabeth L. Williams Honors Endowment**  
**Stuart E. Wood, Jr. Honors Endowment**

- **Amerace Corporation Scholarship**  
Two awards for employees of the Microporous Products Division of Amerace Corp. or dependents or immediate relatives of employees. Recipients must be full-time students and maintain at least a 2.0 GPA. July 1 application deadline. Scholarship applications are available from Amerace and should be submitted to the University Scholarship Committee.
- **Associates Commerce Solutions Leadership Scholarship**  
Awarded in recognition of a student's demonstrated leadership potential. Student must have earned a minimum of 12 credits with a 3.0 cumulative GPA. Application information is available through the Office of Student Life and Leadership. Deadline is March 1.
- **Celebration Church Scholarship**  
Scholarships for those active in the Celebration Church with preference given to international students. Applications should be made through the Office of International Programs.
- **The ETSU Reentry Student Scholarship**  
To enable students to prepare themselves to reenter the job market through academic preparation after being primary caretakers for their households. Apply by June 1 of each year. Apply to the Center for Adult Programs and Services (CAPS).

- **The ETSU/UT at Kingsport Award for Academic Excellence**  
An award to cover the amount of tuition given each fall and spring to a part-time undergraduate student of ETSU/UT at Kingsport earning the highest grade point average for the previous two academic semesters. Apply to the ETSU/UT at Kingsport Center.
- **Friends of the Reece Museum Art Scholarship**  
Awarded to full time art majors with demonstrated financial need. Contact the Reece Museum for application information.
- **Ira M. Gambill Medical Education Trust**  
Scholarships awarded to graduates of Johnson County High School, Mountain City, Tenn. Apply to the principal of Johnson County High School.
- **Robert F. Hardin and Yvette Grindstaff Hannen Scholarship**  
For the graduating seniors with the highest GPAs at Elizabethton High School, Unaka High School, and Hampton High School, Carter County, Tenn., to attend ETSU. Apply to the Principal's Office, Elizabethton High School, Unaka High School, or Hampton High School.
- **Harrell Educational Fund**  
For graduating students from Volunteer High School in Hawkins County, Tenn., who would not otherwise be able to attend college. The maximum award is \$1,000 per year. Students must maintain a 2.0 GPA to be eligible to reapply. Apply to Volunteer High School or the Trust Department of First American Bank, Kingsport, Tenn.
- **Kincaid Family Scholarship Endowment**  
For students with at least sophomore standing who have been accepted in the Cooperative Education Program and have a 3.0 GPA. Apply to the Office of Career Placement and Internship Services.
- **F.G. McCloskey Scholarship**  
For dependents of employees of the Columbus Electric Manufacturing Co. Apply to the Personnel Office of Columbus Electric.
- **Muse-Moody-Holloway Scholarship**  
For an outstanding graduate of Johnson County High School, Mountain City, Tenn. Apply to the Guidance Counselor at Johnson County High.
- **Roan Scholars Leadership Endowment**  
The Roan Scholars Leadership Program awards four full scholarships that cover the cost of tuition, room, meals and a book allowance. The scholarship is renewable on a yearly basis for four years, based on academic performance. The purpose of the scholarship is to identify students with strong leadership potential, provide well-designed leadership development opportunities during their college experience, and prepare the students to be future community leaders. **Students may not apply directly to this program. Selected high schools are invited to nominate the school's most outstanding student leader(s).** Nomination materials are mailed annually to the principals of selected high schools. The following scholarships support the Roan Scholars Leadership Endowment:  
  
**Mabel Haire Campbell Roan Scholarship**  
**Eastman Chemical Company Roan Scholarships**  
**Greene County Bank Roan Scholarship**  
**Gump Family Roan Scholarships**  
**Haskell Tate and Ruth Stout Hodges Roan Scholarship**  
**Ted R. Hughes Roan Scholarship**  
**Carl A. Jones Roan Scholarship**  
**Kathryn P. Jones Roan Scholarship**

- **Scott M. Niswonger Roan Scholarships**
- **Iona B. and Helen F. Shields Roan Scholarship**
- **Washington County Bank Roan Scholarship**

#### College of Applied Science and Technology Scholarships

- **Army ROTC Financial Assistance Program**  
A two-year scholarship in the amount of tuition, fees, cost of textbooks, laboratory expenses, and classroom materials for juniors and seniors in the ROTC program. Apply to the Department of Military Science.
- **Wayne G. Basler Incentive Scholarship Endowment**  
Established by Mr. Wayne Basler for technology majors. Apply to the Department of Technology.
- **Harryet S. Blackwell Scholarship Endowment**  
Students must have an above-average GPA with considerations being given to students with demonstrated financial need. Preference will be given to students from Northeast Tennessee (Washington, Carter, Johnson, Unicoi, Sullivan, Greene, Hawkins, Hancock counties) and Southwest Virginia (Scott, Washington, and Lee counties). Applications should be submitted to the Department of Applied Human Sciences by March 1.
- **Floyd A. Branam Memorial Scholarship Endowment**  
For declared majors in Building Construction Technology with a 2.5 minimum GPA and demonstrated financial need. Contact the Chair of the Department of Technology.
- **Kevin Wayne Bunn Memorial Scholarship Endowment**  
For students who are declared majors in the Department of Geography, Geology, and Geomatics. Must have a GPA of 2.8 with financial need. Contact the Department of Geography, Geology, and Geomatics.
- **Crouch/Fulton/TAPS Scholarship Endowment**  
For students majoring in engineering, surveying concentration. Must be a junior or senior. Apply to the Department of Technology.
- **Dotson Family Army ROTC Scholarship Endowment**  
For contracted ROTC students with sophomore or junior standing. Must have a 2.8 cumulative GPA with a minimum 3.0 GPA for the previous semester. Apply to the Department of Military Science.
- **John Foster Memorial Scholarship Endowment**  
Awarded to students from Virginia studying Surveying and Mapping Science. 2.5 GPA minimum. Submit applications to the ETSU Surveying and Mapping faculty.
- **Capt. Daniel E. Graybeal Memorial Scholarship Endowment**  
In honor of the memory of Capt. Daniel E. Graybeal and to provide scholarships for full-time ETSU students contracted in Army ROTC. Apply to the Department of Military Science.
- **James and Jane Hales Scholarship**  
Awarded to full time undergraduate, graduate, or doctoral students in the College of Applied Science and Technology. Applicants must have a minimum 3.0 GPA. Applicants must have documented financial need. Applications should be submitted by March 1 to the College of Applied Science and Technology.
- **Calvin Lee Justis, Jr. Memorial Scholarship Endowment**  
Awarded to majors in Computer Science with demonstrated financial need. Preference given to re-entry students. Contact the Department of Computer Science.

- **Juanita West Proffitt Scholarship Endowment**  
For majors in the Department of Applied Human Sciences. Apply to the Department of Applied Human Sciences.
- **Pete Ragan Survey Scholarship**  
Provided by Ragan-Smith to a student majoring in Surveying. Preference given to a student from Middle Tennessee. Nominations are made by the faculty in the Department of Geography, Geology, and Geomatics. Application deadline is June 1.
- **Vivian V. Rockwood Scholarship Endowment**  
For a rising senior with a 3.5 GPA and is a member of Kappa Beta Rho Chapter of Kappa Omicron Nu. Apply to the Department of Applied Human Sciences.
- **Rufus H. Smith, Jr. Housing Foundation Scholarship Endowment**  
For juniors or seniors from the greater Knoxville region in the Construction Technology Program. Students must have a minimum 2.75 GPA and demonstrate financial need. Apply to the Department of Construction Technology.
- **Texas Instruments Computer-Integrated Manufacturing Scholarship Endowment**  
For students who demonstrate an academic and professional interest in Computer Integrated Manufacturing with a 3.0 GPA. Apply to the College of Applied Science and Technology or the College of Business, Office of Undergraduate Studies.
- **Lt. Robert B. Thorne Memorial Scholarship Endowment**  
Awarded to deserving ROTC cadets in memory of Lt. Thorne. Application should be made to the Department of Military Science.
- **Tittle Construction Technology Scholarship**  
To be awarded to a student studying Construction Technology in the College of Applied Science and Technology. Contact the Dean of the College of Applied Science and Technology.
- **Clive W. and Esther W. Bare Endowed Scholarship**  
Awarded to students majoring in political science and having demonstrated financial need. Applications should be submitted to the Department of Political Science.
- **Biological Sciences Research Award Endowment**  
Awarded to graduate students with demonstrated promise in scientific research and for achievement following graduation. Written statement by applicant must describe the research and methods that will increase scientific knowledge to preserve the natural resources of Tennessee. Applications should be submitted to the Department of Biological Sciences.
- **Teresa Bowers Scholarship Endowment**  
For voice majors. Awarded by the Music Faculty Scholarship Committee on the basis of competitive auditions. Apply to the Chairman, Department of Music.
- **Morton A. Brown Scholarship Endowment**  
In honor of Dr. Morton A. Brown. For a junior, senior, or graduate history major with a GPA of 3.0 or better. Apply to the Department of History.
- **Chemistry Scholarship Endowment**  
Awarded to freshmen with a commitment to major in chemistry. Recipients must maintain a 2.7 cumulative GPA and a 2.7 GPA in all chemistry courses taken in a given academic year. Applications should be submitted to the Department of Chemistry.
- **Dr. Richard Compton Memorial Scholarship**  
In memory of Dr. Benjamin Richard Compton, III. A competitive, renewable scholarship for a rising sophomore, junior, or senior concentrating in woodwinds or strings. Must have a 3.0 GPA. Apply to the Department of Music.
- **Floyd Cramer Endowment Fund for Music Scholarships**  
A three-fold scholarship program providing:
  - a. Annual scholarship for students enrolled in music at ETSU;
  - b. The annual Floyd Cramer Performance Accompanying Scholarship for a talented student to accompany faculty recitals, student senior recitals, and performing organizations;
  - c. Nonrenewable awards to music students based on student's financial need, department need for specific skills, and student merit.

#### College of Arts and Sciences Scholarships

- **Holly Adams Memorial Scholarship Endowment**  
In memory of a 1987 graduate. Applicants must be rising juniors majoring in art and design and must have a minimum 2.8 GPA. Apply to Chair, Department of Art.
- **Ruth Corpening Adams Scholarship**  
This scholarship supports sophomores majoring in art and design. Applicants must be rising sophomores. Apply to Chair, Department of Art and Design.
- **Lamar Alexander Scholarship Endowment**  
For full-time ETSU students participating in activities of the ETSU Department of Music and the Johnson City Symphony. Awards based on competitive auditions. Currently enrolled ETSU students must maintain minimum 2.8 GPA. Specific course requirements determined by Lamar Alexander Scholarship Committee of the Johnson City Symphony. Apply to the Chairman, Lamar Alexander Scholarship Committee, Johnson City Symphony, P.O. Box 53, Johnson City, TN 37601.
- **Elsie Artz Memorial Scholarship**  
For a music major concentrating in piano and strings. Apply to the Department of Music.
- **Awards in (a) and (b) categories based on competitive audition.**  
Recipients may reapply in subsequent years. Currently enrolled ETSU students must hold minimum 2.8 GPA. Specific course requirements determined by Faculty Scholarship Committee. Apply to the Department of Music.
- **Crawford-Williams Scholarship Endowment**  
For an outstanding student majoring in history. Apply to the Department of History.
- **John R. Cunningham Memorial Scholarship Endowment**  
For future law enforcement personnel. Incoming freshmen must have minimum 2.5 high school GPA; currently enrolled students must have minimum 3.0 GPA. Apply to the Chairman, Department of Criminal Justice and Criminology.
- **Rex Denwil Depew Memorial Scholarship**  
Awarded to full time students majoring in math and preparing for a teaching career. Apply to the Department of Mathematics.

- **ETSU Friends of Theatre Scholarship Endowment**  
For students with strong interest in theatre. Apply to the Department of Communication.
- **Faber-Neal Scholarship Endowment**  
Awarded to a worthy and needy sophomore mathematics major. Must demonstrate a commitment to a successful career in the field of Mathematics. Apply to the Department of Mathematics.
- **Foreign Language Scholarship**  
Scholarships for foreign language students. Contact the Department of Foreign Language faculty.
- **Joy Faye Fox Memorial Scholarship Endowment**  
Awarded to Art majors that are entering freshmen, a graduate of University High School, and have a minimum 2.8 cumulative GPA. Apply to the Department of Art by March 1.
- **William Harvey Fraley and Nina M. Fraley Memorial Award Endowment**  
Awarded to graduate students demonstrating promise in scientific research in the Department of Biological Sciences. Research must provide increased scientific knowledge in molecular, cellular, or organismal biology. Applications for this award should be submitted to the Department of Biological Sciences.
- **Frank Scholarship Endowment**  
For students who are declared majors in speech with a concentration in theatre or who show commitment to the theatre. Must have a 2.7 GPA and audition/interview. Contact the ETSU Division of Theatre.
- **Boris Franzus Endowment**  
Awarded to undergraduate and graduate students excelling in chemistry. Apply to the Department of Chemistry.
- **Margaret and Ruth Hays Art Scholarship Endowment**  
In memory of a former faculty member of the Department of Art, this scholarship is open to students entering the University as first-time freshmen. Application portfolios are evaluated during early April. Applications should be made to the chair, Department of Art and Design.
- **Mary Bomar Herrin Memorial Scholarship**  
Two annual awards in memory of a late member of the Department of English. For a deserving student in English and one in Communication. Apply to the Department of English or the Department of Communication. Selected by a scholarship committee.
- **Jeffrey Lynn Hightower Memorial Scholarship Endowment**  
Math students with at least a 3.25 GPA should submit applications to the Chair of the Department of Mathematics.
- **Journalism Scholarships**  
See listing below: note geographic restrictions concerning legal residence. Awarded to help defray expenses of juniors and seniors who are majoring in journalism. Recipients are selected on the basis of demonstrated academic achievement and indicated potential for a successful career in journalism. Selections are made by the Journalism Scholarship Committee, which consists of faculty members and professional newsmen. All journalism majors and minors of record are eligible and will automatically be considered. Apply to the Department of Communications by February 1.

**The Johnson City Press Journalism Scholarship**

An annual grant of \$500. All citizens of the United States are eligible.

**The Kingsport Times-News Journalism Scholarship**

An annual grant of \$750. All citizens of the United States are eligible.

**George W. Kelly Scholarship Endowment**

For journalism majors with a GPA of 3.5.

**The Richard Cobb Miller Memorial Scholarship in Journalism**

An award of \$400 for each of the junior and senior years. All citizens of the United States are eligible.

**Tri-City Metro Advertising Federation**

An award for a junior or senior advertising major with a GPA of 3.0 or better.

• **W. Hanes Lancaster, Jr. Scholarship**

In honor of the former vice president and general manager of WJHL-TV. For rising seniors in broadcasting. A 3.0 GPA is required. Financial need considered. Apply to the Department of Communication.

• **Jill MacLean Memorial Scholarship Endowment**

For junior and senior English majors. Apply to the Department of English.

• **Christopher T. Mahan Memorial Scholarship**

Awarded to full- or part-time students with demonstrated financial need majoring in criminal justice. Preference will be given to students who graduated from Sullivan Central High School. Application should be made to the Department of Criminal Justice.

• **Mary and Ambrose Manning Scholarship Endowment**

For a rising junior or senior English major with a GPA of 3.0, who has demonstrated academic excellence and financial need. Apply to the Chairman, Department of English.

• **Maxine Matthews Scholarship**

For students in the Department of History. Contact the Department of History.

• **Todd W. McKeehan Memorial Scholarship**

Awarded to full time students showing exceptional promise for contributing to the field of criminal justice and majoring in Criminal Justice. Apply to the Department of Criminal Justice by March 1.

• **Golda M. Merrill Scholarship Endowment**

In memory of Golda M. Merrill. For English majors with junior standing. Student must have a 3.0 GPA and a 3.2 GPA in the Department of English. Apply to the Chairman, Department of English.

• **Harry G. Merrill Scholarship Endowment**

In memory of Harry G. Merrill. For English majors with senior standing and intending on completing a master's degree at ETSU. Student must have a 3.0 GPA and a 3.2 GPA in the Department of English. Apply to the Chairman, Department of English.

• **The Rush W. and Celma Davis Murphy Scholarship Endowment**

Awarded to students dedicated to the field of social work with preference to those from Tennessee showing financial need. Awards will be made by the ETSU Scholarship committee in conjunction with the Department of Social Work.

- **Dr. Herman O'Dell Scholarship Endowment**  
Award to be made to a junior majoring in Biology. Selection will include service and extra-curricular activities as well as GPA. Contact the Chair of Biological Sciences.
- **Walter Garland Patton Memorial Scholarship**  
For a student working toward a career in church music. Established from an endowment from Mrs. Sara Garland Patton in honor of her son. Selection by a faculty scholarship committee. Renewable by same application procedure. Apply the Department of Music.
- **Powell Choral Music Scholars Scholarship Endowment**  
Music students with a minimum GPA of 2.5 may receive awards for voice or instrumental performance. Applications should be submitted to the ETSU Department of Music.
- **William Flinn Rogers Scholarship Endowment**  
For academic excellence in the study of history. Apply to the Chairman, Department of History.
- **The Ella Virginia Ross Scholarship Endowment**  
A scholarship for a junior or senior music major. Apply to the Department of Music.
- **David R. Scruggs Memorial Scholarship**  
For criminal justice majors. Apply to the Department of Criminal Justice and Criminology.
- **Mary Florence and Virgil C. Self Scholarship Endowment**  
For a talented music major concentrating in keyboard or voice, with first preference to organ. Applicants may be rising sophomores, juniors, or seniors with minimum 3.0 GPAs. Apply to the Department of Music.
- **Margaret Sells Chemistry Scholarship Endowment**  
For full time graduate students in Chemistry. Must maintain a minimum 3.5 cumulative GPA. Apply to the Department of Chemistry.
- **Barbara Jaffe Silvers Memorial Scholarship Endowment**  
Awarded to deserving students by the Department of History. Application should be made to the Department of History.
- **Benny Sims Memorial Scholarship Endowment**  
Must have demonstrated financial need. Awarded to full time students participating in the Bluegrass and Country Music program. Apply to the Department of Music.
- **The Robert H. Smith, Sr./WCYB-TV Scholarship**  
A memorial to Mr. Smith, a founder of Appalachian Broadcasting Co. For students from the WCYB-TV service area, primarily East Tennessee, Southwest Virginia, Western North Carolina, and Eastern Kentucky, who are rising juniors or seniors majoring in communication with emphasis in broadcasting and who can demonstrate financial need. Apply to the Chairman, Department of Communication.
- **Southern Dames Scholarship**  
For outstanding political science majors. Contact the Department of Political Science.
- **Edward L. Stanley Scholarship Endowment**  
For meritorious students planning to major in mathematics. Freshmen must have minimum high school GPA of 3.2 and ACT composite of 25. Renewable at the discretion of the selection committee if student maintains minimum 3.2 GPA. Apply to the Chairman, Department of Mathematics.
- **Charline Stansbury Scholarship Endowment**  
For academic excellence to a rising senior in the public relations section of the Department of Communication. Apply to the Department of Communication.
- **Charles F. Wilkey Mathematics Scholarship Endowment**  
Awarded to students who are juniors and above who show dedication and devotion to the field of mathematics. Minimum 3.5 GPA's should submit applications to the Chair of the Department of Mathematics.
- **Wilson-Hartsell Scholarship Endowment**  
For students majoring in mathematics. Apply to the Department of Mathematics.
- **Dr. Eduarado Zayas-Bazan Scholarship Endowment**  
For students majoring or minoring in Spanish with a desire to participate in the Spanish summer abroad program. Applications should be submitted to the Chair of the Department of Foreign Languages.

### College of Business Scholarships

- **Glenn N. Barker Scholarship Endowment**  
For transfer students and continuing ETSU students with a declared business major and a minimum 3.0 GPA. Applicants must demonstrate financial need. Renewal may be possible through the student's graduate program. Applications should be submitted to the College of Business Scholarship Committee by March 1.
- **American Production Inventory Control Society (APICS) Scholarship**  
For a student majoring in management with a concentration in operations management. Contact the Chair of the Department of Management and Marketing.
- **Gene and Jan Burleson Business Scholarship Endowment**  
Awarded to students who show determination to complete the requirements for a bachelor's degree. Apply to the College of Business.
- **Fred Cason Scholarship Endowment**  
For rising accounting professionals. Applications should be sent to the Department of Accountancy.
- **Clyce Distributing Scholarship**  
For deserving students in the College of Business. Contact the College of Business Student Affairs Committee.
- **College of Business Scholarship**  
For outstanding business majors. Application deadline is March 1. Apply to the Dean's Office, College of Business.
- **Gary Cooter & Mark Heaton Memorial Scholarship Fund**  
Awarded to graduate students majoring in the Master of City Management Program and demonstrating academic ability. Applications should be submitted to the Master of City Management Program by March 1.
- **J. Thomas Davis Memorial Scholarship**  
Established by friends and family of J. Thomas Davis for students majoring in marketing. Application deadline is March 1. Apply to the College of Business.
- **Economics Scholarship**  
Awarded to students who are Economics majors with a minimum GPA of 2.75. Contact the College of Business Student Affairs Committee.



- **General Shale Products Scholarships**  
Business majors must have demonstrated financial need and minimum 3.0 cumulative GPA. Preference will be given to students residing in Northeast Tennessee, Southwest Virginia, or Western North Carolina. Apply to the College of Business.
- **Harris Foundation Scholarship Endowment**  
For rising sophomores, juniors, or seniors in the College of Business. Applicants must hold minimum 3.0 GPA. Preference to residents of Northeast Tennessee followed by other Tennessee residents. Application deadline is March 1. Apply to the Dean's Office, College of Business.
- **Holston Distributing - Stuart E. Wood, Jr. Scholarship Endowment**  
For students majoring in marketing. Apply to the Department of Management and Marketing. Deadline is March 1.
- **Home Federal Bank of Tennessee Scholarship Endowment**  
Scholarships shall be awarded to students in the College of Business who show outstanding promise in the field of business. A minimum GPA of 3.0 is required. Applications should be submitted to the College of Business Student Affairs Committee.
- **Gary R. Johnson Scholarship**  
For graduates in Urban and Regional Planning with a GPA of 3.0 or better and who show professional promise in the field. Apply to the Department of Economics, Finance, and Urban Studies.
- **Johnson City Business Club Scholarship**  
For rising junior or senior business majors from Johnson, Washington, Cocke, Greene, Unicoi, or Hawkins counties, Tenn. A 3.0 GPA is required. Apply to the Dean's Office, College of Business. Deadline is March 1.
- **Johnson City Human Resource Association Scholarship**  
For students who are declared Human Resources majors with a 2.5 minimum GPA. Contact the College of Business Student Affairs Committee.
- **Jones/Myers Real Estate Appraisers Scholarship**  
Students majoring in economics/finance, real estate concentration. Must be a junior or senior. Apply to the Department of Economics and Finance.
- **Edsel H. Lester Scholarship Endowment**  
Awarded to full-time business majors from Buchanan, Dickenson, Lee, Russell, Scott, Washington, or Wise counties in Virginia. Apply to the College of Business.
- **C.C. and Alice Marshall Business Scholarship Endowment**  
First preference given to a business major that is a member of the men's golf team. Apply to the College of Business.
- **Joyce L. Mason Scholarship Fund**  
Scholarships for rising junior or senior Finance majors with an overall 3.0 GPA. Documented financial need shall be considered. Contact the College of Business Student Affairs Committee.
- **Scott and Muriel Mayfield Business Scholarship Endowment**  
Awarded to business majors who are members of the Intercollegiate Men's Golf Team. Apply to the College of Business.
- **Roy and Ann Nicks Business Scholarship Endowment**  
Awarded to business majors in honor of Roy and Ann Nicks. Apply to the College of Business.
- **James and Sandra Powell Business Scholarship Endowment**  
Awarded to business majors in honor of Mr. and Mrs. Powell to ETSU. Apply to the College of Business.
- **Real Estate Scholarship**  
For junior or senior real estate majors. Made possible by Johnson City Realtors and alumni. Apply to the Real Estate Division of the Department of Economics and Finance.
- **Russian-Eurasian Scholarship**  
For Russian-Eurasian students studying in the Department of Economics, Finance, and Urban Studies. Contact the Department for information.
- **Karl W. Sharp Accountancy Excellence Scholarship**  
For incoming freshmen who meet the following standards:
  - a. Demonstrate academic and professional promise in accountancy.
  - b. Score at 90th percentile or higher on the ACT or SAT.
  - c. Rank in the top 10 percent of their high school graduating class.Apply to the Department of Accountancy.
- **Texas Instruments Computer-Integrated Manufacturing Scholarship Endowment**  
For students who demonstrate an academic and professional interest in Computer Integrated Manufacturing with a 3.0 GPA. Apply to the College of Applied Science and Technology or the College of Business, Office of Undergraduate Studies.
- **Ray and Janie Thomas Scholarship Endowment**  
Business majors must be rising sophomores, juniors, or seniors with a minimum 3.0 cumulative GPA. Apply to the College of Business.
- **Fred C. Ward Memorial Endowment**  
Awarded to recognize outstanding accountancy majors. Apply to the Department of Accountancy.
- **James H. Widener Memorial Scholarship Endowment**  
Undergraduate and graduate students interested in risk management/insurance after graduation. Applicants must be Tennessee residents with a minimum 3.0 GPA. Preference will be given to a member or dependent of the Johnson City Lions Club or other Lions Club in Tennessee. Applications should be submitted to the College of Business Scholarship Committee by March 1.

#### College of Education Scholarships

- **Dr. Montess Byrd Memorial Scholarship**  
Elementary Education and Early Childhood Education majors with a 3.0 GPA and documented financial need should apply to the College of Education Scholarship Committee.
- **Claudius G. and Katherine Earnest Clemmer Endowment**  
For rising junior, seniors, or graduate students who are preparing for a career in teaching. Apply to the Dean's Office, College of Education.
- **ETSU College of Education Scholarship Endowment**  
For elementary and secondary education majors. A 3.0 GPA required. Apply to the Dean's Office, College of Education.

- **Sara J. Goodin Memorial Scholarship**  
In memory of Sara J. Goodin. For needy students with a 3.2 GPA in their undergraduate work. Students must be seeking Master of Arts in teaching degree. Apply to the College of Education.
- **Joan Brandon Hull Memorial Scholarship Endowment**  
Undergraduate and graduate Education majors with a minimum 2.8 GPA and documented financial need. First preference will be given to students from Greene County, Tennessee. Apply to the College of Education Scholarship Committee by April 1.
- **Professor E.E. and Margaret Johnson Hawkins Memorial Scholarship Endowment**  
In memory of Professor E. E. and Margaret Hawkins. For elementary or secondary education majors from Northeast Tennessee (Washington, Carter, Unicoi, Sullivan, Greene, and Johnson counties). Financial need considered. Apply to the Dean's Office, College of Education.
- **Dr. L. Scott Honaker, Jr. Memorial Scholarship**  
In memory of a former dean of the College of Education. For a rising junior or senior education major. A 2.8 GPA is required. Apply to the Dean's Office, College of Education.
- **Mabel Clair Ligon Memorial Scholarship Fund**  
For undergraduate and graduate education students with the following standards:
  - a. Demonstrated financial need.
  - b. Minimum GPA 3.0 undergraduate, 3.5 graduate.
  - c. Full-time rising junior, senior, or graduate student.
  - d. Major: undergraduate-secondary or elementary teacher preparation program; graduate-counseling, school or clinical psychology. Apply to the Dean's Office, College of Education.
- **Military Order of the Purple Heart Endowment**  
To provide funding for an Award of Excellence, Research, or Special Projects in the Child Study Center and to offer special training opportunities to regular and special educators in rural school settings. Apply to the Director, Division of Special Education.
- **Carolyn G. Palmer Memorial Scholarship Endowment**  
For students in education or educational media. Priority given to North Carolina or Tennessee residents. Apply to the College of Education.
- **Phi Delta Kappa Scholarship**  
Awarded to education majors. Apply to the College of Education.
- **Lloyd T. and Winifred O. Roberts Scholarship Endowment**  
For physical education majors. Apply to the Chairman, Department of Physical Education, Exercise, and Sport Sciences.
- **Louise Skalko Scholarship Endowment**  
For students in instructional technology with a declared media services major. Preference will be given to disabled students. Financial need considered. Apply to the College of Education.
- **John L. and Grace Wilson Wade Family Scholarship**  
In memory of Judge Clive W. Bare and John L. and Grace Wilson Wade. Awarded to education majors who have documented financial need. Apply to the College of Education.
- **Isabel Hayes Williams Scholarship Endowment**  
In memory of Isabel Hayes Williams. For students with a 2.8 GPA who exhibit great promise as teachers or educators. Apply to the College of Education. Deadline March 1.

## College of Nursing Scholarships

- **Jay L. and Levenia S. Allen Memorial Scholarship Endowment**  
Applicants must have demonstrated financial need. Must be rising junior or senior with a cumulative 3.0 GPA and formally admitted as a major in nursing or public health. Demonstrate leadership and care and concern for individuals and communities. Apply to the College of Nursing or the College of Public and Allied Health by March 1.
- **Norma Paisley Barker Memorial Scholarship Endowment**  
In memory of a nursing alumna, Norma Barker '75, '80. For graduate students formally admitted into the Nursing Program. Apply to the Dean's Office, College of Nursing. Deadline is June 1.
- **Betsy H. Brogan Scholarship Endowment**  
For full-time undergraduate and graduate students formally admitted into the Nursing Program. Apply to the College of Nursing. Deadline is June 1.
- **Mayme Frazier Scholarship Endowment**  
For premed or nursing undergraduate or medicine or nursing postgraduate students from the College of Nursing. Apply to the College of Nursing. Deadline is April 15.
- **Ms. Robert Lee Gilmer Memorial Scholarship Endowment**  
Awarded to students in the BSN program who are graduates of a high school in Russell County, Virginia. Applications should be submitted to the College of Nursing Scholarship Committee.
- **Eleanor H. Lowry Scholarship Endowment**  
For students accepted into the BSN nursing degree program. Apply to the College of Nursing. Deadline is June 1.
- **Barbara Oakley Memorial Scholarship Endowment**  
For nursing students accepted into the B.S.N. major. Apply to the College of Nursing. Deadline is March 1.
- **Outlook Pointe Nursing Scholarship**  
For junior or senior BSN students with financial need. Contact the College of Nursing Student Affairs Committee.
- **Tennessee Nurses' Association Scholarship Endowment**  
For a nursing student during his/her final academic year of clinical courses. Student must be full-time, have a minimum 3.0 GPA, demonstrate leadership in both school and community activities, including membership in a local chapter of the Tennessee Association of Student Nurses or a constituent of the American Nursing Association. Apply to the Dean's Office, College of Nursing.
- **Guy B. and Miriam O. Wilson Memorial Nursing Scholarship Endowment**  
For a rising junior or senior enrolled in the B.SN program with demonstrated financial need. Apply to the College of Nursing by March 1 of each year.

## College of Public and Allied Health Scholarships

- **Jay L. and Levenia S. Allen Memorial Scholarship Endowment**  
Applicants must have demonstrated financial need. Must be rising junior or senior with a cumulative 3.0 GPA and majoring in nursing or public health. Demonstrate leadership and care and concern for individuals and communities. Apply to the College of Nursing or the College of Public and Allied Health by March 1.

- **Sam D. and Jonelle M. Coffey Scholarship Endowment**  
For students in their final semester in respiratory therapy. Apply to the College of Public and Allied Health.
- **First District Dental Society Auxiliary Scholarship Endowment**  
Provides awards for distinguished students and funds for scholarly activities to those studying in the Dental Auxiliary education programs at ETSU. Contact the Auxiliary to the First District Dental Society and the Dean of the College of Public and Allied Health for more information.
- **Bruce A. and Amelia R. Goodrow Endowment**  
Applicants must be committed to a career in a public health profession and preference will be given to candidates majoring in community health, public health administration, or environmental health. Preference will be given to residents of Hawkins or Grainger Counties, or veterans of military forces of the United States residing in East Tennessee, or to students residing in any other rural East Tennessee county. Apply to the College of Public and Allied Health by February 1.
- **William M. “Mac” Hensley Scholarship Endowment**  
For Tennessee residents majoring in physical therapy and committed to helping people through the practice of physical therapy may apply for this scholarship after the completion of four semesters in the Physical Therapy Program. Applicants should reflect high moral character and Christian values. Apply to the Department of Physical Therapy.
- **John P. Lamb, Jr., Memorial Scholarship**  
In memory of John P. Lamb, former dean of the College of Public and Allied Health. For public health major with a 3.0 GPA. Apply to the Department of Public and Allied Health. A committee of faculty and students makes selection. Applicants must be rising juniors or seniors with potential to succeed in a health education career.
- **Dr. Francis Ward Morgan Memorial Scholarship Fund**  
In memory of Dr. Francis Morgan for dental hygiene majors who have completed the first year of dental hygiene with a 3.0 GPA. Apply to the Department of Dental Hygiene.

## STUDENT SERVICES AND RESOURCES

Regard for the student as a person, and provision of opportunities for participation in the co-curricular life of the university are basic commitments of East Tennessee State University. Dedicated, caring individuals strive to give the student a sense of belonging to ETSU. Student services include an orientation program, financial aid, housing, personal counseling, and advising to help plan a program of study or choose a vocation. Student services are available to meet the special needs of minority groups, students with disabilities, and those with specific health or academic problems.

Various student services are described below. Additional information about any of these services can be secured by contacting the Office of Student Affairs, upper level of the D.P. Culp University Center, phone 439-4210.

**Academic Advising** — 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 who entered ETSU fall 1997 or later with less than 60 credits are required to meet with an advisor prior to registration. The 60 credit guideline is the minimum advisement requirement. Some colleges and departments have additional advisement requirements for their students. You should consult with your academic advisor to determine your requirement.

All students have an assigned advisor and should confer with the advisor regularly. An advisor can be assigned or changed by contacting the advisement coordinator of the college or school in which the student’s major is offered.

Students who have declared a major should see an advisor in that major. Students who have not declared a major 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 enrolled in Developmental Studies courses will need to see an advisor in Developmental Studies. Students taking classes in Bristol, Kingsport, or Greeneville may contact these centers for advisement information. Other areas may contact the student to discuss additional advisement opportunities such as Athletics, the Center for Adult Programs and Services (CAPS), Students Support Services, Pre-Med and the Pre-Professional areas.

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

**Adult Programs and Services** — The Center for Adult Programs and Commuting Student Services represents a unique collection of academic and student support services designed especially for adult, transfer and re-entry students. Center staff provides a wide spectrum of highly individualized services designed to ease the transition of the new adult student as well as the transfer student into the university setting. Assistance is also available for continuing adult students.

Special adult transition programs for entering students are held before the beginning of each semester. The center also serves as a focal point for information about careers, child care, financial aid, scholarships, off-campus housing, and provides personalized referral for university services. Other services include pre-semester programs for first-time adults as well as transfer students, and a variety of other services for commuting students.

A series of seminars on such topics as career planning, wellness, and successful parenting are scheduled periodically throughout the year. The staff of the center includes adult students who have already made a successful transition to college life and are sensitive to the concerns and needs of the returning adult. The Center for Adult Programs and Commuting Student Services is located in the ARC Center on the second level of the Culp University Center and is open from 8 a.m.-7 p.m. Monday and Tuesday, and 8 a.m.-4:30 p.m. from Wednesday-Friday, phone 439-5641.

**Advisement, Resources, and Career Center** — The Advisement Resources and Career Center (ARC) is located on the second level of the D.P. Culp University Center next to the Bookstore, phone 439-8650. The ARC is open Monday-Tuesday from 8:00 a.m. - 7:00 p.m.; Wednesday-Friday 8:00 a.m. - 4:30 p.m. during the fall and spring semesters.

The ARC is staffed by professionals who evaluate students’ academic progress as it relates to their personal aspirations and career goals. In addition to advising students, referrals for additional academic assistance are made when necessary.

The ARC is user-friendly so that students can access advisement, career and support services without ever leaving the facility. The ARC serves as a primary resource for students who have a variety of needs including those who are entering the university for the first time, those that are unsure about an academic major or career option, and those who wish to take advantage of various academic support services to enhance their classroom learning. The ARC incorporates several academic and student support services listed below.

- University Advisement Center - Undeclared (439-5244) — The Center offers academic advising and counseling to all students who have not declared a specific major or who are not yet ready to commit to a major at ETSU. Counselors help students understand and complete General Education requirements and assist students to identify careers and coursework that affirm their academic strengths and interests.

- Career Placement and Internship Services (439-5388) — The office provides Internet job access worldwide, electronic placement file registration, resume design, and video conferencing for interactive interviews to enable students and alumni to access the job and career of their choice. Cooperative Education/Internship Services is located in the ARC.

- Center for Adult Programs and Commuting Student Services (439-5641) — Personalized counseling and advisement for first-time, transfer and re-entering adult students. Commuting Student Services: car pool, off-campus listings, transit schedules, area maps and day care/babysitter listings. “One-Stop Shopping” for campus forms, applications, catalogs, schedules and information. The “home” for two adult student organizations: Once Again Students In School (OASIS) and Alpha Sigma Lambda - the adult student honor society. CAPS is “the” place for adult and commuting students.

- NEXUS/Inside Track (439-8653 or 439-6187) — NEXUS is a freshman retention program offering services such as mentoring, career counseling, tutoring, and workshops specifically geared to new freshmen. Inside Track offers individual tutoring in all General Education Core courses. Supplemental Instruction is offered in selected high-risk courses.

- Peer Career Center (439-8651) — Located in the ARC, the Peer Career Center is a starting place for students who are uncertain about their career choice. With the assistance of our professional staff, career interest inventories, personality inventories, and an extensive career library, we can help students identify career options that suit their personal needs. These services are free to current and potential ETSU students, as well as alumni.

• Undergraduate Student Advisement (439-8557) — Responsible for the coordination and continuous improvement of advisement. For advisement information visit our web site <http://www.etsu.edu/advismnt>.

**Alumni Association** — The ETSU Office of University Alumni is the campus contact for more than 60,000 university graduates and former students. All of these individuals are members of the ETSU National Alumni Association.

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

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

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

**Arts and Crafts Shop** — The Arts and Craft Shop is located on the lower level of the D. P. Culp University Center. The Craft Shop is available for use by students, faculty, staff, and their immediate families. Instruction is offered in ceramics, basket weaving, stenciling, floral decorating, stained glass, and other crafts.

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

**Bookstore** — The University Bookstore carries a supply of new and used textbooks, paperbacks, imprinted gift items, school and office supplies, art and engineering supplies, stationary, greeting cards and class rings. Gift certificates, computer software and computer supplies are also available. We now offer a free pre-pack service for your textbooks. The University Bookstore is located on the middle level of the D.P. Culp University Center and is open fall and spring semester Monday-Thursday 7:45 a.m. until 6 p.m. and Friday 7:45 a.m. until 4:30 p.m., phone 439-4436. Summer hours: Monday - Friday 8 a.m. until 4:30 p.m.

**Busing System** — The university operates a free shuttle system for students, faculty, staff, and visitors, linking parking lots on the perimeter of the campus with main academic and administrative buildings. Operation hours are scheduled during peak class periods as well as in conjunction with selected major campus events. Schedule, route, and other details are available at various locations on campus including the Center for Adult Programs and Commuting Student Services, lower level of the Culp University Center, phone 439-5641.

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

The Counseling Center provides the following career services: (1) individualized counseling; (2) printed instruments to help students assess their interests, values, abilities, and personality traits as a means of choosing a career well suited for them; (3) a user-friendly computerized career guidance program to give information about work in specific occupations, trends in the job market, likes and dislikes of workers, beginning salaries, future opportunities, and related fields; (4) lists of professionals in the area willing to discuss the day-to-day opportunities in their field of study. Faculty advisors may discuss opportunities in their field of study.

Consultation with the Office of Career Placement and Internship Services staff can help by providing: (1) job placement opportunities for full-time, part-time, and summer employment; (2) field experience-based cooperative education for academic credit; (3) an occupational and

employment information library for information on career opportunities including data on specific area employers; (4) workshops and seminars on career planning, resume writing, interview techniques, and job-hunting skills; (5) computer-assisted job matching and resume design; (6) national employment trends and salary information.

The Office of Career Placement and Internship Services, phone 439-4441, and the Counseling Center, phone 439-4352, are located on the third floor of the D. P. Culp University Center. Cooperative Education and Internship is located in the ARC, second floor, Culp Center (439-5388).

**Clinics** — See Student Health Services.

**Commuting Student Services** — The Center for Adult Programs and Commuting Student Services provides specialized student services especially important to the commuting student. These services include transit information, loan of battery cables, and off-campus housing information. An information “HotLine” (439-5641) is provided for university bad weather advisories. These services are offered in the Center for Adult Programs and Commuting Student Services which is located in the D.P. Culp University Center.

**Computer Labs** — The largest open-access computer lab in the Tennessee Board of Regents System is located on the first level of the Culp University Center next to the post office. Students enrolled at ETSU with a valid ID may use the lab which features 81 IBM/Compatible and six Macintosh PCs. The needs of students with disabilities are met with two computers specially equipped with enlarged monitors, adjustable workstations, speech processing, and optional reader.

WordPerfect, Quattro Pro, SPSS, SAS, and Power Point are some of the programs available in the lab. Students can also access the Internet and use electronic mail.

The lab is open from 8 a.m. to 2 a.m. Monday through Thursday, 8 a.m. to midnight Friday, noon to midnight Saturday, and noon to 2 a.m. Sunday.

Five labs house 160 IBM PCs or compatibles and 30 Macintosh microcomputers. A growing software library is available in each lab from a server attached to the campus local area network. When not in use as classrooms, computer labs are available for walk-in use by any registered student. The microlabs are staffed by microlab monitors (student workers) at all times. They are supervised by a microlab manager. These monitors help users with common problems and keep the labs neat and secure. They are not tutors.

Software presently available for use in 105 Gilbreath, 124 Sam Wilson, and the Culp Center lab: WordPerfect 6.1, Quattro Pro, SPSSX-PC, SAS-PC, Turbo C, C++, Turbo Pascal, Derive, Lotus 123, and Minitab.

Software presently available for use in the Mac lab in 419 Warf-Pickel: Word, Excel, PageMaker, Freehand, Photoshop, SPSS.

E-mail and Internet access is available to all students from the microlabs.

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

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

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

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

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

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

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

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

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

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

**East Tennessee State University retains the right to inspect individual accounts and files stored on any system owned, maintained and/or leased by said university. While no prior authorization by individual**

**users is required to inspect those files and accounts, the user is, by virtue of accepting the account offered by ETSU and "logging" on to its computing equipment, granting to the university prior unrestricted permission, subject to university policy, to review, examine and/or otherwise view, by any method at the sole discretion of the university and without any additional advance notice to said user, any account and/or file stored on university computer resources.**

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

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

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

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

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

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

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

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

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

**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 selected credit courses either at the workplace or in local communities. Four bachelor's degree programs are housed in this division: Bachelor of General Studies, Bachelor of Applied Science, Bachelor of Science in Interdisciplinary Studies, and Bachelor of Science in Professional Studies. The last two are part of the TBR regents online degree program and may be obtained entirely online if the student desires. All four degree programs cater to adults who began a degree sometime in the past, but were not able to complete it. 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, Greeneville, 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 national or regionally known noncredit programs and can custom design a program for those who have a need. The Tennessee Institute for Economic Development is a partnership venture between the Tennessee Board of Regents and the University of Tennessee which is administered by ETSU, with its primary mission targeted at basic economic development information for elected officials and professionals. The federally supported TRIO Programs provide a great opportunity for low income, first generation college students, college-bound students, or veterans.

**Cooperative Education** — Cooperative education provides an opportunity to earn academic credit in most disciplines for carefully planned and supervised work experience in business, industry, health, and governmental agencies. Students alternate between periods of study on campus and work assignments with a cooperative employer. Information about the cooperative education program can be obtained through the Office of Career Placement and Internship Services located in the ARC Center, 2<sup>nd</sup> level, D.P. Culp University Center; phone 439-5388.

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

**Developmental Studies** — The Division of Developmental Studies was created by East Tennessee State University to address the basic skills deficiencies common among a number of entering college students.

Advising  
Assessment and Placement  
Credit Hour Computation  
Drop/Add Policy  
Learning Center  
Program Completion  
Reinstatement Policies

**Advising** — an essential component of Developmental Studies involves regularly scheduled individual and/or group counseling sessions. The services provided include assistance with personal adjustment to college life, goal formation, career orientation, academic advising, and support counseling. Referrals for more involved counseling or psychological and career testing can be made to the Counseling Center.

**Assessment and Placement** — ACT or SAT scores less than three years old will be used to determine if assessment is required. For students with an ACT composite score of less than 19 (or comparable SAT) the Academic Assessment Placement Program (AAPP) in reading is required. If the ACT subscores (comparable SAT) in English and math are less than 19, the AAPP is required in the appropriate area(s). For students 21 years of age and older, who do not have ACT or SAT scores, the entire assessment battery is required. Following a review of transfer credit, it may be determined that a transfer student must complete the AAPP test battery before registration for classes.

**Credit Hour Computation** — Credit hours earned in Developmental Studies courses are in addition to the minimum number of hours required for graduation within 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 minimum average requirements for graduation.

**Drop/Add Policy** — Developmental Studies courses cannot be dropped without written permission of the director.

**Learning Center** — The Learning Center incorporates the Developmental Studies computer lab and the Mathematics Lab in Warf-Pickel 307-309. In cooperation with the Mathematics Department, the Learning Center offers both computer-assisted and individual tutoring by student peers, graduate assistants, and faculty members. The Learning Center is maintained as an open-access resource for the entire ETSU student body. Hours of operation vary by semester.

**Program Completion** — Students officially exit the program upon successful completion of each course sequence in which they have been placed with a minimal grade of "C".

**Disability Services** — East Tennessee State University is committed to providing opportunities and accommodations to all academically qualified students with disabilities. Services include arrangements for access, classroom accommodations, and provision of a variety of support services to promote an equal opportunity in the campus environment. It is the responsibility of the student to provide documentation of the disability, seek available assistance from Disability Services and to make his/her needs known. Students who need accommodations based on a disability must contact Disability Services, located on the lower level, D.P. Culp University Center, J. L. Seehorn, Jr. Road, phone 439-8346 or 439-8370 TDD.

**Early Childhood Learning and Development** — The Center for Early Childhood Learning and Development operates programs to serve the needs of young children. Child care services for families are offered by both programs. They are licensed by the Tennessee Department of Human Services and accredited by the National Academy of Early Childhood Programs. The Child Study Center is located at 2101 Signal Drive, approximately one mile from the main ETSU campus. Children ages 3 months through 5 years are served in a full-year, full-day early childhood program. Enrollment is on a limited basis. Information for full-time child care can be obtained by calling 439-4888 or 439-4887.

Little Buccaneers Student Child Care Center is a child care program located on campus in Warf-Pickel Hall which is specifically designed to

meet the needs of ETSU students. ETSU students can enroll their children ages 3 months to 8 years for blocks of time each semester that will accommodate their child care needs while attending classes and during study times. This program is supported by the Student Activities Allocation Committee and ETSU. Information for the part-time child care program can be obtained by calling 439-7549 or 439-4198.

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

**Financial Aid** — A comprehensive financial aid program has been developed to assist eligible students. Counselors are available from 8 a.m.-4:30 p.m. Monday through Friday. This office is located in Burgin E. Dossett Hall, phone 439-4300 or 800-704-ETSU. Additional details on financial aid are presented elsewhere in this catalog and on the web at [www.etsu.edu/finaid/financial.htm](http://www.etsu.edu/finaid/financial.htm)

**Games Room** — The games room is located in the D. P. Culp University Center and offers a variety of amusements including video games, pinball, pool, table tennis, and “foosball.”

**ID Card and Campus Debit Card (ID BUCS)** — All students must obtain an official East Tennessee State University ID Card in order to have full access to all university facilities and services. Your ID card not only provides student identification, but will also allow access to Sherrod Library services, door access to residence halls, Mini-Dome, CPA, AVL, computer labs, and parking lot gates. Your ID card is also used to access meal plans, to obtain tickets to athletic events, and to participate in student voting.

Students may also choose to create a debit account called ID BUCS. You may use ID BUCS in the Campus Bookstore, all food service locations, laundry facilities in residence halls, Craft Shop, Student Health Clinic, University Press Convenience Center, Sherrod Library, Bursar’s Office, and Pepsi, Coke, and snack machines located all over campus. ID cards will be issued during new student orientations or anytime after registering for classes. Please come by the ID Services Office on the second level of the D.P. Culp Center for additional information and a brochure detailing all of the terms and conditions and services.

ID Services Office, P.O. Box 70611, Johnson City, TN 37614, phone: 423-439-8316. Regular office hours: Monday through Thursday, 8 a.m. - 7 p.m., Friday, 8 a.m. - 4:30 p.m.

**Immunization Requirements** — Students entering college are required by law, to have proof of two doses of MMR vaccine. Documentation must be on file with Student Health Services before you can register for the following semester.

The first dose must have been given on or after the first birthday. MMR vaccinations must be given at least 30 days apart. Students born prior to 1957 are exempt from this requirement.

Student Health is located in room 55 Lamb Hall. All registered ETSU students are eligible for health care services.

**Information Areas** — For information by phone call 0 if on campus and 439-4112 if off campus. Information via the Internet is available at [www.etsu.edu](http://www.etsu.edu)

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

The Center for Student Life and Leadership located in the D.P. Culp Center provides information on student organizations and campus programs. Hours are 8 a.m. - 4:30 p.m. Monday - Friday. Phone 439-5675.

The Center for Adult Programs and Commuting Student Services, located in the ARC Center on the 2nd level of the Culp University Center, has a supply of most printed material available on campus. Staff

members are willing to locate the information desired, if it is not already available in the office. Hours are 8 a.m.-4:30 p.m. Monday-Friday. Phone 0 if on campus and 439-4112 if off campus.

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

**International Programs** — The Office of International Programs, located temporarily on the first floor of Yoakley Hall, serves the international community of visiting international students and scholars from more than 60 countries who attend or visit ETSU. Programming, advising, immigration paperwork, community outreach, field trips, Friendship Family Program, and international festivals are among the many services offered by the Office.

The office coordinates both the National Student Exchange (NSE) and the International Student Exchange Programs (ISEP), which provide ETSU exchange opportunities at a cost comparable to that of ETSU.

**Leadership Education** — Leadership education is a key part of the ETSU experience. Students learn leadership to be more effective in everyday living as well as to excel in their profession and position in the community. It is strongly encouraged that students seek and accept leadership positions in student organizations, service activities, campus governance, university committees, orientation and Preview, peer advisement, and academic departments. The opportunities will build your skills as well as your network of references. Learning leadership is for everyone, not just a select few.

The Center for Student Life and Leadership provides numerous ways for students to become more proficient in their leadership abilities. Students may utilize many of the following offerings; the Munch and Learn series, Leadership Forum, Leadership Transcript, Leadership House (a living learning environment), Leadership Studies and Inter-disciplinary minor.

Contact Student Life and Leadership, phone 439-5675, for more information.

**Libraries** — The new Sherrod Library, containing the major learning resources that support the university’s program of teaching and research, opened in 1999. Seventy-plus public access computer stations and laptop connection areas are distributed throughout this state-of-the-art building which has more than 1,800 seats. The collections include one-half million volumes, over one million microforms, over 2,000 periodical subscriptions, more than 350,000 federal and state documents and maps, audiovisual media, and the state depository collection of K-12 state-adopted textbooks. All of the materials in the collections can be found in the VOYAGER catalog, which is accessible from any Internet-connected computer. There are 25 laptops available for in-library loan to students. Copy machines and printers are located on each floor. A study room open 24 hours a day is accessible with a student ID.

The ETSU/UT at Kingsport Library has a collection of over 25,000 volumes and maintains subscriptions to over 100 periodicals.

The Medical Library is located in Building 4 of the Veterans Affairs Medical Center. The library has a seating capacity of 213 and houses a collection of over 96,000 books, journals, computer databases and media which support the academic, clinical, and research programs of the College of Medicine.

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



Appalachian Studies and Services and has been accredited by the American Association of Museums since 1972.

The Reece Museum serves as a resource to the university's students and faculty, as well as to the larger community. Reece Museum has three galleries which feature temporary exhibits of art and artifacts, and three galleries which house permanent exhibits consisting of musical instruments, items used during frontier settlement of the region, memorabilia from Congressman B. Carroll Reece, and selected prints from the permanent collection. Services and programs include guided tours of museum exhibits, out-of-town "Discovery Tours," workshops, lectures and other scholarly presentations, musical and other performances, demonstrations, and exhibit openings and receptions. Specialized instruction and programs are available upon request. All events and admission are free to the public. Office hours are weekdays from 8 a.m. until 4:30 p.m. Gallery hours are 9 a.m. until 4 p.m., Monday-Wednesday and Friday, 9 a.m. until 7 p.m. on Thursday, and 1-4 p.m. on Saturday and Sunday.

**National and International Exchange Programs** — The National Student Exchange Program, a consortium of 170 schools to which ETSU belongs, offers ETSU students the opportunity to study up to one year at one of the member campuses, at a comparable cost to that of attending ETSU. By participating in this domestic exchange program, students can explore new academic avenues to their area of study, explore job markets and graduate schools, and experience personal growth.

ETSU students who wish to study overseas, for a semester or a year, may apply to study at one of our 18 exchange universities or at one of the 100+ institutions, located in more than 33 countries, offered under the International Student Exchange Program (ISEP).

Generally students may enroll in study abroad programs beginning in their sophomore year. GPA requirements vary but are frequently between 2.5 to 3.5. Some programs offer courses in English, while others in the language of the host country. Acceptance to programs with limited space is subject to competition. Interested students should allow a year of planning which may include the application process, language proficiency tests, financial aid issues, approval for transfer of credits, interviews, etc.

For more information, please visit the Office of International Programs web site at [www.etsu.edu/intprograms/](http://www.etsu.edu/intprograms/) or by visiting the Study Abroad Library, 104 Yoakley Hall.

**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 439-4441.

**Pre-Health Reinforcement and Enrichment Program** — The Pre-Health Reinforcement and Enrichment Program (PREP) is an umbrella for a variety of health career related summer programs at ETSU James H. Quillen College of Medicine designed to help high school and college students prepare for a future in the health professions. PREP focuses on enriching academic training, developing problem-solving skills, and assisting students regarding various health careers through an array of programs structured to meet the needs of students at their particular level of academic preparation. PREP provides a wide-range of benefits (such as cash stipends, on-campus housing, travel reimbursement, learning materials, and field trips) depending upon the specific program in which a student participates.

Detailed information is available by contacting the Program Coordinator in the College of Medicine, Office of Student Affairs, room 234, College of Medicine Building, telephone 423/439-5655 or by browsing the web page address: <http://faculty.etsu.edu/gaskins/prep/index.html>.

**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 numbers are 439-4480 for police services and 439-6900 for administrative services.

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/UT 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, TN. 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.

ETSU at Greeneville is located in the Greeneville-Greene County Center for Higher Education building, 215 North College Street in downtown Greeneville. Selected undergraduate and graduate courses are available during the day and evening through an articulation agreement between ETSU and Walters State Community College. The telephone number is 423/787-7300.

The Department of Health Related Professions, located at the Nave Center in Elizabethton, is a multidisciplinary department offering courses of study leading to a Bachelor of Science degree in Allied Health with concentrations in Cardiopulmonary Science and Radiography. The telephone number is 423/547-4900.

**Reading Center** — The Reading Center, a service component of the Department of Curriculum and Instruction in the College of Education, has both training and service functions. Training functions of the center are: (1) to improve reading of college students and other adults; (2) to provide practicum experiences for university students; and (3) to train reading specialists and others interested in effective teaching of reading. Service functions of the center are: (1) to evaluate children with reading/learning disabilities; (2) to provide consultative and research services. The Reading Center is located in room 304 of Warf-Pickel Hall, phone 439-4298.

**Service-Learning** – Service-Learning is a teaching strategy that uses meaningful community service combined with guided reflection to enrich and enhance student learning. Located in the Center for Student Life and Leadership, lower level of the Culp Center, the Office of Service-Learning coordinates the Introduction to Service-Learning 3-credit class, helps establish service-learning opportunities in other academic courses, and manages the Leadership Transcript Program for Service-Learning students. The Tennessee Consortium for Service-Learning in higher education is also headquartered in this office. For more information, call 439-8218 or 8219.

**Student Life and Leadership, Center for** — At the Center for Student Life and Leadership students excel in service and leadership both on campus and in the community. The center brings new and exciting learning opportunities for students through involvement in such programs and activities as student organization, Greek Life, service-learning, and leadership education.

The mission of the Center for Student Life 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 or by e-mail at [sllinfo@etsu.edu](mailto:sllinfo@etsu.edu).

**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 Office of Student Life and Leadership on the lower level of the D. P. Culp University Center, phone 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 room 55 of Lamb Hall. 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.

**Service Programs** — ETSU's commitment to service is evident through the campus mission statement and the numerous opportunities we provide students. Whether community-based and interdisciplinary education, service-learning, and/or co-curricular service opportunities, students are encouraged to expand their intellectual and social development. For more information, contact the Center for Student Life and Leadership at 439-5675 or [sllinfo@etsu.edu](mailto:sllinfo@etsu.edu).

**Study Abroad** — See International Programs.

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

Student Life and Leadership serves as the resource center for all

registered student organizations. We provide services and information, such as registration of organizations, assistance with event planning, maintenance of student activity calendar of events, and leadership training for student organizations.

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

**TRIO Program** — Student Support Services, a federally funded TRIO program provides tutoring, mentoring, and academic/career/ personal counseling. Services are available to students who meet the project's eligibility criteria. NEXUS is the project's special program designed to help freshman adjust to ETSU.

Inside Track is a university-funded tutoring program which provides one-to-one tutoring in general education courses. Supplemental Instruction, an academic assistance program with tutors who attend selected high-risk classes and conduct study sessions each week, is also provided. Online tutoring is available in selected math and science courses using Blackboard, which can be accessed using student username. For information regarding any of these services, contact Office of Student Support Services, 439-5396, upper level, D.P. Culp Center.

TRIO Outreach Programs (Educational Talent Search, Upward Bound, and Veterans Upward Bound) are federally funded programs which provide and enhance educational opportunities to low-income, potential first-generation college students. Educational Talent Search is designed to identify 600 qualified middle school and high school students with potential for education at the postsecondary level and provide information and encouragement to enroll in postsecondary educational programs. Upward Bound is designed to generate skills and motivation for 145 high school students to enroll in and graduate from postsecondary programs. Veterans Upward Bound is designed to generate skills and motivation for 120 eligible veterans to enroll in and graduate from postsecondary programs.

These TRIO Programs are located on the upper level of the D.P. Culp Center, phone 439-5619.

**Tutoring Services** — Reading Laboratory - Students may arrange to test their reading ability by appointment. Located in Warf-Pickel Hall (Education Building), room 304, phone 439-4298. The ETSU Writing and Communication Center offers free tutoring to all ETSU students. Tutors will assist with any type of writing or oral communication projects, and will work with students at any stage of the writing or speaking process. The Center is open Monday-Wednesday, 10 a.m.-3 p.m. Tutors are available on a walk-in basis or by appointment. The Writing and Communication Center is located in room 409 Warf-Pickel Hall, phone 439-8202.

Tutoring is available in general education core courses through Student Support Services and Inside Track. Individual tutoring on a one-to-one basis is available, and Supplemental Instruction, a group study program led by tutors who attend selected classes is also an offering. Online tutoring is available in selected math and science courses, using Blackboard. All tutoring is free and application for services can be made in the Student Support Services office, third floor, Culp Center, 439-5396.

**University Advisement Center** — The University Advisement Center provides high quality academic, career and personal counseling to those students who have not declared a specific major as well as to those students with officially declared majors, who seek to transfer to other departments or colleges. The Advisement Center's focus on all aspects of student life makes it possible to assist students in the accomplishments of academic success, enhancement of personal development goals, and effective management of the stresses related to academic life. The University Advisement Center seeks to complement ETSU's stated goal of providing an atmosphere of support and acceptance of its diverse

student body so that students may emerge as thoughtful and productive citizens.

The developmental advisement process is fully implemented in the University Advisement Center with timely, personal follow-up contacts made in a systematic manner throughout the semester. Through personalized advisement and guidance, the staff assists students in identifying their personal and academic strengths and interests, in order to explore courses related to degree programs and career interests. The University Advisement Center is located in the ARC Center on the second level of the Culp University Center, phone 439-5344.

**University Center, D. P. Culp** — The D. P. Culp University Center is one of the most modern student centers in the nation. 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, Student Life and Leadership, Center for Adult Programs and Services, Campus ID System Offices, Advisement and Career Resources Center, and the University Center.

The Games Room on the second floor has billiard tables, table tennis, table soccer, and a variety of electronic games. The Craft Shop on the lower level offers both the equipment and instruction to allow students to create many types of craft projects. Walk-in activities are encouraged in addition to scheduled short courses.

**University Press** — The University Press is located on the lower level of Sam Wilson Hall. The Press produces university catalogs, books, booklets, brochures, fliers, posters, and newsletters. It also provides comprehensive graphic services for faculty, administration, and students. In addition, the University Press Convenience Center is available in the D.P. Culp University Center, outside the bookstore. The center is set up to provide copies, faxes, spiral binding, and transparencies for students, faculty, and staff. The booth is open Monday through Friday from 8 a.m. until 4:30 p.m.

**University Productions** — Comprised of students, University Productions plans major campus events such as concerts, movies, lectures, comedy shows, and Homecoming. Students can be involved with University Production 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 Student Life and Leadership, D.P. Culp University Center, lower level, phone 439-6828 or e-mail univprod@etsu.edu.

**Veterans Affairs** — Coordinates the administration and delivery of educational benefit programs of the United States Department of Veterans Affairs (USDVA) to all veterans and certain dependents of disabled veterans. Currently, the entitlement programs include:

Montgomery GI Bill-Active Duty Educational Assistance Program (Chapter 30, Title 38 *United States Code*)

Montgomery GI Bill-Selected Reserve Educational Assistance Program (Chapter 1606, Title 10 *United States Code*)

Dependents' Educational Assistance Program (Chapter 35, Title 38 *United States Code*)

Post-Vietnam Era Veterans' Educational Assistance Program (Chapter 32, Title 38 *United States Code*)

Other miscellaneous veterans' educational benefits programs

including, but not limited to, the Educational Assistance Pilot Program (Section 903, Public Law 96-342)

Veterans' Work-Study Allowance Program

Veterans' Tutorial Assistance Program

Veterans Affairs can provide information, forms and assist in the application for any of the above educational benefit programs. Students who desire benefits must contact Veterans Affairs each semester to request their enrollments be certified to the USDVA Atlanta Regional Processing Office (RPO). Students must keep Veterans Affairs informed of all changes to reported enrollments.

Information on nearly all veteran educational assistance benefit programs is available from the USDVA Veterans Benefits Administration Education Service on the Internet at [www.GIBILL.va.gov](http://www.GIBILL.va.gov). Inquiries about students' educational assistance benefits payments and other general information may be made directly to the USDVA Atlanta RPO toll-free at 1.888.GI.BILL.1 (1.888.442.4551) or electronically at <atlrpo@vba.va.gov>. The Atlanta RPO's mailing address is: Regional Processing Office, United States Department of Veterans Affairs, Post Office Box 100022, Decatur, Georgia 30031-7022.

New and transfer student veterans are required to provide a photocopy of "Member Copy 4" of Department of Defense (DD) Form 214, *Certificate of Release or Discharge from Active Duty*, a copy of DD Form 2366, *Montgomery GI Bill Act of 1984* (GI Bill election form), if available, or other veterans educational assistance benefit entitlement/eligibility documents, including, but not limited to, college fund or "kicker" contracts if any. Reservists and members of the National Guard need to provide DD Form 2384, *Selected Reserve Educational Assistance Program Notice of Basic Eligibility*. Dependents of totally and permanently service-connected disabled (or deceased) veterans applying for educational assistance benefits should provide a copy of the disabled veteran's Rating Decision or a copy of their USDVA Certificate of Eligibility, if received from a previously submitted application.

Veterans in an undergraduate standing are required to provide any available official uniformed services' evaluations of education, training and experience that have been prepared in accordance with the American Council on Education's *Guide to the Evaluation of Educational Experiences in the Armed Services* and/or *National Guide to Educational Credit for Training* ("ACE Guides"). For example, veterans with Army education and training are required to submit an "Army - American Council on Education Registry Transcript" (AARTS). Veterans with Navy and/or Marine Corps education and training and separated after October 1, 1999, are required to submit a "Sailors-Marine Corps-American Council on Education Registry Transcript" (SMART). Veterans with Air Force education and training are required to submit a Community College of the Air Force Transcript. Former members of the Coast Guard are required to submit a Coast Guard Institute Education Transcript. A DD Form 2586, *Verification of Military Education and Training* (VMET) should also be provided, if available. Veterans Affairs can provide the forms or specific information for obtaining the above documents. Veterans with nonresident (correspondence) uniformed services education and training should obtain separate official transcripts, if available, for academic credit award consideration. Academic credit is awarded for formal education and training only.

Academic credit voided under "Academic Fresh Start" is not approved for veterans educational benefits. State law provides for deferments of payment of tuition and fees for students receiving any educational benefits of the USDVA. Active service members, reservists, or National Guard members desiring to use tuition assistance should coordinate their application for such benefits with Veterans Affairs.

Veterans Work-Study Allowance Program opportunities are available locally to eligible students. Students must have remaining educational benefits and be enrolled at least three-quarter time during the semester to participate. Interested students should contact or submit an *Application*

for *Work-Study Allowance*, VA Form 22-8691, to Human Resources (05), [Building 20], James H. Quillen Veterans Affairs Medical Center, Post Office Box 4000, Mountain Home, Tennessee 37684-4000 or by telephone at 423.926.1171 extension 7181.

Veterans Affairs also assists in the coordination and supervision of educational programs approved under the USDVA Vocational Rehabilitation & Employment Program (Chapter 31, Title 38 *United States Code*). Questions pertaining to program eligibility or out-of-area transfers to the university may be directed to J. Douglas Murdock, Case Manager, <vrctdmurd@vba.va.gov>, USDVA Vocational Rehabilitation & Employment, 412 North Cedar Bluff Road, Suite 416, Knoxville, Tennessee 37923-3619. The telephone number is 865.545.4732 and for telefacsimile communications, 865.545.4736.

Veterans Affairs is located within the Office of the Registrar in Room 101A & B Burgin E. Dossett Hall. Office hours are from 8 a.m. to 4:30 p.m. weekdays. The office telephone is 423.439.6819 and electronic mail address is <va@etsu.edu>. The office maintains a web site at [www.etsu.edu/va/](http://www.etsu.edu/va/).

**Veterans Upward Bound Program** — The Veterans Upward Bound Project at East Tennessee State University is designed to help low-income, first-generation veterans generate ability and motivation necessary for success in education beyond entry into postsecondary school. Academic classes are offered that encourage students without a high school diploma to attain the goal of passing the GED, thus allowing them to make application to postsecondary school. Precollege academic classes prepare students to overcome inadequate basic skill knowledge that precludes and hinders learning.

Counseling, assessment and seminars are designed to enhance a participant's knowledge in financial aid, time management, and academic strengths and weaknesses. Time spent in career exploration, field trips, cultural enrichment and social interaction increases ability to focus on what is important when entering a postsecondary school. Free academic classes and services are offered at four sites: Johnson City campus, ETSU/UT at Kingsport, ETSU at Bristol, and Tennessee Employment Office in Mountain City, Tenn.

The Veterans Upward Bound Project is one of three federal grants known as Trio Programs. The Trio Programs office is located on the third floor of the D.P. Culp Center. For more information, call (423) 439-5310.

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

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

For more information or to become involved in Volunteer ETSU or any of its numerous projects, call 439-4254 or e-mail at [vetsu@etsu.edu](mailto:vetsu@etsu.edu). Volunteer ETSU is located inside the Center for Student Life 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 economical 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; and 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; National Residence Hall Honorary; Residence Hall Judicial Board; Alliance for Safety and Protection; 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 residence halls have rooms furnished with twin-size beds; desk; chairs; closets; mini-blinds; and telephone and cable TV hookup. Each hall has carpeted hallways for noise reduction; laundry; kitchen and vending facilities; and adjacent parking. Microfridges (combination microwave and refrigerator) are available to rent or students may secure their own. All rooms/apartments are wired for data access. Smoking is prohibited in all campus buildings, including the residence halls and apartments. Private rooms/apartments are available on a first-come, first-served basis.

Trained residence hall staff is available in each hall to assist with the total operation of the hall; enforces rules and regulations; provides programs and activities; advises, counsels and refers students; assists in emergencies; and other assigned duties. The university has adopted 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 \$100 deposit. Rent, which includes water, telephone (except for long-distance calls), data access, and cable TV hookup, are payable by the month, along with the electric bill.

**Buccaneer Ridge Apartments** — Sophomores and above enjoy the new 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 Office of Housing and Residence Life. Early application, preferably before June 1, for fall semester and December 1 for spring semester is encouraged. Assignments for fall semester begin in April and mid-December for spring.

A completed application and a \$75/100 reservation/damage 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 "Expenses" in the section entitled "Enrolling at ETSU."

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

P.O. Box 70723  
East Tennessee State University  
Johnson City, TN 37614-1710  
Telephone (423) 439-4446  
Fax: (423) 439-4690  
email: [housing@etsu.edu](mailto:housing@etsu.edu)

## Organizations and Activities

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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 Center for Student Life and Leadership, phone 439-5675 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 Student Life and Leadership, phone 439-5675 for more information.

### Academic Clubs

Advertising Club  
 American Marketing Association  
 American Medical Student Association  
 Art Students League  
 Association for Computing Machinery  
 Association of Graduate English Students  
 Association of Student Nurses  
 Biomedical Sciences Graduate Students Association  
 Chinese Student and Scholarship Association  
 Clinical Lab Science  
 Criminal Justice Graduate Society  
 Criminal Justice Undergraduate Society  
 Dental Assistants Club  
 Dental Lab Club  
 Der Deutsche Club - German Club  
 E.D.G.E. Club  
 Entrepreneur's Club  
 Graduate Students Association of Psychology  
 History Society  
 Masters of Public Health  
 Mathematical Association of America  
 Percussion Society  
 Phi Mu Alpha Sinfonia — Music  
 Philosophy Club  
 Pre-Law Society  
 Psychology Club  
 Public and City Management Association of Graduate Students  
 Public Relations Student Society of America  
 Respiratory Therapy Association  
 Society for Human Resources Management  
 Society of Professional Journalists  
 Sport Management Club  
 Student Affiliates of the American Chemical Society  
 Student American Dental Hygienists Association  
 Student Association for Young Children  
 Student Ceramic Association  
 Student Dietetic Association  
 Student National Medical Association  
 Student Photography Association

Student Radiographer  
 Student Sculpture Society  
 Student Social Workers Association  
 Student Tennessee Education Association  
 TaleTellers

### Honor Societies

Alpha Lambda Delta  
 Alpha Phi Sigma  
 Alpha Psi Omega  
 Alpha Sigma Iota  
 Alpha Sigma Lambda  
 Beta Alpha Psi — Business  
 Beta Beta Beta — Biological Sciences  
 Delta Omicron  
 Delta Sigma Pi - Business  
 Epsilon Pi Tau — Technology  
 Eta Sigma Gamma — Public Education  
 Golden Key International Honor Society  
 Kappa Delta Pi - Education  
 Kappa Omicron Nu - Economics  
 National Residence Hall Honorary  
 Omicron Delta Kappa — Campus Leadership  
 Order of Omega  
 Phi Alpha - Social Sciences  
 Phi Alpha Theta - History  
 Phi Rho Sigma - Medicine  
 Pi Delta Phi Honor Society - French  
 Pi Gamma Mu  
 Psi Chi — Psychology

### Campus Ministry Opportunities

Baptist Student Union  
 Campus Crusade for Christ  
 Catholic Campus Ministries  
 Christian Medical and Dental Association  
 Christian Student Fellowship  
 Fellowship of Christian Athletes  
 Impact Christian Movement  
 Latter Day Saints Student Association  
 Presbyterian Student Fellowship  
 Reformed University Fellowship  
 Wesley Foundation  
 11:58 Ministries  
 Young Life - QUEST

### Social Fraternities and Sororities

#### Fraternities

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

**Sororities**

Alpha Delta Pi  
 Alpha Kappa Alpha  
 Alpha Xi Delta  
 Delta Sigma Theta  
 Kappa Delta  
 Sigma Kappa  
 Phi Sigma Beta - Local Chapter  
 Zeta Phi Beta

**Community Service**

Alpha Phi Omega  
 Best Buddies  
 Rotaract  
 Volunteer ETSU

**Special Interest Groups**

Buccaneer Outdoor Recreation Club  
 Cycling Club  
 Gamma  
 Gospel Ensemble  
 Lambda Society  
 Lambda Delta Sigma  
 Mentoring Women in Computer Science  
 Sierra Student Coalition  
 University Amateur Radio Club

**University Sponsored**

Admissions Ambassadors  
 Black Affairs Association  
 International Student Organization  
 OASIS - (Once Again Students in School)  
 Orientation Leaders Association  
 President's Pride  
 University Productions

**Governance**

Graduate and Professional Student Association  
 Honors Program Student Council  
 Inter-Fraternity Council  
 Medical Student Government Association  
 National Pan-Hellenic Council  
 National Panhellenic Council  
 Residence Hall Association and 10 Hall Councils  
 Student Government Association

**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 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 operated with student fee dollars. Indoor spaces include: basketball/soccer/volleyball 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 projects 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 include 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 white water 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 439-4266 or come by the department office in the new Center for Physical Activity.

### **Intercollegiate Athletics**

The university is a member of the Southern 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 football, men's and women's basketball, baseball, men's and women's golf, men's and women's cross country, indoor and outdoor track, men's and women's tennis, women's volleyball, women's soccer, and softball all represent the university in intercollegiate competition. The department also sponsors a Cheerleading team. The Department of Intercollegiate Athletics is located in room 325W of Memorial Center, phone 439-4343 or see [www.etsubucs.com](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 in 5xx7 courses may expect that the course will include undergraduate students taking the course under a 4xx7 number. Graduate students shall be required to do specified work over and above that required of undergraduate students in these courses. All courses 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 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, Minor

A "major" is the curriculum of study a student wishes to follow in pursuit of a degree. The minimum number of credits for a major is 24 but the total varies according to the area. A "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 must consult the appropriate academic section of this catalog to determine the major and minor requirements for each specific area of study. Close consultation with an advisor in the subject of the chosen major is considered necessary and prudent in order to select the appropriate courses leading to completion of a degree.

### Declaring a Major

Undergraduate students must declare a major no later than the first term after completion of 60 semester credit hours. Transfer students who transfer in excess of 60 semester credit hours must declare a major by the end of their first semester at East Tennessee State University.

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

**Grade Points** — Grade points are numerical values assigned to letter grades in order to provide a basis for quantitative determination of grade (quality) point averages. The four-point system is used. A plus/minus grading system went into effect with grades processed in Fall 1992.

Unless qualified with an exact grade point value, a 'C-' is included when "a grade of 'C' or better" is stipulated.

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 Grade Point Average (GPA)

GPA is computed as follows:

- Step 1. Grade Points (see above) x Course Credit Hour = Grade Points for Course
- Step 2. Sum the Grade Points for all Graded Courses = Total Grade Points
- Step 3. Total Grade Points divided by Credit Hours Attempted (quality hours) = G.P.A.

Example:

	Grade	Credit Hours	x	Grade Points	=	Grade Points for Course
ENGL 1010	A	3		4		12
BIOL 1040	B	4		3		12
HIST 2010	C	3		2		6
MATH 1710	D	3		1		3
PHED 1140	F	1		0		0
<b>Total</b>		<b>14</b>				<b>33</b>

$$33 \text{ divided by } 14 = 2.35$$

### Grades that do not influence Grade Point Average:

**P— Pass.** No grade points; degree credit hours. (See Undergraduate Pass/Fail Policy.)

**Cr — Credit.** No grade points; degree credit hours. Used to record credit established by nontraditional means. (See Advanced Standing.)

**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, outside reading, etc. (See section on Incomplete Grades.)

**Au — Audit.** (See section on Noncredit-Audit.)

**W—Withdrawal.** (See Drop-Add and Withdrawal Policies.)

**WF—Withdrawal Failing.** (See Drop/Add and Withdrawal Policies.)

### 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. A copy of the **grade appeal process** for students may be obtained from the following offices: the school or college deans, the Vice Provost for Academic Affairs, the Vice President for Academic Affairs, the Vice President for Student Affairs, or the Vice President for Health Affairs. The grade appeal process is outlined in *Spectrum* (ETSU Student Handbook) and the Faculty Handbook.

**Please Note:** A deadline exists for filing a grade appeal. The student should begin the process within 21 days after the beginning of the next term, excluding summer school.



### Grade Report Concerns

Grades are provided to all registered students via *GoldLink-Touchtone* or *GoldLink-OnLine*, the university's interactive voice response system and web system. Using a touchtone phone or computer with Internet access, students access their grades once they have been posted and may secure a printed copy by exercising the grade print option at the end of hearing grades on *GoldLink-Touchtone* or by clicking on Request Grade Mailer on the grade viewing screen in *GoldLink-OnLine*. The option to request a grade mailer is limited to approximately two weeks after the end of the term. Academic departments are required to retain grade documentation for a period of one year. Specific student concerns regarding academic records, other than the Grade Appeal process described above, will only be addressed within one academic year from the date of posting of grades for the term in question.

### Undergraduate Pass/Fail Policy

The purpose of this policy is to allow qualified undergraduate students to explore, in a limited manner, their interests and ability in courses of study that are unfamiliar to them and to receive a pass or fail grade instead of a regular letter grade. This purpose must not impair the need to maintain qualitative and rigorous academic standards of the university. Accordingly, the policy will be regularly evaluated for continuation by the Office of the Provost and Vice President for Academic Affairs.

The policy regulates the qualifications of undergraduate students applying for the P/F grade option, the limitations on the types of courses taken for P/F grades, limitations of P/F credit hours earned, the registration process, and the grading basis limitations. In addition it places academic advising in a critical role in approving requests for the P/F grading option.

The policy applies only to the limited P/F grading option available to individual students and is distinct from any use of non-letter grades for an entire course at the university. Grading in such courses shall not apply to the regulations cited here.

#### 1. Student Qualification.

For the undergraduate student pursuing a degree, a 2.5 overall GPA is required. All ETSU credits plus any credits earned elsewhere and accepted by ETSU for transfer to a university program are counted.

For the undergraduate student not pursuing a degree there is no GPA requirement; however, in the event of a subsequent program change to pursue a degree, the GPA requirement becomes effective.

#### 2. Courses Excluded and Included.

For the undergraduate student pursuing a degree, all General Education Core courses are excluded; that is, Writing, English 1010 and 1020; Using Mathematics, three to four credits; Using Information Technology, CSCI 1100; Science, eight credits; Heritage, nine credits; Arts and the Artistic Vision, three credits; Identity, Ethics and Social Response, three credits; Institutions and Society, six credits. Humanities Elective, three credits; Physical Education, two credits. Also excluded are courses in a student's major or minor. In the event that a subsequent program change places a completed P/F course in a student's major or minor, the student may petition the dean of the college or school in which the newly declared major or minor is offered to have the original letter grade earned substituted for the previously earned P/F grade.

For the undergraduate student not pursuing a degree, any course may be included to a maximum of 12 semester credit hours; however, all 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.

#### 3. Registration Process and Limitations.

For undergraduate students either pursuing a degree or not pursuing a degree, the P/F grading request must be made at the time of registration. Registration is for no more than one P/F course in a semester, and the registration for the P/F grade in a course must be approved by a student's assigned department or college advisor who must sign the drop/add form to certify review of qualifications and other applicable limitations.

#### 4. Grading Basis.

For both the undergraduate student pursuing a degree and the undergraduate student not pursuing a degree, the P/F grade option cannot be requested or approved for a class that is added after the first week of classes. In addition, a regular letter grade basis cannot be changed to P/F, nor can P/F grading basis be changed to regular letter grade basis after the first five days of classes 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 will be converted to P/F by the Office of the Registrar. P/F courses may be repeated for a regular letter grade at the student's own option.

#### 5. Credit Hour Regulations.

For the undergraduate student pursuing a degree, no more than 12 credit hours earned on a P/F basis at ETSU may count 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, and a failing grade (F) will be computed in a student's GPA. A pass grade (P) will not be computed in the GPA.

In the event that a subsequent program change places a completed P/F course in a student's major or minor, the student may petition the dean of the college or school in which the newly declared major or minor is offered to have the original letter grade that was earned substituted for the previously recorded P/F grade.

P/F grades awarded for departmental challenge exams or other advanced standing examinations are not counted as credit hours earned.

For the undergraduate student not pursuing a degree, any credit hours earned with P/F grades that are brought into a degree program at ETSU are subject to all regulations governing students pursuing a degree.

#### Credit by Correspondence or Extension

Credit earned by correspondence or extension from an institution that is regionally accredited may be accepted toward the completion of a four-year senior college curriculum, provided that the total hours earned by correspondence and extension or a combination of the two, may not exceed one-fourth of the hours required for a 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)**

#### Graduate Non-Degree: (SPG)

A student who holds a bachelor's or higher degree, who is not working toward a degree, and who is not a postdoctoral student, and who are enrolled in graduate courses.

#### Master's Candidate (Graduate Student): (MS)

A student who has been formally admitted to graduate school for the purpose of pursuing a master's degree.

**Undergraduate Special Student: (SPU)**

A student who is not working toward a certificate or degree and who is enrolled in undergraduate courses.

**Doctoral Candidate, Early Stage: (DE)**

A student formally admitted to graduate study whose major academic endeavor consists of formal course work directed toward fulfilling requirements for a doctorate.

**Candidate for Specialist in Education: (SED)**

A student who has been formally admitted to graduate school for the purpose of pursuing a specialist degree.

**Doctoral Candidate, Late Stage: (DL)**

A student who has been advanced to candidacy for a doctoral degree, or one whose principal academic endeavor consists of independent study, research, or work toward completion of a dissertation.

**Postdoctoral Student: (PD)**

A student who holds a doctoral degree and who is pursuing a program of study or training for which a doctoral degree is requisite.

**Visiting Undergraduate: (SPU)**

An undergraduate student taking work to transfer to another school.

**Visiting Graduate: (SPG)**

A graduate student taking work to transfer to another school.

**Class Load****Fall and Spring Semesters****Standard Load**

In order for a student to anticipate graduating in the traditional four-year time frame, a course load of 16-17 hours is recommended. 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/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 deficiencies may be approved to enroll for up to 21 semester hours in order to complete graduation requirements during that semester.

Audit enrollment will be used in determining all class loads.

**Probationary Load**

Any student on academic probation at the time of registration may enroll for not 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 summer term is 17 hours, subject to the maximum for each session as follows:

**Pre-Summer**, three semester hours

**First five-week session**, seven semester hours

**Second five-week session**, seven semester 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, as stated above, require approval of the academic advisor, college/school dean, and the vice president of Academic Affairs (or designee).

**Class Attendance Policy****1. General Statement of 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. East Tennessee State University does not specify a fixed number of class absences as university-wide policy, but each department within the university has the right to set a maximum number of absences (including absences due to university activities and illnesses) permitted during an academic term. Departmental class absence policy is subject to approval by the dean of the school/college. At the beginning of the course each faculty member must provide a written statement governing attendance policy (including laboratory/clinical sessions where applicable) for the course so that all students may be fully informed of their attendance responsibilities, including penalties which may be imposed for failing to meet these responsibilities. If a student is not in attendance during the class meeting in which the class attendance policy is discussed, it is the student's responsibility to ascertain the policy in that class.

**2. Absences Occasioned by University-Sponsored Activities**

2.1 For the purpose of this policy university-sponsored activities include those activities sponsored either by a university department or by a student organization officially recognized by the university.

2.2 Absences occasioned by university-sponsored activities must be excused by all faculty members as long as the number of absences does not exceed the number prescribed in an established and previously announced departmental policy and the faculty member 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 faculty member in charge of the course of the upcoming absence. This information should be provided by transmitting a Class Absence Authorization form to the faculty member. Class Absence Authorization forms can be obtained from the office of the vice president for student affairs. However, it is not necessary to obtain permission for absences from the office of the vice president for student affairs, nor does the office inform the faculty member of the expected absences.

**3. 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 a 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 the faculty member from whose class he/she 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.

**4. Appeal of the Faculty Member's Decision.**

If the student has evidence that a faculty member has not excused an absence which should have been excused within the guidelines stated above, the student can appeal the decision of the faculty member to the chairperson of the department and/or dean of the college or school in which the course was offered.

### Minimum Size of Class

The size of classes, both graduate and undergraduate, will be in accordance with the prevailing regulations of the Tennessee Board of Regents.

### 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 course requirement such as a term paper, outside reading assignment, projects, or an examination. It also indicates that the student received consent from the instructor to complete the work for which an 'I' grade was given. The 'I' grade is not to be used to allow a student to do additional work to raise a deficient grade 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 that 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 cumulative record. Incomplete grades are not removed until the new grade is recorded in the Office of the Registrar.

### Noncredit (Audit)

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

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.

Persons 60 years of age or older who are domiciled in Tennessee may audit courses without payment of registration fees, if space in the classroom is available. Additional information is available from the Office of Admissions or the Office of the Registrar. Other unclassified part-time students may enroll for noncredit seminars by paying the fee designated for each semester.

Auditors may be administratively dropped for unsatisfactory class attendance by the instructor.

### Drop/Add Policy

#### 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. Developmental studies courses cannot be dropped without written permission of the director. Courses dropped during the

first four weeks will not appear on the student's permanent record. All drops after the end of the fourth week must be processed in person in the Record's Office. The drop function of *GoldLink-OnLine* and *GoldLink-Touchtone* is not available after the fourth week of each term. Students who drop a course after the fourth 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 with established term dates, this schedule is adjusted appropriately to fit the condensed time frames.)

After the eighth week, a student may not drop a course except where verifiable, extenuating circumstances can be demonstrated. A petition for a late drop may be presented by the student for consideration to the dean of the college or school in which the student is majoring as of the beginning of the semester. Verifiable extenuating circumstances must be reasons beyond the control of the student, such as illness or accidental injury. Poor performance in a class is not an extenuating circumstance. A student whose major is undecided must apply to the dean of the College of Arts and Sciences.

If approved by the dean, the student will receive a grade of 'W' (Withdrawal) or 'WF' (Withdrawn - Failing), as assigned by the instructor of the course. All approved petitions for late drops must be received in the Office of the Registrar no later than 4:30 p.m. two days before the end of classes for all academic terms. Under no circumstances will a student be permitted to drop a course after that time.

### Withdrawal Policy

Students withdrawing from the university — discontinuing matriculation in the university — during the first eight weeks of classes will receive a grade of 'W' in all courses. 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 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 time.

A student who does not withdraw by the official procedure will receive an 'F' for each course. (See the Schedule Bulletin for more details.)

### Student Proficiency in English

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

#### Deans List

In order to qualify for the Deans List at ETSU, a student must meet the following criteria for the term:

1. Undergraduate classification
2. No grade below 'C' in any course
3. Must pass a minimum of 12 credits (excluding audits, incompletes, repeats, pass/fail, and developmental studies courses)
4. Minimum GPA of 3.700 for the semester in applicable courses (recalculated if courses are excluded)

### Academic Probation and Retention Standards All Undergraduate Programs

Baccalaureate, Associate, and Certificate students who fail during any semester to attain a cumulative grade point average (GPA) at or above the level indicated below on the following table for the credit hours attempted will be placed on academic probation for the subsequent semester (including summer session) of their enrollment.

At the end of the next semester of enrollment, a student on academic probation who has failed to attain the cumulative GPA standard or a 2.0 GPA for that semester will be suspended. A student who attains a 2.0

GPA for that semester, but fails to meet the cumulative GPA standard, will remain on probation.

#### **Baccalaureate and Associate Programs**

Semester	Quality Hours Attempted	Required Cumulative GPA
0	- 29	1.4
29.1	- 45	1.7
45.1	- 59.9	1.9
60 +		2.0

#### **Certificate Programs**

Semester	Quality Hours Attempted	Required Cumulative GPA
0	- 15	1.4
15.1	- 30	1.7
30.1	- Above	2.0

At the end of the next semester of enrollment, a student on academic probation who has failed to attain either the cumulative GPA standard or a 2.0 GPA for that semester will be dismissed.

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

#### **Period of Suspension**

Students on probation who do not meet academic retention standards shall be suspended from the university for one semester. The summer session may not count as a term of suspension. On the second (or subsequent) suspension for failure to meet academic retention standards, the period of suspension is for two semesters or longer and requires that the appeal procedure for reinstatement be followed.

#### **Appeals for Readmission Following Suspension**

Where extenuating circumstances are established as primary factors relating to low grades, a student may petition to waive the period of suspension. This petition must describe the 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

1. the written petition,
2. a current academic transcript, and
3. any supporting documents,

a preliminary decision will be made as to whether there are satisfactory, extenuating circumstances to warrant a formal appeal hearing. If granted, the student will be notified of the time and place of the appeal hearing before representatives of the Office of Student Affairs and the dean's office of the student's major area of study. If the appeal hearing is declined, the student may contact the academic dean in the college in which the student is majoring 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 East Tennessee State University are found to be acceptable for transfer and if such credits are sufficient to remove the student from academic probation, the student may be readmitted as a transfer student by the director of the Office of Admissions.

#### **The 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

- Associate of Applied Science (A.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 Environmental Health (B.S.E.H.)
- Bachelor of Science in Medical Technology (B.S.M.T.)
- 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 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 Music Education (M.Mu.Ed.)
- Master of Physical Therapy (M.P.T.)
- 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.)
- Education Specialist (Ed.S.)
- Doctor of Education (Ed.D.)
- Doctor of Medicine (M.D.)
- Doctor of Philosophy (Ph.D.)

#### Associate 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 taken at East Tennessee State University.\*
  - d. All courses in the major including transferred credit.

\*Grades in all courses taken in the major departments are reflected in the grade point average for the major.

2. Students must complete a minimum of 60 semester hours of credit (exclusive of courses designed as not applicable toward the associate degree) including the minimum general education requirements for associate degree and a major. The major must be approved by the chair of the department concerned.
3. Transfer students must complete enough work in residence at ETSU in the major to satisfy the department chair that the student is qualified in the major field. 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, including the last full semester. This shall be a minimum of 24 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. Students must have demonstrated proficiency in written and spoken English.
6. Students must file an Intention to Graduate form with the Office of the Registrar, Graduation Section, no later than the beginning of the semester preceding the semester of graduation. The deadline for

this filing is included in the academic calendar and the schedule of classes. It is the responsibility of the student to ensure that this deadline is met. No diploma will be issued to students with an outstanding financial obligation.

7. 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.

#### Minimum General Education Requirements of All Associate Degree (Career Programs)\*

Writing	3	ENGL 1110
Communicating Orally	3	SPCH 1300 or 2300
Using Mathematics	3	See Program Listing
Institutions & Society	3	See Program Listing
Science	3	See Program Listing
Humanities Elective	3	Select course from General Education Core Requirements from the areas titled Heritage; Arts & the Artistic Vision, or Identity, Ethics & Social Responsibility

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\*Students should select courses which meet both program and general education requirements. Students should meet with an advisor before registering for any course to ensure that program requirements are being met. Otherwise, the student's program may be extended until all general education and program requirements are completed.

#### 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 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 residency 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 60 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 [www.etsu.edu/reg/graduation/exitexam.htm](http://www.etsu.edu/reg/graduation/exitexam.htm).
8. Students must file an Intention to Graduate form with the Office of the Registrar, Graduation Section, no later than the beginning of the semester preceding the semester of graduation. 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 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 34 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 admissions 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 follows:

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

Associate degree recipients having a 3.50 grade point average or above receive their degree "with honor."

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

#### **Application for Degree**

Not later than the close of the first month of the senior year (sophomore year for associate degree), each candidate for a degree shall file a Notice of Intention to Graduate (application for degree) with the Office of the Registrar, Graduation Section.

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. Additional information is available at [www.etsu.edu/reg/graduation](http://www.etsu.edu/reg/graduation).

All candidates for degrees are encouraged to take advantage of the placement service in the Career Development Office, located in the 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 at the Same Level**

A student may concurrently receive multiple undergraduate degrees at a single degree level if he or she has fulfilled the total requirements for each degree (e.g., B.A., B.S., B.B.A., etc.) and for each major.

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

The Tennessee General Assembly passed legislation mandating the transferability of 60 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

The General Education requirements here described apply to all undergraduate students pursuing a baccalaureate degree. The purpose of the program resides in the "Philosophy and Goals of General Education."

To fulfill the goals, students must take the prescribed core curriculum and fulfill related requirements.

## PHILOSOPHY AND GOALS OF GENERAL EDUCATION

The purpose of general education is to provide a common experience that enables students to acquire important skills and knowledge, as well as the ability to think critically and perceive interdisciplinary relationships. Students should develop qualities of thought and character that foster and support a lifetime of learning, full and rounded lives, the ability to meet expectations of the workplace, and the desire for quality living in a complex and changing world.

### Proficiencies

ETSU's general education program seeks to ensure that graduates possess at a minimum the following proficiencies:

1. the ability to write clear, coherent, and grammatically correct expository prose;
2. the ability to communicate orally in a succinct, persuasive, and grammatically correct manner, as well as to adapt one's mode of communication to the needs and expectations of various audiences, including those who are literate in various academic disciplines;
3. the ability to read and comprehend serious texts in a variety of academic areas, to relate what one reads to what one knows, and to distinguish fact from opinion;
4. the ability to understand and make use of basic mathematical concepts and tools that are of general use in various academic disciplines; and
5. the ability to use information and creative resources that are available electronically.

### Areas of Familiarity

Beyond these proficiencies the general education program also seeks to ensure that ETSU graduates are familiar with important information and modes of thinking or investigation in various areas of study. This knowledge is not an end in itself. Its purpose is to aid the educated person in perceiving relationships among areas of study and continuing to learn.

It is the expectation of the ETSU faculty and administration that those courses which constitute the general education curriculum will collectively represent a common experience for all students and that in total they will ensure the following:

1. that students understand selected basic scientific principles and technological accomplishments that have shaped our culture and others; that, through in-depth awareness of at least one field of science, students come to understand that science is the process used to discover the fundamental laws of our natural world; and that students recognize the power and limitations of the scientific method, quantitative thinking, and technology;
2. that students understand major components of our nation's heritage – its people, ideas, and wealth of cultural diversity – and how that heritage intersects with and influences our own lives both today and for the future;
3. that students understand how the arts and humanities influence our ability to perceive and appreciate beauty, that students understand the relationship between art and other elements of culture, and that students recognize how art expresses and influences the complex

fabric of assumptions that undergird any society;

4. that students identify their own beliefs, values, ethical basis for decision-making, and sense of social responsibility by using the humanities and literature to experience some of the great thinking about personal identity, social relationships, and social and personal responsibility; and
5. that students, in the interest of social and ethical responsibility, are exposed to varied value and belief systems and the historical and cultural processes that produce them; that students are able to think critically about how individuals are influenced by political, economic, cultural, or family institutions in our own or other cultures; and that students are able to explore how institutions might be directed toward constructive ends.

In summary, ETSU's general education program serves two paramount goals. First, it seeks to ensure that students who earn the baccalaureate degree possess those basic proficiencies that denote an educated person and one suitable for employment. Second, ETSU's general education aims to ensure that graduates understand information and modes of investigation that will permit them to continue to learn, to see relationships and verify learning experiences, and to find their own voices. This understanding will enable students to adapt to change, appreciate cultural variation, and show respect and suspend judgment toward others when exploring different viewpoints and alternatives to problems.

## GENERAL EDUCATION PROGRAM

The university's general education program includes two parts. Part I is a Core Curriculum of 44-45 semester credit hours that address specific academic "Proficiencies" and "Areas of Familiarity." Part II, Requirements Reinforcing Academic Proficiencies, requires students to complete a minimum number of courses that provide intensive experiences in writing, oral communication, and using information technology.

### PART I: CORE CURRICULUM

#### WRITING

**6 Credits**

ENGL 1010	Critical Reading and Expository Writing	(3 cr.)
ENGL 1020	Critical Thinking and Argumentation	(3 cr.)

Students eligible to enroll in ENGL 1010 must do so during their first term. Students required to take DSPW courses should enroll in this course the next term after completing DSPW 0800.

#### USING MATHEMATICS

**3-4 Credits**

Select one course from the following:

MATH 1820	Calculus for Business	(3 cr.)
MATH 1840	Analytic Geometry and Differential Calculus	(3 cr.)
MATH 1530	Probability and Statistics - noncalculus	(3 cr.)
MATH 1910	Calculus I	(4 cr.)

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 required to take DSPM courses should complete the math requirement after completing DSPM 0850, and must do so in the next calendar year or prior to accumulating 33 more semester credits at ETSU.

#### USING INFORMATION TECHNOLOGY

**3 Credits**

CSCI 1100	Using Information Technology	(3 cr.)
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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 challenge exam or by completing successfully CSCI 1100, Using Information Technology.

#### AREAS OF FAMILIARITY

#### SCIENCE

**8 Credits**

Select two courses from the following (required labs are shown with the lecture numbers):

ASTR 1010	Astronomy I	(4 cr.)
ASTR 1020	Astronomy II	(4 cr.)
BIOL 1010-1011	Biology for Non-majors I	(4 cr.)
BIOL 1020-1021	Biology for Non-majors II	(4 cr.)
BIOL 1110-1111	Biology for Science Majors I	(4 cr.)
BIOL 1120-1121	Biology for Science Majors II	(4 cr.)

BIOL 1130-1131	Biology for Science Majors III	(4 cr.)
CHEM 1110-1111	General Chemistry	(4 cr.)
CHEM 1120-1121	General Chemistry	(4 cr.)
CHEM 1320-1321	Introductory Chemistry	(4 cr.)
GEOL 1040	Physical Geology	(4 cr.)
GEOL 1050	Historical Geology	(4 cr.)
GEOG 1110	Earth Science: Weather and Climate	(4 cr.)
GEOG 1120	Earth Science: Landforms and Processes	(4 cr.)
HSCI 2010-2011	Anatomy and Physiology I	(4 cr.)
HSCI 2020-2021	Anatomy and Physiology II	(4 cr.)
PHYS 2010-2011	General Physics I - Non-Calculus	(4 cr.)
PHYS 2020-2021	General Physics II - noncalculus	(4 cr.)

#### Open to Nonscience Majors only:

CHEM 1000	Chemistry and Well Being	(4 cr.)
CHEM 1030	Introduction to Chemistry Survey	(4 cr.)
PHYS 1030	Introduction to Physics Survey	(4 cr.)

#### HERITAGE

**9 Credits**

HIST 2010	The United States to 1877	(3 cr.)
HIST 2020	The United States Since 1877	(3 cr.)

And one of the following:

ENGL 2030	Literary Heritage	(3 cr.)
ENGL 2130	American Literature	(3 cr.)
ENGL 2210	British Literature I	(3 cr.)
ENGL 2220	British Literature II	(3 cr.)
ENGL 2430	European Literature	(3 cr.)
ENGL 2330	World Literature	(3 cr.)

#### ARTS AND THE ARTISTIC VISION

**3 Credits**

Select one of the following:

ARTA 2010	Art History Survey I	(3 cr.)
ARTA 2020	Art History Survey II	(3 cr.)
HUMT 2310	Introduction to the Humanities I	(3 cr.)
HUMT 2320	Introduction to the Humanities II	(3 cr.)
MUSC 1030	Introduction to Music	(3 cr.)
MUSC 1035	History of Jazz	(3 cr.)
PEXS 3500	Dance as Human Experience	(3 cr.)
THEA 1030	Introduction to the Theatre	(3 cr.)



<b>IDENTITY, ETHICS, AND SOCIAL RESPONSIBILITY</b>	<b>3 Credits</b>	PSCI 1120 Introduction to American Government (3 cr.)
		PSYC 1310 Introduction to Psychology (3 cr.)
		SOAA 1020 Introduction to Sociology (3 cr.)
		SOAA 1240 Introduction to Cultural Anthropology (3 cr.)
Select one of the following:		
ENGL 3150 Literature, Ethics, and Values	(3 cr.)	
HUMT 1020 Introduction to Service Learning	(3 cr.)	
PHIL 1030 Self and World	(3 cr.)	
PHIL 2020 Values and Society	(3 cr.)	
PHIL 2040 Philosophy as Conversation	(3 cr.)	
PHIL 2210 Introduction to the Study of Religion	(3 cr.)	
PSCI 1110 Political Life	(3 cr.)	
SOAA 2020 Social Problems and Human Values	(3 cr.)	
WMST 2010 Introduction to Women's Studies	(3 cr.)	

<b>INSTITUTIONS AND SOCIETY</b>	<b>6 Credits</b>	
Select two of the following (only one course from ECON):		
ECON 1050 Economics and Society	(3 cr.)	
or		
ECON 2210 Principles of Economics Part I	(3 cr.)	
GEOG 1012 Introduction to Cultural Geography	(3 cr.)	
		or one unduplicated course from the above areas of:
		HERITAGE
		ARTS AND THE ARTISTIC VISION
		IDENTITY, ETHICS, AND SOCIAL RESPONSIBILITY

## PART II: REQUIREMENTS REINFORCING ACADEMIC PROFICIENCIES

Courses that fulfill writing-intensive, oral communication-intensive, and using information technology-intensive requirements are indicated in the Schedule of Classes each term. A complete listing of proficiency-intensive courses is also available at <http://www.etsu.edu/reg/intensiv.htm>.

**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 levels.

**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 a minimum of one using information technology-intensive course in the major field of study.

**READING** Students who are required to take the AAPP test (see "Enrolling at ETSU") and who are assessed as being deficient in reading must complete DSPR 0800 prior to accumulating 33 semester credits at ETSU. Faculty in any course who question whether a student is reading at a reasonable college level may remand the student to the Developmental Studies Program for assessment.

**SPECIAL NOTES ON MEETING CORE REQUIREMENTS:**

1. The following categories of students are only required to take TWO writing-intensive courses, ONE oral communication-intensive course, and ONE using information technology-intensive course:
  - a. Transfer students with an associate degree designed for transfer;
  - b. Transfer students with 60 or more transferrable semester credits; and
  - c. Readmission students with 60 or more hours, whose last term of enrollment at ETSU was prior to 1995.
2. Students must meet proficiency intensive requirements through courses taken at ETSU.
3. A student has six years to complete the requirements of the undergraduate catalog under which he or she entered ETSU. ETSU also provides transfer students the opportunity to meet the ETSU catalog degree requirements in effect for a period of six years from the date of first entrance into higher education.

**Additional Requirements for Graduation:**

<b>PHYSICAL EDUCATION</b>	<b>2 Credits</b>	One PHED course from the fitness activity category (any 1000 level course) <b>and</b> one PHED course from the lifetime activities category (any 2000 level course).  Marching Band MUSC 1201 or Military Science MSC1 1217, 2130, or 3217 may fulfill either the fitness or the lifetime activity category.  NOTE: Two courses must be taken to fulfill the requirement.
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**Tennessee Board of Regents' Minimum Degree Requirements  
and  
Courses That Fulfill Minimum Degree Requirements**

All universities and community colleges in the Tennessee Board of Regents System (TBR) share a common set of Minimum Requirements for baccalaureate degrees or associate degrees designed for transfer. The Minimum Degree Requirements specify thirty-two semester credit hours in the following subject areas:

Subject Area	Semester Credit Hours Required
<b>English Composition</b> ENGL 1006 English as a Second Language ENGL 1008 English as a Second Language ENGL 1010 Critical Reading and Expository Writing ENGL 1020 Critical Thinking and Argumentation ENGL 1018 Honors Composition I ENGL 1028 Honors Composition II	<b>6</b>
<b>Humanities, including at least 3 semester credit hours in literature</b> ARTA 2010 Art History Survey I ARTA 2020 Art History Survey II ENGL 2030 Literary Heritage ENGL 2130 American Literature ENGL 2210 British Literature I ENGL 2220 British Literature II ENGL 2430 European Literature ENGL 2330 World Literature ENGL 2138 Honors Survey of American Literature ENGL 2238 Honors Survey of British Literature ENGL 2338 Honors Survey of World Literature ENGL 2438 Honors Survey of European Literature ENGL 3280 Mythology ENGL 3150 Literature, Ethics, and Values ENTC 3020 Technology and Society HIST 1110 World History to 1500 HIST 1120 World History Since 1500 HUMT 2310 Introduction to Humanities I HUMT 2320 Introduction to Humanities II MUSC 1030 Introduction to Music/Music Appreciation MUSC 1035 History of Jazz PEXS 3500 Dance as a Human Experience PHIL 1030 Self and World PHIL 2020 Values and Society PHIL 2040 Philosophy as Conversation PHIL 2210 Introduction to the Study of Religion PHIL 2640 Science and the Modern World PSCI 1110 Political Life SOAA 2020 Social Problems and Human Values THEA 1030 Introduction to Theatre WMST 2010 Introduction to Women's Studies	<b>9</b>

<p><b>History</b> (TBR universities require American History, except in a limited number of majors exempted from the requirement. Students may substitute 3 semester credit hours of Tennessee History for the American History required.)</p> <p>HIST 2010 The United States to 1877 HIST 2020 The United States Since 1877 HIST 2030 History of Tennessee</p>	<b>6</b>
<p><b>Natural/Physical Sciences and Mathematics</b>, to include one year of science and at least one course in mathematics.</p> <p>ASTR 1010 Astronomy I ASTR 1020 Astronomy II</p> <p>BIOL 1010-1011 Biology for Non-Majors I, Lecture and Laboratory BIOL 1020-1021 Biology for Non-Majors II, Lecture and Laboratory BIOL 1110-1111 Biology for Science Majors I, Lecture and Laboratory BIOL 1120-1121 Biology for Science Majors II, Lecture and Laboratory BIOL 1130-1131 Biology for Science Majors III, Lecture and Laboratory</p> <p>CHEM 1030 Introduction to Chemistry Survey CHEM 1000 Chemistry and Well Being CHEM 1110-1111 General Chemistry I, Lecture and Laboratory CHEM 1120-1121 General Chemistry II, Lecture and Laboratory CHEM 1320-1321 Introductory Organic and Biochemistry, Lecture and Laboratory</p> <p>GEOG 1110 Earth Science: Weather and Climate GEOG 1120 Earth Science: Landforms and Processes</p> <p>GEOL 1040 Physical Geology GEOL 1050 Historical Geology</p> <p>HSCI 2010-2011 Anatomy and Physiology I, Lecture and Laboratory HSCI 2020-2021 Anatomy and Physiology II, Lecture and Laboratory</p> <p>PHYS 1030 Introduction to Physics Survey PHYS 2010-2011 General Physics I - Non-Calculus, Lecture and Laboratory PHYS 2020-2021 General Physics II - Non-Calculus, Lecture and Laboratory</p> <p>MATH 1820 Calculus for Business MATH 1840 Analytic Geometry and Differential Calculus MATH 1530 Probability and Statistics - Non-Calculus MATH 1910 Calculus</p>	<b>9</b>
<p><b>Physical Education Activity Courses</b>, to be taken as two one-semester credit hour courses. (Institutions may substitute satisfactory participation in ROTC, marching band, or armed forces experiences for physical education activity courses.)</p> <p>All PHED - - - -</p>	<b>2</b>
<b>TOTAL</b>	<b>32</b>

Every TBR institution incorporates the thirty-two semester hours listed above into its degree program requirements and accepts all courses designated as meeting these requirements at other TBR institutions. By ensuring the transferability of courses fulfilling the Minimum Degree Requirements, the TBR has eliminated unnecessary repetition of these courses by students transferring to institutions within the TBR system. Because each TBR institution has a unique mission and its own distinctive curriculum, an institution may require students to complete additional courses in the Minimum Degree subject areas and in other areas that may comprise an institutional General Education Program. Students planning to receive a bachelor of arts or associate of arts degree must demonstrate proficiency in a foreign language as prescribed in the institutional degree requirements.

**Identifying Courses Satisfying the Minimum Degree Requirements**

Although the courses fulfilling the minimum degree requirements may vary in actual design among institutions, many contain similar content. These courses are identified by common course rubrics (prefixes) and numbers in all TBR institutions to facilitate transferability. The actual courses designated by each institution to fulfill the Minimum Degree Requirements, including courses that may not be a part of the common course prefix and numbering pattern, are denoted in catalogs by the symbol. A complete matrix of courses that satisfy the Minimum Degree Requirements in all TBR institutions and an explanation of the common course rubric and numbering system are available on the TBR web page ([www.tbr.state.tn.us](http://www.tbr.state.tn.us)).

# DEGREE PROGRAMS, MAJORS AND CONCENTRATIONS

<u>MAJOR AND DEGREE</u>	<u>CONCENTRATION</u>	<u>EDUCATION LICENSURE CONCENTRATION</u>	<u>SOCIAL AND BEHAVIORAL SCIENCE CONCENTRATION</u>
<b><u>COLLEGE OF APPLIED SCIENCE AND TECHNOLOGY</u></b>			
<b>APPLIED HUMAN SCIENCES DEPARTMENT (AHSC)</b>			
APPLIED HUMAN SCIENCES Bachelor of Science (B.S.)	Dietetics/Food Systems Management Merchandising Apparel Child and Family Studies Interior Design Family and Consumer Sciences Education (5-12)		
CLINICAL NUTRITION Master of Science (M.S.)			
<b>COMPUTER AND INFORMATION SCIENCES DEPARTMENT (CSCI)</b>			
COMPUTER AND INFORMATION SCIENCES Bachelor of Science (B.S.)	Computer Science Information Systems Science Information Technology		
Master of Science (M.S.)	Information Technology Applied Computer Science		
<b>GEOGRAPHY, GEOLOGY AND GEOMATICS DEPARTMENT (GGGS)</b>			
GEOGRAPHY Bachelor of Science (B.S.)	Geography  Resource Management	Geography Education 7-12  Earth Science Education 7-12	Geography/SBS Geography Education 7-12/SBS Resource Management/SBS
SURVEYING AND MAPPING SCIENCE Bachelor of Science (B.S.)			
<b>TECHNOLOGY DEPARTMENT (TECH)</b>			
ENGINEERING TECHNOLOGY Bachelor of Science (B.S.)	Biomedical Engineering Technology Construction Technology Engineering Design Graphics Technology Electronics Engineering Technology Manufacturing Engineering Technology Industrial Technology Technology Education	Technology Education	
TECHNOLOGY Master of Science (M.S.)	Engineering Technology Industrial Arts/Technology Education Digital Media		

<u>MAJOR AND DEGREE</u>	<u>CONCENTRATION</u>	<u>EDUCATION LICENSURE CONCENTRATION</u>	<u>SOCIAL AND BEHAVIORAL SCIENCE CONCENTRATION</u>
<b><u>COLLEGE OF ARTS AND SCIENCES</u></b>			
<b>ART AND DESIGN DEPARTMENT (ARTA)</b>			
<b>ART</b> Bachelor of Arts (B.A.)  Bachelor of Science (B.S.) Bachelor of Fine Arts (B.F.A.)  Master of Arts (M.A.)  Master of Fine Arts (M.F.A.)	Art Education Art History Studio Art – BA  Pre-Medical Illustration  Studio Art – BFA  Art Education Art History Studio Art – MA  Studio Art – MFA		Pre-Medical Illustration/ SBS
<b>BIOLOGICAL SCIENCES DEPARTMENT (BISC)</b>			
<b>BIOLOGY</b> Bachelor of Arts (B.A.)  Bachelor of Science (B.S.)  Master of Science (M.S.)	Biochemistry  Biology Microbiology	Biology Education 7-12  Biology Education 7-12	
<b>CHEMISTRY DEPARTMENT (CHEM)</b>			
<b>CHEMISTRY</b> Bachelor of Science (B.S.)  Master of Science (M.S.)	Chemistry  ACS Chemistry  Chemistry Professional Biochemistry	Chemistry Education 7-12  Chemistry ACS Education 7-12	Chemistry Education 7-12/ SBS Chemistry ACS Education 7-12/SBS
<b>COMMUNICATIONS DEPARTMENT (COMM)</b>			
<b>MASS COMMUNICATIONS</b> Bachelor of Arts (B.A.)  Bachelor of Science (B.S.)	Advertising Broadcasting Journalism Public Relations  Advertising Broadcasting Journalism Public Relations		Advertising/SBS Broadcasting/SBS Journalism/SBS Public Relations/SBS
<b>SPEECH</b> Bachelor of Arts (B.A.)  Bachelor of Science (B.S.)	Speech Theatre  Speech Theatre	Speech Communication 7-12 Theatre Education K-12  Speech Communication 7-12  Theatre Education K-12	Speech/SBS Theatre/SBS Speech Communication 7-12/ SBS Theatre Education K-12/ SBS

<u>MAJOR AND DEGREE</u>	<u>CONCENTRATION</u>	<u>EDUCATION LICENSURE CONCENTRATION</u>	<u>SOCIAL AND BEHAVIORAL SCIENCE CONCENTRATION</u>
PROFESSIONAL COMMUNICATION Master of Arts (M.A.)			
<b>CRIMINAL JUSTICE AND CRIMINOLOGY DEPARTMENT (CJCR)</b>			
CRIMINAL JUSTICE & CRIMINOLOGY Bachelor of Arts (B.A.)  Bachelor of Science (B.S.)  Master of Arts (M.A.)			Criminal Justice/SBS
<b>ENGLISH DEPARTMENT (ENGL)</b>			
ENGLISH Bachelor of Arts (B.A.)  Master of Arts (M.A.)		English Education 7-12	
<b>FOREIGN LANGUAGES DEPARTMENT (LANG)</b>			
FOREIGN LANGUAGES Bachelor of Arts (B.A.)	French German Spanish	French Education 7-12 German Education 7-12 Spanish Education 7-12	
<b>HISTORY DEPARTMENT (HIST)</b>			
HISTORY Bachelor of Arts (B.A.)  Bachelor of Science (B.S.)  Master of Arts (M.A.)		History Education 7-12  History Education 7-12	History/SBS History Education 7-12/ SBS
<b>MATHEMATICS DEPARTMENT (MATH)</b>			
MATHEMATICS Bachelor of Science (B.S.)		Mathematics Education 7-12	Mathematics/SBS Mathematics Education 7-12/SBS
MATHEMATICAL SCIENCES Master of Science (M.S.)			
<b>MUSIC DEPARTMENT (MUSC)</b>			
MUSIC Bachelor of Music (B.M.)	Music Education   Performance	Music Education Instrumental K-12 Music Education Vocal General K-12 Music Education Keyboard/Vocal	
MUSIC EDUCATION Master of Music Education (M.Mu.Ed.)			
<b>PHILOSOPHY AND HUMANITIES DEPARTMENT (PHAH)</b>			
Bachelor of Arts (B.A.)  Bachelor of Science (B.S.)	Philosophy Philosophy and Religious Studies  Philosophy Philosophy and Religious Studies		Philosophy/SBS Philosophy and Religious Studies/SBS

<u>MAJOR AND DEGREE</u>	<u>CONCENTRATION</u>	<u>EDUCATION LICENSURE CONCENTRATION</u>	<u>SOCIAL AND BEHAVIORAL SCIENCE CONCENTRATION</u>
<b>PHYSICS DEPARTMENT (PHYS)</b>			
PHYSICS Bachelor of Science (B.S.)		Physics Education 7-12	Physics/SBS Physics Education 7-12/ SBS
<b>POLITICAL SCIENCE DEPARTMENT (PSCI)</b>			
POLITICAL SCIENCE Bachelor of Arts (B.A.)		Government Education 7-12	
Bachelor of Science (B.S.)		Government Education 7-12	Political Science/SBS Government Education 7-12/SBS
<b>PSYCHOLOGY DEPARTMENT (PSYC)</b>			
PSYCHOLOGY Bachelor of Arts (B.A.)		Psychology Education 7-12	
Bachelor of Science (B.S.)		Psychology Education 7-12	Psychology/SBS Psychology Education 7-12/SBS
Master of Arts (M.A.)	Clinical Psychology General Psychology		
<b>SOCIAL WORK DEPARTMENT (SOWK)</b>			
SOCIAL WORK Bachelor of Social Work (B.S.W.)		School Social Worker	School Social Worker/SBS
<b>SOCIOLOGY AND ANTHROPOLOGY DEPARTMENT (SOAA)</b>			
SOCIOLOGY Bachelor of Arts (B.A.)		Sociology Education 7-12	
Bachelor of Science (B.S.)		Sociology Education 7-12	Sociology/SBS Sociology Education 7-12/ SBS
Master of Arts (M.A.)	Applied Sociology General Sociology		
<b><u>COLLEGE OF BUSINESS</u></b>			
<b>ACCOUNTANCY DEPARTMENT (ACCT)</b>			
ACCOUNTING Bachelor of Business Administration (B.B.A.)			
Master of Accountancy (M.Acc.)			
<b>ECONOMICS, FINANCE, AND URBAN STUDIES DEPARTMENT (EFUS)</b>			
ECONOMICS Bachelor of Arts (B.A.)	Urban and Regional Studies	Economics Education 7-12	
ECONOMICS Bachelor of Business Administration (B.B.A.)	Business Economics General Business		
FINANCE Bachelor of Business Administration (B.B.A.)	Corporate Finance & Investments Banking Real Estate		

<u>MAJOR AND DEGREE</u>	<u>CONCENTRATION</u>	<u>EDUCATION LICENSURE CONCENTRATION</u>	<u>SOCIAL AND BEHAVIORAL SCIENCE CONCENTRATION</u>
PUBLIC MANAGEMENT (Interdepartmental) Master of Public Management (M.P.M.)  Master of City Management (M.C.M.) (Alternate Degree Designation)	Urban and Regional Planning Urban and Regional Economic Development Community Development Municipal Service Management General Administration  City Management		
<b>MANAGEMENT AND MARKETING DEPARTMENT (MGMK)</b>			
MANAGEMENT Bachelor of Business Administration (B.B.A.)	Management Information Systems Legal Studies Logistics/Supply Chain Management		
MARKETING Bachelor of Business Administration (B.B.A.)	Integrated Marketing Communications Marketing Management Food Marketing		
BUSINESS ADMINISTRATION (Interdepartmental) Graduate Certificate (C4)  Master of Business Administration (M.B.A.)			
HEALTH CARE MANAGEMENT  (Interdisciplinary – See College of Nursing; and Public Health Department, College of Public and Allied Health)  Graduate Certificate (C4)			
<b><u>SCHOOL OF CONTINUING STUDIES</u></b>			
<b>CROSS-DISCIPLINARY STUDIES DEPARTMENT (CDST)</b>			
APPLIED SCIENCE Bachelor of Applied Science (B.A.S.)	Professional Development		
GENERAL STUDIES Bachelor of General Studies (B.G.S.)			
INTERDISCIPLINARY STUDIES (Regents Online Degree) Bachelor of Science (B.S.)			
LIBERAL STUDIES Master of Arts in Liberal Studies (M.A.L.S.)			
PROFESSIONAL STUDIES (Regents Online Degree) Bachelor of Science (B.S.)	Information Technology Organizational Leadership		



<u>MAJOR AND DEGREE</u>	<u>CONCENTRATION</u>	<u>EDUCATION LICENSURE CONCENTRATION</u>	<u>SOCIAL AND BEHAVIORAL SCIENCE CONCENTRATION</u>
<b><u>COLLEGE OF EDUCATION</u></b>			
<b>CURRICULUM AND INSTRUCTION DEPARTMENT</b>			
ELEMENTARY EDUCATION Master of Education (M.Ed.)  Master of Arts in Teaching (M.A.T.)		Elementary Education 1-8	
INTERDISCIPLINARY STUDIES Bachelor of Science in Education (B.S.Ed.)	Human Development and Learning  Early Childhood Development  Arts and Humanities Science and Mathematics Social and Behavioral Sciences	Human Development and Learning Early Childhood Development Arts and Humanities Science and Mathematics Social and Behavioral Sciences	
SECONDARY EDUCATION Master of Education (M.Ed.)  Master of Arts in Teaching (M.A.T.)	Classroom Technology	K-12 Education 7-12 Education	
READING Master of Arts (M.A.)  Master of Education (M.Ed.)	Reading Education Reading and Storytelling  Reading Education Reading and Storytelling		
EDUCATIONAL MEDIA AND EDUCATIONAL TECHNOLOGY Master of Education (M.Ed.)	School Library Media  Educational Communication and Technology	School Library Media  Educational Communication And Technology	
<b>HUMAN DEVELOPMENT AND LEARNING DEPARTMENT (HDAL)</b>			
COUNSELING Master of Arts (M.A.)	Elementary & Secondary School Counseling Marriage & Family Therapy Community Agency Counseling	Elementary & Secondary School Counseling	
SPECIAL EDUCATION Bachelor of Science (B.S.)  Master of Education (M.Ed.)	Special Education (General) Modified Special Education  Advanced Practitioner Early Childhood Special Education Special Education	Modified Special Education	
EARLY CHILDHOOD EDUCATION Master of Arts (M.A.)  Master of Education (M.Ed.)	Early Childhood (General) Early Childhood Teaching	Early Childhood Teaching	

<u>MAJOR AND DEGREE</u>	<u>CONCENTRATION</u>	<u>EDUCATION LICENSURE CONCENTRATION</u>	<u>SOCIAL AND BEHAVIORAL SCIENCE CONCENTRATION</u>
EARLY CHILDHOOD DEVELOPMENT Bachelor of Science (B.S.)	Early Childhood Development (General) Early Childhood Development Pre-K-3	Early Childhood Development Pre-K-3	
HUMAN DEVELOPMENT & LEARNING Bachelor of Science (B.S.)			
<b>PHYSICAL EDUCATION, EXERCISE, AND SPORT SCIENCES DEPARTMENT (PEXS)</b>			
PHYSICAL EDUCATION Bachelor of Science (B.S.)	Physical Education K-12 Exercise Science Sport Management & Leisure Services	Physical Education K-12	
Master of Arts (M.A.)	Fitness Leadership Exercise Physiology Sports Management Sports Sciences		
Master of Education (M.Ed.)			
<b>EDUCATIONAL LEADERSHIP AND POLICY ANALYSIS DEPARTMENT (ELPA)</b>			
EDUCATIONAL LEADERSHIP Master of Education (M.Ed.)		Administrative Endorsement – M.Ed.	
Education Specialist (Ed.S.)	School System Leadership Teacher Leadership Administrative Endorsement – Ed.S.	Administrative Endorsement – Ed.S.	
Doctor of Education (Ed.D.)	School Leadership Classroom Leadership Postsecondary & Private Sector Leadership Administrative Endorsement – Ed.D.	Administrative Endorsement – Ed.D.	
<b><u>COLLEGE OF NURSING</u></b>			
<b>FAMILY COMMUNITY NURSING DEPARTMENT (FCNU)</b>			
<b>ADULT NURSING DEPARTMENT (ALNU)</b>			
<b>PROFESSIONAL ROLES AND MENTAL HEALTH NURSING DEPARTMENT (PMNU)</b>			
NURSING Bachelor of Science in Nursing (B.S.N.)			
Master of Science in Nursing (M.S.N.)			
Doctor of Nursing (D.S.N.)			
ADVANCED NURSING PRACTICE Graduate Certificate (C4)			

<u>MAJOR AND DEGREE</u>	<u>CONCENTRATION</u>	<u>EDUCATION LICENSURE CONCENTRATION</u>	<u>SOCIAL AND BEHAVIORAL SCIENCE CONCENTRATION</u>
HEALTH CARE MANAGEMENT  (Interdisciplinary – See Management and Marketing Department, College of Business; And Public Health Department, College of Public and Allied Health)  Graduate Certificate (C4)			
<b><u>COLLEGE OF PUBLIC AND ALLIED HEALTH</u></b>			
<b>COMMUNICATIVE DISORDERS DEPARTMENT (CDIS)</b>			
COMMUNICATIVE DISORDERS Master of Science (M.S.)	Audiology  Speech Pathology	Special Education Audiology Pre-K-12 Special Education Speech Path Pre-K-12	
<b>DENTAL HYGIENE DEPARTMENT (DHYG)</b>			
DENTAL HYGIENE Associate of Applied Science (A.A.S.)  Bachelor of Science in Dental Hygiene (B.S.D.H)			
<b>ENVIRONMENTAL HEALTH DEPARTMENT (ENVH)</b>			
ENVIRONMENTAL HEALTH Bachelor of Science in Environmental Health (B.S.E.H.)  Master of Science in Environmental Health (M.S.E.H.)	Environmental Health Practices Occupational Health & Safety  Administrative Program Specialist Program		
<b>PUBLIC HEALTH DEPARTMENT (PUBH)</b>			
PUBLIC HEALTH Bachelor of Science (B.S.)  Master of Public Health (M.P.H.)	Community Health Health Administration School Health Patient Education  Community Health Public Health Administration	School Health	
GERONTOLOGY Graduate Certificate (C4)			
HEALTH CARE MANAGEMENT  (Interdisciplinary – See Management and Marketing Department, College of Business; College of Nursing)  Graduate Certificate (C4)			
<b>HEALTH SCIENCES DEPARTMENT (HSCI)</b>			
HEALTH SCIENCES Bachelor of Science (B.S.)	Medical Technology Microbiology		

<u>MAJOR AND DEGREE</u>	<u>CONCENTRATION</u>	<u>EDUCATION LICENSURE CONCENTRATION</u>	<u>SOCIAL AND BEHAVIORAL SCIENCE CONCENTRATION</u>
<b>HEALTH RELATED PROFESSIONS DEPARTMENT (HRPN)</b>			
ALLIED HEALTH Bachelor of Science (B.S.)	Radiography Cardiopulmonary Science		
<b>PHYSICAL THERAPY DEPARTMENT (PHYT)</b>			
PHYSICAL THERAPY Master of Physical Therapy (M.P.T.)			
<b><u>COLLEGE OF MEDICINE</u></b>			
BIOMEDICAL SCIENCES Master of Science (M.S.)	Anatomy Biochemistry Microbiology Pharmacology Physiology		
Doctor of Philosophy (Ph.D.)	Anatomy Biochemistry Microbiology Pharmacology Physiology		
MEDICINE Doctor of Medicine (M.D.) (See Catalog for College of Medicine)			

DEPARTMENT	MAJOR		
<u>PRE-PROFESSIONAL PROGRAMS</u>			
<u>COLLEGE OF APPLIED SCIENCE AND TECHNOLOGY</u>			
TECHNOLOGY DEPARTMENT (TECH)	PRE-ENGINEERING	No Degree	
<u>COLLEGE OF ARTS AND SCIENCES</u>			
CHEMISTRY DEPARTMENT (CHEM)	PRE-PHARMACY	No Degree	
PHYSICS DEPARTMENT (PHYS)	PRE-MEDICINE	No Degree	
	PRE-OPTOMETRY	No Degree	
	PRE-VETERINARY MEDICINE	No Degree	
POLITICAL SCIENCE DEPARTMENT	PRE-LAW	No Degree	
<u>COLLEGE OF PUBLIC AND ALLIED HEALTH</u>			
DENTAL HYGIENE DEPARTMENT (DHYG)	PRE-DENTISTRY	No Degree	
PHYSICAL THERAPY DEPARTMENT (PHYT)	PRE-PHYSICAL THERAPY	No Degree	
	PRE-OCCUPATIONAL THERAPY	No Degree	
<u>MINORS</u>			
GEOGRAPHY, GEOLOGY, AND GEOMATICS DEPARTMENT (GGGS)	GEOLOGY		
MILITARY SCIENCE DEPARTMENT (MSCI)	MILITARY SCIENCE		
ENGLISH DEPARTMENT (ENGL)	FILM STUDIES		
COMMUNICATIONS DEPARTMENT (COMM)	WOMEN'S STUDIES		
FOREIGN LANGUAGES DEPARTMENT (LANG)	JAPANESE		
HISTORY DEPARTMENT (HIST)	AFRICAN/AFRICAN-AMERICAN STUDIES		
	INTERNATIONAL STUDIES		
POLITICAL SCIENCE DEPARTMENT (PSCI)	LEGAL STUDIES		
SOCIOLOGY AND ANTHROPOLOGY DEPARTMENT (SOAA)	ANTHROPOLOGY		
	APPALACHIAN STUDIES		
ECONOMICS, FINANCE, AND URBAN STUDIES DEPARTMENT (EFUS)	GENERAL BUSINESS		
	URBAN AND REGIONAL STUDIES		
MANAGEMENT AND MARKETING DEPARTMENT (MGMK)	LEADERSHIP STUDIES		
PHYSICAL EDUCATION, EXERCISE, AND SPORTS SCIENCES DEPARTMENT (PEXS)	COACHING		
	LEISURE SERVICES		
	SPORT MANAGEMENT		
ENVIRONMENTAL HEALTH DEPARTMENT (ENVH)	SAFETY		

## Academic Honors Programs

The primary mission of the various Academic Honors Programs at ETSU is to provide unique educational opportunities for academically talented students. Within this mission, our goals focus on recruiting exceptional students, nurturing their intellectual growth through challenging curricula, promoting their commitment to lifelong learning and service, and instilling in them a desire to advance knowledge in their chosen fields. In order to accomplish these goals, Honors Programs enlist exceptional faculty, who are provided opportunities to promote innovative and creative approaches to teaching in their classrooms and laboratories. Honors Scholars are provided opportunity to work collaboratively with professors in research and scholarly activities, and receive assistance in the pursuit of fellowships, awards, and access to continued studies in graduate and professional programs.

Academic Honors Programs offered include the University Honors Scholars program and a variety of Honors-in-Discipline programs that are identified by major field of interest. All Honors Programs provide out-of-state tuition waivers, and some offer additional scholarship opportunities. The University Honors Programs Office directly administers the University Honors Scholars Program and provides oversight and coordination for all Honors-in-Discipline programs.

### Honors-in-Discipline Programs

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; please direct inquiries about potential new programs to the University Honors Programs Office, P.O. Box 70294, ETSU, Johnson City, TN 37614-1701; 423/439-6456; email to Honors@ETSU.edu.

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

College of Applied Science & Technology  
College of Business  
College of Nursing

*within the College of Arts & Sciences, the*  
Department of Chemistry  
Department of Biological Sciences  
Department of Criminal Justice & Criminology  
Department of English  
Department of History  
Department of Mathematics  
Department of Physics and Astronomy

*within the College of Education, the*  
Teacher Certification Program

*and within the College of Public and Allied Health, the*  
Department of Environmental Health

### University Honors Scholars Program

The University Honors Scholars Program is a four-year program specially designed for outstanding 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, 20 exceptional high school students are invited to join the

program. Each student is provided a full scholarship that includes tuition, fees, costs of standard dormitory and meal plans, and a book allowance; students are expected to reside on campus during their freshman and sophomore years in the program. Scholarships are granted for four years, depending upon successful completion of coursework, attainment of minimum GPA standards (see below), and completion of an Honors Thesis. Students work closely with a faculty mentor in their major or minor area of interest. University Scholars receive special workshops on campus resources, study abroad and exchange programs, fellowship/award opportunities, and graduate/professional school application procedures. Students are encouraged to participate with their colleagues in the Honors Student Council, as student representatives on the Honors Advisory Committee, and as active members of student organizations across campus. Through our institutional membership in the National Collegiate Honors Council, ETSU University Scholars are provided access to state, regional, and national council positions. A variety of social and cultural activities are provided. University Scholars have unrestricted access to Honors House, with computer facilities, conference and meeting rooms, lounge, and study areas. Honors House is located at 914 W. Maple Street and is home to the University Honors Programs Office. Interested potential candidates are encouraged to visit Honors House and meet with the Director; call 423/439-6456 or email Honors@etsu.edu for more information or to make an appointment.

Admission to the University Honors Scholars Program requires special application. Applications are available only from the University Honors Programs Office, P.O. Box 70294, ETSU, Johnson City, TN 37614-1701. Minimal qualifications for consideration for admission include a 29 ACT or 1280 SAT 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. Students that do not meet minimum test scores, but with unique qualifications in other areas, may be considered for admission. Scholarships are awarded on a competitive basis each year. The application deadline typically is the end of January for admission the following fall semester. Graduates from the program receive special regalia, and "University Honors Scholar" designation on transcripts and diploma.

The University Honors Scholars program provides special general education courses with small class sizes that emphasize writing and discussion. Most requirements in general education are provided in year-long, interdisciplinary honors seminars, including Quest for Meanings & Values, Artistic Experience, Institutions & Society, Great Ideas in Science and Honors Colloquium. All Honors Scholars must successfully complete a semester of Calculus, a year of Honors U.S. History, all honors general education courses, and an Honors Thesis. For their Honors Thesis, students work in their major or minor interest in collaboration with a faculty member on a significant creative research project. Skills acquired by completing this requirement provide a capstone experience for students in their senior year and enhance their preparation for continued studies or professional occupations.

In order to be retained in the program, University Honors Scholars are required to complete 15 credit hours per semester, and to maintain the following GPA standards: 1st semester, 2.75; 2nd semester 3.0; 3rd semester, 3.15; 4th and remaining semesters, 3.25. Probationary status may be granted for one semester only before scholarship support is withdrawn.

## College of Applied Science and Technology

**P.O. Box 70553**

**Phone: 423/439-7500**  
**E-Mail: [johnsonk@etsu.edu](mailto:johnsonk@etsu.edu)**

The mission of the College of Applied Science and Technology is to promote specialized and professional competence in a variety of technological and applied science programs 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.

The College of Applied Science and Technology offers baccalaureate and master's degrees in the departments of Applied Human Sciences; Computer and Information Sciences; Geography, Geology and Geomatics; and Technology. Military Science, Pre-engineering, and the Division of Vocational Education programs are also administered within the college.

### Degrees and Programs

<u>Department</u>	<u>Program Concentrations</u>	<u>Degree</u>
Applied Human Sciences	Applied Human Sciences	B.S.
	Child and Family Studies	
	Dietetics/Food Systems Management	M.S.
	Family and Consumer Sciences Education	
	Interior Design	
	Merchandising	
Clinical Nutrition		
Computer & Information Science	Computer and Information Science	B.S.
	Computer Science	M.S.
	Information Systems Sciences	
	Information Technology	
Computer and Information Science		
	Computer Science	
	Information Science	
	Software Engineering	
Geography, Geology and Geomatics	Geography	B.S.
	Geography Education	
	Resource Management	
	Surveying & Mapping	
Military Science	ROTC Basic Phase	minor
	ROTC Advanced Phase	
Technology	Engineering Technology	B.S., M.S.
	Biomedical	
	Construction	
	Electronics	
	Manufacturing	
	Digital Media (Pending TBR approval)	
	Industrial Technology	
	Technology Education	
Division of Voc. Education	Trade and Industrial Education	Cert.
Engineering Transfer	One- or Two-Year Transfer	

### Engineering Transfer Program

Students planning to pursue an academic program in engineering may take the first two years of study directed by an advisor. Students should be fully aware of the required curriculum of the institution to which they plan to transfer and must follow close advising.

A rigid high school program in mathematics and high ACT scores are essential indicators of success and later transfer. High school mathematics credits should include two years of algebra; one year of geometry; one year of trigonometry/precalculus. One or more computer-type courses as well as one year of calculus are highly recommended.

Students entering without deficiency spend two years (four semesters) and usually follow a prescribed program. During the second year applications are submitted to the engineering school of choice. It is important that freshman students decide which university they plan to transfer to for their B.S. in engineering and check the program of the school for specific requirements in the selected engineering discipline.

### College Honors Program

The College of Applied Science and Technology has specifically designed a program of study for honors students that is taught by outstanding faculty. It includes courses in professional ethics, technical communication, methods of research, honors thesis and the opportunity for international study. Additionally, there are specific departmental courses in a student's major where further enrichment opportunities are provided. Scholarships are awarded, and cooperative education and intern experiences are encouraged.

College honors students are assigned mentor professors who serve to guide, support and advise. Class size is small with much interaction and discussion. Students are encouraged to be active in the departmental professional organizations, honor societies and other ETSU groups.

Students can qualify for admission to the College Honors Program by achieving a score of 29+ ACT or 1280+ SAT and/or a high school grade point average of 3.5 on a 4.0 scale.

### 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 the College of Applied Science and Technology 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 semester credit hours of course work at an accredited college or university.
2. Must have completed the basic foundation courses in the major in which the student plans to coop. This is to be determined by the student's academic advisor and the CAST 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 CAST Dean's Council. This appeal is handled through the College co-op coordinator.

<b>Department of Applied Human Sciences (AHSC)</b>	
<b>P.O. Box 70671</b>	<b>Phone: 423/439-7532</b>
	<b>E-mail: kridler@etsu.edu</b>

Accredited by: Tennessee State Board of Education  
American Dietetic Association  
(Approved)

The Department of Applied Human Sciences offers the bachelor of science degree with a major in Applied Human Sciences and a major in Early Childhood Development.

**B.S. in Applied Human Sciences**

The Applied Human Sciences curriculum is designed to prepare students for professional careers in child and family studies, dietetics and food systems management, interior design, apparel merchandising, interiors merchandising, family and consumer education, and business. A major in Applied Human Sciences offers an area concentration with a minimum of 48 semester credits hours. The following five concentrations are offered:

**Child and Family Studies**

This concentration provides preparation for professional careers in programs that support families and children in their near environment.

**Dietetics/Food Systems Management**

The dietetics emphasis provides the undergraduate preparation required by the American Dietetic Association in preparation for qualifying for Registered Dietitian (R.D.) status through the American Dietetic Association Commission on Dietetic Registration. The food systems management emphasis provides preparation for management positions within commercial, health care, educational, and institutional food service operations. By including prescribed coursework, students may receive School Food Service Supervisor Certification required for positions as certified school food service supervisors in Tennessee.

**Family and Consumer Sciences Education**

This concentration meets the requirements for Vocational Consumer Homemaking certification Grades 5-12 in Tennessee. Occupational Endorsement may be earned in Care and Guidance of Children; Clothing Management, Production and Services; or Food Management, Production and Services.

**Interior Design**

This concentration provides preparation for professional careers related to the design of interior environments.

**Merchandising**

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

**Minor**

A minor in Applied Human Sciences consists of a minimum of 21 semester hours. The minor may be focused within a concentration. Refer to the concentration curriculum for specific course suggestions. The requirements include:

AHSC A minimum of nine semester hours of courses at the 3000-4000 level .....	9
AHSC Applied Human Sciences Electives .....	12
<b>Total Required for Minor .....</b>	<b>21</b>

**Curriculum**

Students seeking the B.S. degree in Applied Human Sciences are required to complete the General Education Core Requirements of the university, the Applied Human Sciences core requirements, Applied Human Sciences courses identified for the chosen concentration, supporting courses from other departments that have been designated as required courses for the chosen concentration, other supporting courses as identified, and electives. Applied Human Sciences students seeking Vocational Consumer Education certification must complete the General Education program for teacher education, professional education requirements, Applied Human Sciences core requirements, Applied Human Sciences courses identified for the chosen concentration, and electives. Students should consult their Applied Human Sciences advisor for specific courses recommended from the university core and/or supporting courses. A minor in a related area may be planned

**APPLIED HUMAN SCIENCES UNDERGRADUATE CURRICULUM**

<b>Department Core Requirements</b>	
AHSC 1110 Family Development .....	3
AHSC 1510 Career Management in Applied Human Sciences .....	3
AHSC 4520 Senior Seminar .....	3
AHSC 4537 Field Studies .....	3
or	
AHSC 4261 Merchandising Internship	
AHSC 4547 Corporate Etiquette .....	3
PSYC 1310 Introduction to Psychology* .....	3
SOAA 1020 Institutions and Society* .....	3
<b>Total Core Requirements .....</b>	<b>21</b>

\*These courses are also part of the university General Education Program.

**CHILD AND FAMILY STUDIES CONCENTRATION**

This concentration provides preparation for professional careers in programs that support families and children in their near environment.

**Child and Family Studies Concentration**

<b>Applied Human Sciences Core Requirements .....</b>		<b>21</b>
AHSC 2000 Preparation for Marriage .....		3
AHSC 2110 Infant/Toddler/Child Development .....		3
AHSC 2120 Foundations of Early Childhood Development .....		3
AHSC 2420 Principles of Nutrition .....		3
AHSC 3110 Parent/Child/School Relations .....		3
AHSC 3120 Computers & Technology in Early childhood .....		1
AHSC 3140 Guiding Young Children .....		3
AHSC 4127 Divorce: Causes and Consequences .....		3
AHSC 4137 Youth Violence .....		3
AHSC 4537 Field Studies .....		3
SOWK 4567 Human Sexuality .....		3
HDAL 2330 Adolescent Psychology .....		3
<b>Total Required For Concentration .....</b>		<b>55</b>



**Child Life Specialist Requirements**

(in addition to above concentration requirements)

HEDU 3750	Medical Terminology .....	3
HDAL 4217	Program Planning for Young Children .....	3
HDAL 3155	Processes for Creative Development .....	3

**Child and Family Studies Suggested Electives**

HDAL 4150	Literacy in Young Children .....	3
PSYC 4100	An Introduction to the Study of Personality .....	3
PSYC 4320	Abnormal Psychology .....	3

**Child and Family Studies Concentration Minor**

AHSC 1110	Family Development .....	3
AHSC 2110	Infant/Toddler/Child Development .....	3
AHSC 3110	Parent/Child/School Relations .....	3
AHSC 4127	Divorce: Causes and Consequences .....	3
AHSC 4537	Field Studies .....	3
AHSC	Electives (Consult with AHSC Advisor before completing 12 credit hours) .....	6
<b>Total Required For Minor .....</b>		<b>21</b>

**Child Emphasis Suggested Electives**

AHSC 2120	Foundations of Early Childhood Development .....	3
AHSC 3140	Guiding Young Children .....	3

**Family Emphasis Suggested Electives**

AHSC	Six hours chosen in consultation with an advisor .....	6
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**Suggested Semester Schedule  
Freshman – Fall Semester**

ENGL 1010	Critical Reading/Expository Writing .....	3
SOAA 1020	Institutions and Society .....	3
SCIENCE	.....	4
CSCI 1100	Using Information Technology.....	3
MATH 1530	Probability and Statistics .....	3
<b>TOTAL .....</b>		<b>16</b>

**Freshman – Spring Semester**

ENGL 1020	Critical Thinking/Argumentation .....	3
PHIL	Identity (WI) .....	3
ARTS & ARTISTIC VISION	.....	3
PSYC 1310	Introduction to Psychology.....	3
SCIENCE	.....	4
<b>TOTAL .....</b>		<b>16</b>

**Sophomore – Fall Semester**

HIST 2010	The United States to 1877 .....	3
AHSC 1510	Career Management (OI) .....	3
PHED	Lifetime .....	1
AHSC 1110	Family Development .....	3
AHSC 2110	Infant/Toddler/Child Development (WI) .....	3
AHSC 2120	Foundations of EC (OI) .....	3
<b>TOTAL .....</b>		<b>16</b>

**Sophomore – Spring Semester**

HIST 2020	The United States Since 1877 .....	3
AHSC 2420	Nutrition .....	3
ENGL	(Heritage) .....	3
AHSC 2000	Preparation for Marriage .....	3
AHSC 3140	Guiding Young Children .....	3
PHED	Fitness .....	1
<b>TOTAL .....</b>		<b>16</b>

**Junior – Fall Semester**

AHSC 3110	Parent/Child/School .....	3
AHSC 3120	Computers and Technology in Early Childhood (TI) .....	1
ENGL 3280	Mythology(HUMT) (WI) .....	3
ELECTIVES	.....	9
<b>TOTAL .....</b>		<b>16</b>

**Junior – Spring Semester**

AHSC 4127	Divorce: Causes .....	3
SOWK 4567	Human Sexuality .....	3
ELECTIVES	.....	10
<b>TOTAL .....</b>		<b>16</b>

**Senior – Fall Semester**

AHSC 4137	Youth Violence .....	3
AHSC 4537	Field Experience .....	3
ELECTIVES	.....	10
<b>TOTAL .....</b>		<b>16</b>

**Senior – Spring Semester**

AHSC 4520	Senior Seminar (WI) .....	3
AHSC 4547	Corporate Etiquette .....	3
ELECTIVES	.....	10
<b>TOTAL .....</b>		<b>16</b>

**DIETETICS/FOOD SYSTEMS MANAGEMENT  
CONCENTRATION DIETETICS EMPHASIS**

Students who complete the dietetic emphasis are issued a "Verification Statement" by the director of the Didactic Program in Dietetics (DPD). This statement indicates the student is qualified to apply for an American Dietetic Association accredited internship and/or an American Dietetic Association internship leading toward eligibility to take the national Registered Dietitian (R.D.) examination.

**Dietetics Emphasis\***

<b>Applied Human Sciences Core Requirements .....</b>		<b>21</b>
AHSC 1410	Food Selection and Preparation .....	4
AHSC 2420	Principles of Nutrition .....	3
AHSC 3420	Nutrition Throughout the Lifecycle .....	3
AHSC 3430	Community Nutrition .....	3
AHSC 3460	Experimental Food Science .....	4
AHSC 3465	Human Nutrition and Metabolism .....	3
AHSC 4417	Food Systems Operations .....	3
AHSC 4427	Diet in Disease (I) .....	3
AHSC 4437	Diet in Disease (II) .....	3
AHSC 4447	Advanced Nutrition .....	3
AHSC 4467	Quantity Food Procurement and Production .....	4
AHSC 4487	Nutrition and Disease Prevention .....	3
AHSC 4497	Administration of Food Service Operations .....	4
HSCI 2230-31	Introduction to Microbiology .....	4
HSCI 3020	Human Physiology .....	4
AHSC 4957	Special Topics .....	4
MGMT 3000	Organizational Management .....	3
MGMT 4510	Human Resources Management .....	3
ENGL 3120	Preprofessional Writing or	
ENTC 3030	Technical Communication .....	3
HDAL 3310	Educational Psychology .....	3
SPCH 2300	Public Speaking .....	3
CHEM 1320/21	Organic and Biochemistry .....	4
<b>Total Required For Emphasis .....</b>		<b>95</b>

\*American Dietetic Association requires from General Education Core: CHEM 1110/11, 1120/21, ECON 2210, MATH 1530, and CSCI 1100.

**Suggested Semester Schedule**

**Freshman – Fall Semester**

ENGL 1010	Critical Reading/Expository Writing .....	3
HIST 2010	The United States to 1877 .....	3
AHSC 1510	Career Management in AHSC .....	3
SOAA 1020	Introduction to Sociology .....	3
AHSC 1110	Family Development .....	3
PHED	Physical Education .....	1
<b>TOTAL .....</b>		<b>16</b>

**Freshman – Spring Semester**

ENGL 1020	Critical Thinking/Argumentation .....	3
HIST 2020	The United States Since 1877 .....	3
CSCI 1100	Using Information Technology.....	3
MATH 1530	Probability and Statistics .....	3
PSYC 1310	Introduction to Psychology.....	3
SPCH 2300	Public Speaking .....	3
<b>TOTAL .....</b>		<b>18</b>

**Sophomore – Fall Semester**

CHEM 1110/1111	General Chemistry .....	4
AHSC 1410	Food Selection and Preparation .....	4
ENGL 2XXX	Literature Core Course .....	3
HSCI 2230/2231	Introduction to Microbiology .....	4
PHED	Physical Education .....	1
<b>TOTAL .....</b>		<b>16</b>

**Sophomore – Spring Semester**

AHSC 3460	Experiment al Food Science .....	4
CHEM 1120	General Chemistry II .....	4
AHSC 2420	Principles of Nutrition .....	3
ECON 2210	Principles of Economics .....	3
ENGL 3120	Preprofessional Writing OR .....	3
ENTC 3030	Technical Communication .....	
<b>TOTAL</b>	<b>.....</b>	<b>17</b>

**Junior – Fall Semester**

BIOL 3000/3001	Introduction to Biochemistry .....	4
ARTS & ARTISTIC VISION	.....	3
HSCI 3020	Human Physiology .....	4
AHSC 4497	Administration of Food Service Organizations .....	4
AHSC 3420	Nutrition throughout the Lifecycle .....	3
<b>TOTAL</b>	<b>.....</b>	<b>18</b>

**Junior – Spring Semester**

AHSC 4417	Food Systems Operations .....	3
AHSC 3430	Community Nutrition .....	3
AHSC 4547	Corporate Etiquette .....	3
MGMT 3000	Organizational Management .....	3
Identity/Ethics/Social Responsibility	.....	3
AHSC 3465	Human Nutrition and Metabolism .....	3
<b>TOTAL</b>	<b>.....</b>	<b>18</b>

**Summer Semester**

AHSC 4537	Field Studies .....	3
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**Senior - Fall Semester**

AHSC 4427	Diet and Disease I .....	3
HDAL 3310	Educational Psychology.....	3
AHSC 4520	Senior Seminar .....	3
AHSC 4447	Advanced Nutrition .....	3
HUMANITIES ELECTIVE	.....	3
<b>TOTAL</b>	<b>.....</b>	<b>15</b>

**Senior - Spring Semester**

AHSC 4437	Diet and Disease II .....	3
MGMT 4510	Human Resource Management .....	3
AHSC 4467	Quantity Food Procurement and Production .....	4
AHSC 4487	Nutrition and Disease Prevention .....	3
ELECTIVE	.....	3
<b>TOTAL</b>	<b>.....</b>	<b>16</b>

**Dietetics Emphasis Minor**

AHSC 1410	Food Selection and Preparation .....	4
AHSC 2420	Principles of Nutrition .....	3
AHSC 3430	Community Nutrition .....	3
AHSC 4497	Administration of Food Service Organizations ...	4
AHSC 3465	Human Nutrition and Metabolism* .....	3
AHSC 4487	Nutrition and Disease Prevention* .....	3
AHSC 4447	Advanced Nutrition* .....	3
<b>Total Required For Minor</b>	<b>.....</b>	<b>23</b>

\*Note required prerequisites!

**DIETETICS/FOOD SYSTEMS MANAGEMENT  
CONCENTRATION  
FOOD SYSTEMS MANAGEMENT EMPHASIS**

Majors completing this concentration are qualified for employment in the area of food supervision and/or management and can meet the requirements necessary for positions as certified School Food Service Supervisors in Tennessee.

**Food Systems Management Emphasis\*\***

<b>Applied Human Sciences Core Requirements</b>	<b>.....</b>	<b>21</b>
AHSC 1410	Food Selection and Preparation .....	4
AHSC 2420	Principles of Nutrition* .....	3
AHSC 2620	Design for Human Behavior .....	3
AHSC 3430	Community Nutrition* .....	3
AHSC 4497	Administration of Food Service Organizations* .....	4
AHSC 3460	Experimental Food Science .....	4
AHSC 4417	Food Systems Operation* .....	3
AHSC 4467	Quantity Food Procurement & Production* ..	4
AHSC 4537	Field Studies .....	3
AHSC 4957/5957	Special Topics in Applied Human Science ...	3
<b>Total required for emphasis</b>	<b>.....</b>	<b>55</b>

**Required Supporting Courses**

CHEM 1110-11	General Chemistry I .....	4
CHEM 1120-21	General Chemistry II .....	4
ACCT 2010	Principles of Accounting I* .....	3
ACCT 2020	Principles of Accounting II .....	3
ECON 2210	Principles of Economics I .....	3
ECON 2220	Principles of Economics II .....	3
MGMT 3000	Organizational Management .....	3
MGMT 4510	Human Resources Management .....	3
MKTG 3200	Principles of Marketing .....	3
MKTG 3202	Consumer Behavior .....	3
HSCI 2230/31	Introduction to Microbiology .....	4
ENVH 4607	Food Sanitation Principles .....	3
ENGL 3120	Preprofessional Writing or .....	
ENTC 3030	Technical Communication .....	3
SPCH 2300	Public Speaking .....	3
<b>Total Required Supporting Courses</b>	<b>.....</b>	<b>45</b>
<b>Total Required For Emphasis</b>	<b>.....</b>	<b>100</b>

\*Required for School Food Service Supervisor certification: ACCT 2010. A four-hour field study must be completed under a certified School Food Service Supervisor.

**Suggested Semester Schedule**

**Freshman - Fall Semester**

ENGL 1010	Critical Reading/Expository Writing .....	3
AHSC 1410	Food Selection and Preparation .....	4
AHSC 1510	Career Management in AHSC .....	3
SOAA 1020	Introduction to Sociology.....	3
AHSC 1110	Family Development .....	3
PHED	PE .....	1
<b>TOTAL</b>	<b>.....</b>	<b>17</b>

**Freshman - Spring Semester**

ENGL 1020	Critical Thinking/Argumentation .....	3
HIST 2010	The United States to 1877 .....	3
CSCI 1100	Using Informational Technology .....	3
PSYC 1310	Introduction to Psychology.....	3
*MATH 1820	Calculus for Business .....	3
PHED	PE .....	1
<b>TOTAL</b>	<b>.....</b>	<b>16</b>

\* May need to take MATH 1810 Analysis for Business as a Prerequisite.

**Sophomore - Fall Semester**

CHEM 1110/11	General Chemistry .....	4
HIST 2020	The United States Since 1877 .....	3
ENGL 2XXX	Literature Core Course .....	3
HSCI 2230/31	Introduction to Microbiology .....	4
AHSC 2620	Design for Human Behavior .....	3
<b>TOTAL</b>	<b>.....</b>	<b>17</b>

**Sophomore - Spring Semester**

SPCH 2300	Public Speaking .....	3
CHEM 1120/21	General Chemistry II .....	4
AHSC 2420	Principles of Nutrition .....	3
ECON 2210	Principles of Economics I .....	3
ENGL 3120	Pre-Professional Writing or .....	3
ENTC 3030	Technical Communication .....	3
<b>TOTAL</b>	<b>.....</b>	<b>16</b>

**Junior - Fall Semester**

ACCT 2010	Principles of Accounting I .....	3
ARTS & ARTISTIC VISION	.....	3
ECON 2220	Principles of Economics II .....	3
AHSC 4497	Administration of Food Service Organizations .....	4
Identity/Ethics/Social Responsibility	.....	3
<b>TOTAL</b>	<b>.....</b>	<b>16</b>

**Junior - Spring Semester**

AHSC 4467	Quantity Food Procurement and Preparation .....	4
AHSC 3430	Community Nutrition .....	3
ACCT 2020	Principles of Accounting II .....	3
MKTG 3200	Principles of Marketing .....	3
AHSC 3460	Experimental Food Science .....	4
<b>TOTAL</b>	<b>.....</b>	<b>17</b>

**Summer Semester**

AHSC 4537	Field Studies .....	3
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**Senior - Fall Semester**

MKTG 3202	Consumer Behavior .....	3
AHSC 4480	Food Service Management Internship .....	3
AHSC 4520	Senior Seminar .....	3
MGMT 3000	Organizational Management .....	3
ENVT 4607	Food Sanitation Principles .....	3
HUMANITIES	ELECTIVE .....	3
<b>TOTAL</b>	.....	<b>18</b>

**Senior - Spring Semester**

MGMT 4510	Human Resource Management .....	3
AHSC 4547	Corporate Etiquette .....	3
AHSC 4417	Food Systems Operations .....	3
ELECTIVE	.....	3
ELECTIVE	.....	3
<b>TOTAL</b>	.....	<b>15</b>

**Food Systems Management Emphasis Minor**

AHSC 1410	Food Selection and Preparation .....	4
AHSC 2420	Principles of Nutrition .....	3
AHSC 4497	Administration of Food Service Organizations .....	4
AHSC 3460	Experimental Food Science .....	4
AHSC 4417	Food Systems Operations .....	3
AHSC 4467	Quantity Food Procurement and Production .....	4
<b>Total Required For Minor</b>	.....	<b>22</b>

\*\*Required from the general education core: CHEM 1110/11 and CHEM 1320/21.

**FAMILY AND CONSUMER SCIENCES EDUCATION**

Requirements for teacher education can be found in the College of Education section of this catalog. Those desiring certification should consult a departmental advisor.

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 Education Student Services, Room 321, Warf-Pickel Hall. The Declaration of Intent should be filed before 30 semester 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.

**General Education Core**

Students must complete the ETSU general education core of 41-44 semester hours as adopted by the university. When meeting the General Education Requirements, students must take a minimum of three of the following six courses:

ENGL 2330	World Literature .....	3
PEXS 3500	Dance as a Human Experience .....	3
WMST 2010	Introduction to Women's Studies .....	3
GEOG 1012	Introduction to Cultural Geography .....	3
SOAA 1240	Introduction to Cultural Anthropology .....	3
HUMT 2320	Introduction to Humanities II .....	3

Additionally, when meeting the General Education Requirements, students must take a minimum of one of the following three courses:

PHIL 1030	Self and World .....	3
PHIL 2020	Values and Society .....	3
PHIL 2210	Introduction to the Study of Religion .....	3

**Admission:** Any student who chooses to pursue family and consumer sciences education for licensure in grades 5-12 must apply for admission to the teacher education program. The requirements for admission to the program are as follows:

1. Declaration of Intent form and Program of Study Form
2. PPST, ACT or SAT minimal test scores

**3. 2.5 GPA**

4. Completed courses EDFN 2100 and EDFN 2300 with a grade of 'C' or better.
5. If a student has met all of the above requirements for teacher education, then student must complete the application for the Board to enter teacher education program.
6. Upon completion of successful interview with College of Education Admission Board, student will be admitted to the teacher education program.
7. After admission to Teacher Education, the candidate should complete the approved program of study under the direction of the departmental advisor and the College of Education advisor in order to ensure that both licensure and degree requirements are met. The candidate should apply for a student teaching placement the semester prior to the term in which student teaching is planned. All admission criteria must have been met and maintained. A 2.5 minimum grade point average must be demonstrated overall, in the major, and in the professional education courses. Further, no grade less than a 'C' can be accepted in the licensure area or in professional education. Student teaching placements will be planned by the College of Education in consultation with the candidate's program advisor.

**Family and Consumer Sciences Education Concentration**

<b>Applied Human Sciences Core Requirements</b>	<b>21</b>	
AHSC 1410	Food Selection and Preparation .....	4
AHSC 1620	Introduction to Contemporary Interiors .....	3
AHSC 2110	Infant/Toddler/Child Development .....	3
AHSC 2205	Principles of Clothing .....	4
AHSC 2220	Consumer Clothing Concerns .....	3
AHSC 2420	Principles of Nutrition .....	3
AHSC 1621	Design Communications: Studio I .....	3
AHSC 3110	Parent/Child/School Relations .....	3
AHSC 3220	Textiles (I) .....	3
AHSC 3221	Textiles (II) .....	3
AHSC 3460	Experimental Food Science .....	4
AHSC 4330	Management of Family's Material Resources .....	3
<b>Total Required For Concentration</b>	<b>60</b>	

**Professional Education Core**

EDFN 2100	Orientation to the Profession of Education .....	1
EDFN 2300	Foundations of Teaching .....	3
EDFN 3301	Issues in Education .....	3
HDAL 2330	Adolescent Psychology .....	3
HDAL 3310	Educational Psychology .....	3
SPED 3320	Exceptional Learners in Schools & Communities .....	3
MEDA 3570	Educational Technology .....	3
READ 4437	Reading in the Middle/Secondary School .....	3
AHSC 4717	Vocational Family and Consumer Sciences Curriculum .....	3
AHSC 4727	Methods for Vocational Family and Consumer Sciences .....	3
CUAI 4580	Student Teaching .....	12
EDFN 4581	Seminar in Education .....	3
<b>Total</b>	.....	<b>43</b>

**Suggested Semester Schedule**

**Freshman - Fall Semester**

ENGL 1010	Critical Reading/Expository Writing .....	3
SCIENCE *	.....	4
AHSC 1510	Career Management in AHSC .....	3
AHSC 1410	Food Selection & Preparation .....	4
CSCI 1100	Using Information Technology .....	3
<b>TOTAL</b>	.....	<b>17</b>

CHEM 1110 /1111 and CHEM 1120/1121.

**Freshman - Spring Semester**

ENGL 1020	Critical Thinking/Argumentation .....	3
SCIENCE	.....	4
SOAA 1020	Introduction to Sociology .....	3
AHSC 1110	Family Development .....	3
HIST 2010	The United States to 1877 .....	3
<b>TOTAL</b>	.....	<b>16</b>

**Sophomore - Fall Semester**

HIST 2020	The United States Since 1877 .....	3
AHSC 2220	Consumer Clothing Concerns .....	3
AHSC 1620	Introduction to Contemporary Interiors .....	3
EDFN 2100	Orientation to the Profession of Education .....	1
EDFN 2300	Foundations of Teaching .....	3
AHSC 2205	Principles of Clothing .....	4
<b>TOTAL</b>	.....	<b>17</b>

**Sophomore - Spring Semester**

ENGL 2330	World Literature .....	3
PSYC 1310	Introduction to Psychology .....	3
AHSC 2110	Infant/Toddler/Child Development .....	3
AHSC 1621	Communication: Studio I .....	3
HDAL 2330	Adolescent Psychology .....	3
PHED	.....	1
<b>TOTAL</b>	.....	<b>16</b>

**Junior - Fall Semester**

AHSC 3220	Textiles I .....	3
MATH 1530, 1820, 1840, or 1910	.....	3
HUMT 2320 or PHED 3500	.....	1-3
AHSC 2420	Principles of Nutrition .....	3
EDFN 3301	Issues in Education .....	3
PHED	.....	1
<b>TOTAL</b>	.....	<b>14-16</b>

**Junior - Spring Semester**

AHSC 3460	Experimental Food Science .....	4
AHSC 3221	Textiles II .....	3
PHIL 2020 or 2210	.....	3
AHSC 3110	Parent/Child/School Relations .....	3
HDAL 3310	Educational Psychology .....	3
<b>TOTAL</b>	.....	<b>16</b>

**Senior - Fall Semester**

AHSC 4520	Senior Seminar .....	3
AHSC 4330	Management of Family's Material Resources .....	3
SPEd 3320	Exceptional Learners .....	3
AHSC 4717	Vocational FCS Curriculum .....	3
MEDA 3570	Educational Technology .....	3
<b>TOTAL</b>	.....	<b>15</b>

**Senior - Spring Semester**

AHSC 4537	Field Studies .....	3
AHSC 4547	Corporate Etiquette .....	3
AHSC 4727	Methods for Vocational FCS .....	3
READ 4737	Reading Middle/Secondary Schools .....	3
HUMANITIES ELECTIVE	.....	3
<b>TOTAL</b>	.....	<b>15</b>

**Fall of Fifth Year**

CUAI 4580	Directed Student Teaching .....	12
EDFN 4581	Seminar in Education .....	3
<b>TOTAL</b>	.....	<b>15</b>

**OCCUPATIONAL ENDORSEMENTS**

The following areas of endorsements are available:  
 Care and Guidance of Children; Clothing Management, Production and Services; Food Management, Production and Services. See department advisor for program planning.

Care and Guidance of Children	Credit Hours
HDAL 3117 Learning Environments .....	3
AHSC 4537 Field Studies .....	3
AHSC 4737 Occupational Family and Consumer Sciences Programs .....	3
<b>Total</b> .....	<b>9</b>

Clothing Management, Production and Services	Credit Hours
AHSC 3210 Apparel Quality Analysis .....	4
AHSC 4537 Field Studies .....	3
AHSC 4737 Occupational Family and Consumer Sciences Programs .....	3
<b>Total</b> .....	<b>10</b>

**Food Management, Production and Services**

AHSC 4497	Administration of Food Service Organizations ...	4
AHSC 4467	Quantity Food Procurement and Production .....	4
AHSC 4537	Field Studies .....	3
AHSC 4737	Occupational Family and Consumer Sciences Programs .....	3
<b>Total</b> .....	<b>14</b>	

**General Minor in Family and Consumer Sciences Education**

AHSC	A minimum of nine semester hours of courses at the 3000-4000 level .....	9
AHSC	Applied Human Science Electives .....	12
<b>Total Required For Minor</b> .....	<b>21</b>	

**INTERIOR DESIGN CONCENTRATION**

Students who complete 56 credit hours in the Interior Design Concentration, earn a B.S. degree, and complete two years of work experience are able to take the interior design licensing examination.

After 27 (and before 36) credit hours of interior design courses have been completed, the students must notify their major advisor that they would like to submit samples of work completed in each interior design course for review before advancement to courses AHSC 3650 and above. The portfolio of samples are to be submitted to the student's major advisor within eight weeks into the semester following completion of the designated credit hours. A committee of three including the student's major advisor will review and evaluate each portfolio. Students whose work shows evidence of ability to succeed in the interior design field may register for upper level courses. Others will be advised of remedies such as additional lower level coursework and re-submission at a later date or alternative concentrations.

**Interior Design Core Requirements**

AHSC 1620	Introduction to Contemporary Interiors .....	3
AHSC 1621	Design Communication: Studio I .....	3
ARTA 1110	Basic Design (Studio) .....	3
ARTA 1204	Color Theory (Studio) .....	3
ARTA 2071	Weaving (Studio) or	
AHSC 3221	Textiles II .....	3
AHSC 3625	Auto Cad for I.D. .....	3
ENTC 2410	Construction Fundamentals .....	4
ENTC 2420	Residential & Commercial Planning .....	4
AHSC 2611	Kitchen and Bath Planning .....	3
AHSC 2620	Design for Human Behavior .....	3
AHSC 2630	Presentation: Studio II .....	3
AHSC 3610	Historical Interiors or	
ARTA 2020	Art History Survey or	
AHSC 4657	Architectural Study Tour .....	3
AHSC 3615	Space Planning: Studio III .....	3
AHSC 3621	Residential Design & Housing: Studio III .....	3
AHSC 3630	Advanced Lighting .....	3
AHSC 3650	Contract Design .....	3
AHSC 4610	Health Care: Studio IV .....	3
AHSC 4611	Hospitality: Studio V .....	3
AHSC 4615	Professional Practices in ID .....	3
<b>Total Required</b> .....	<b>59</b>	

**Suggested Semester Schedule**

**Freshman - Fall Semester**

AHSC 1620	Introduction to Contemporary Interiors .....	3
ARTA 1110	Basic Design .....	3
AHSC 1510	Career Management .....	3
ENGL 1010	Critical Reading/Expository Writing .....	3
SOAA 1020	Introduction to Sociology .....	3
PHED ELECTIVE	.....	1
<b>TOTAL</b> .....	<b>16</b>	

**Freshman - Spring Semester**

AHSC 1621	Design Communication: Studio I	3
ENGL 1020	Critical Thinking/Argumentation	3
CSCI 1100	Using Informational Technology	3
PHED	ELECTIVE	1
MATH	ELECTIVE	3
ENTC 2410	Construction Fundamentals	4
<b>TOTAL</b>		<b>17</b>

**Sophomore - Fall Semester**

AHSC 2620	Design for Human Behavior	3
PSYC 1310	Introduction to Psychology	3
ARTS & ARTISTIC VISION		3
HUMANITIES ELECTIVE		3
ENGL LITERATURE ELECTIVE		3
ELECTIVE		3
<b>TOTAL</b>		<b>18</b>

**Sophomore - Spring Semester**

AHSC 3610	Historical Interiors (odd yrs.)(or options)	3
HIST 2020	The United States Since 1877	3
Identity, Ethics Elective		3
ENTC 2160	Architectural CAD	3
SCIENCE ELECTIVE		4
PORTFOLIO REVIEW - END OF SEMESTER		16
<b>TOTAL</b>		<b>16</b>

**Junior - Fall Semester**

ARTA 1204	Color Theory	3
AHSC 2630	Presentation Technology: Studio II	3
AHSC 1110	Family Development	3
HIST 2010	The United States to 1877	3
SCIENCE ELECTIVE		4
<b>TOTAL</b>		<b>16</b>

**Junior - Spring Semester**

AHSC 3221	Textiles II or ARTA 2170	3
AHSC 3621	Residential Design & Housing (even years)	3
AHSC 2611	Kitchen & Bath Planning	3
AHSC 3615	Space Planning: Studio II	3
ENTC 2420	Residential & Commercial Planning	4
<b>TOTAL</b>		<b>16</b>

**Senior - Fall Semester**

AHSC 3650	Contract Design	3
AHSC 4610	Health Care: Studio IV	3
AHSC 4615	Professional Practices in Interior Design	3
AHSC 4520	Senior Seminar	3
ELECTIVE		3
<b>TOTAL</b>		<b>15</b>

**Senior - Spring Semester**

AHSC 3630	Advanced Lighting	3
AHSC 4537	Field Studies	3
AHSC 4611	Hospitality: Studio V	3
AHSC 4547	Corporate Etiquette	3
ELECTIVE		3
<b>TOTAL</b>		<b>15</b>

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**

AHSC 1620	Introduction to Contemporary Interiors	3
AHSC 1621	Design Communication: Studio I	3
AHSC 2611	Kitchen and Bath Planning	3
AHSC 2620	Design for Human Behavior	3
AHSC 2630	Presentation: Studio II or	
AHSC 4240	Visual Merchandising	3
AHSC 3610	Historical Interiors or	
AHSC 3221	Textiles (II) or	
AHSC 4657/5657	Architectural Study Tour	3
AHSC 3615	Space Planning	3
<b>Total Credit Hours</b>		<b>21</b>

**MERCHANDISING CONCENTRATION**

All students in the merchandising concentration complete the following courses:

**Merchandising Concentration Core**

<b>Applied Human Sciences Core Requirements</b>	<b>21</b>	
AHSC 3221	Textiles (II)	3
AHSC 4225	Merchandising Planning and Control	3
AHSC 4230	Merchandise Buying	3
AHSC 4240	Visual Merchandising	3
AHSC 4250	Advertising and Promotion	3
ARTA 1140	3-D Design	3
<b>Total Required for Concentration Core</b>	<b>39</b>	

Students in the merchandising concentration must choose an emphasis in either apparel or interior merchandising. The apparel merchandising emphasis prepares students for a variety of career options available in the apparel and textile industries, including retail store management, apparel and textile buying, visual merchandising, advertising and promotion, fashion and image consulting, entrepreneurship, etc. The apparel merchandising emphasis requires the merchandising core, the apparel merchandising emphasis courses, and the support block courses.

**Apparel Merchandising Emphasis**

AHSC 2205	Principles of Clothing	4
AHSC 2220	Consumer Clothing Concerns	3
AHSC 3210	Apparel Quality Analysis	4
AHSC 3220	Textile (I)	3
AHSC 3230	Fashion Fundamentals	3
AHSC 4220	Fashion Merchandising	3
ARTA 1110	2-D Design	3
Electives		5
<b>Total Required for Apparels Emphasis</b>	<b>28</b>	
	(+21 hr. Support Block)	

**Suggested Semester Schedule**

**Freshman - Fall Semester**

ENGL 1010	Critical Reading/Expository Writing	3
SCIENCE*		4
SOAA 1020	Institutions and Society	3
AHSC 1510	Career Management in AHSC	3
AHSC 2220	Consumer Clothing Concentration	3
<b>TOTAL</b>		<b>16</b>

1111 and CHEM 1120/1121

**Freshman - Spring Semester**

ENGL 1020	Critical Thinking/Argumentation	3
SCIENCE*		4
AHSC 1110	Family Development	3
PSYC 1310	Introduction to Psychology	3
CSCI 1100	Using Information Technology	3
<b>TOTAL</b>		<b>16</b>

**Sophomore - Fall Semester**

ENGL 2130	American Literature OR	3
ENGL 2210	British Literature OR	
ENGL 2330	World Literature OR	
ENGL 2430	European Literature	
HIST 2010	The United States to 1877	3
MATH 1530, 1820, 1840, OR 1910		3
ARTA 1110	2-D Design	3
AHSC 2205	Principles of Clothing	4
<b>TOTAL</b>		<b>16</b>

**Sophomore - Spring Semester**

HIST 2020	The United States Since 1877	3
ARTA 1140	3-D Design	3
SUPPORT BLOCK		3
ELECTIVE		2-3
AHSC 3210	Apparel Quality Analysis	4
PE/MILSCI/BAND		1
<b>TOTAL</b>		<b>16-17</b>

**Junior - Fall Semester**

Select one course from Arts and Artistic Vision .....	3
SUPPORT BLOCK .....	3
SUPPORT BLOCK .....	3
AHSC 3220 Textiles (I) .....	3
AHSC 3230 Fashion Fundamentals .....	3
PE/MILSCI/BAND .....	1
<b>TOTAL</b> .....	<b>16</b>

**Junior - Spring Semester**

Select one WI course from Identity, Ethics, and Social Responsibility .....	3
SUPPORT BLOCK .....	3
AHSC 3221 Textiles (II) .....	3
AHSC 4220 Fashion Merchandising .....	3
HUMANITIES ELECTIVE .....	3
AHSC 4547 Corporate Etiquette .....	3
<b>TOTAL</b> .....	<b>18</b>

**Senior - Fall Semester**

SUPPORT BLOCK .....	3
SUPPORT BLOCK .....	3
AHSC 4225 Merchandising Planning and Control .....	3
AHSC 4520 Senior Seminar .....	3
AHSC 4250 Advertising and Promotion .....	3
<b>TOTAL</b> .....	<b>15</b>

**Senior - Spring Semester**

SUPPORT BLOCK .....	3
AHSC 4230 Merchandise Buying .....	3
AHSC 4240 Visual Merchandising .....	3
AHSC 4260 Merchandising Seminar .....	3
AHSC 4261 Merchandising Internship .....	3
<b>TOTAL</b> .....	<b>15</b>

Apparel merchandising emphasis students are required to take 21 hours in support courses. These support courses can be chosen from a marketing block, art block, or communication block, depending on the student's career objective. Students are encouraged to discuss their choice with their advisor. The following courses are required in each block of support courses:

**Marketing Block**

ECON 2210 Principles of Economics (I) .....	3
ECON 2220 Principles of Economics (II) .....	3
ACCT 2010 Principles of Accounting (I) .....	3
MKTG 3200 Principles of Marketing .....	3
MKTG 3202 Consumer Behavior .....	3
MKTG 3310 Business Logistics .....	3
MKTG 3740 Sales Force Management .....	3
<b>Total Support Block Required</b> .....	<b>21</b>

**Art Block**

ARTA 1204 Color Theory .....	3
ARTA 2120 Basic Figure Drawing .....	3
ARTA 2220 Basic Photography .....	3
*ARTA Electives .....	12
<b>Total Support Block Required</b> .....	<b>21</b>

\*Four courses in an art concentration (photography, illustration, fiber) must be approved by the chair of the Department of Art and Design and the AHSC advisor prior to enrollment.

**Communications Block**

MCOM 1030 Introduction to Mass Communication .....	3
**MCOM Electives .....	18
<b>Total Support Block Required</b> .....	<b>21</b>

\*Six courses in mass communications concentration (advertising, journalism, public relations) selected in consultation with the Department of Communication chair and the AHSC advisor and formally approved by the mass communications faculty, are required. Approval for the total of 21 semester hours must be obtained before 15 hours of coursework in mass communications have been completed.

**Apparel Merchandising Concentration Minor**

AHSC 2220 Consumer Clothing Concerns .....	3
AHSC 3220 Textiles (I) .....	3
AHSC 3230 Fashion Fundamentals .....	3
AHSC 4220 Fashion Merchandising .....	3
AHSC Electives*(at 3000-4000 level) .....	9
<b>Total Required For Minor</b> .....	<b>21</b>

\*Suggested electives include:

AHSC 3221 Textiles (II)	
AHSC 4225 Merchandising Planning & Control	
AHSC 4230 Merchandise Buying	
AHSC 4250 Fashion Advertising and Promotion	
AHSC 4257 Merchandising Study Tour of New York City	
AHSC 4260 Merchandising Seminar	
ASHC 4261 Merchandising Internship	

However, electives may be selected from any of the Apparel Merchandising courses, provided the prerequisites have been met.

The interiors merchandising emphasis prepares a student for a variety of careers in retail store management, sales representation, furniture, equipment, and lighting, visual merchandising, etc. The interiors merchandising emphasis requires the merchandising core, the interiors merchandising emphasis courses, and the support block courses.

**Interiors Merchandising Emphasis**

AHSC 1620 Introduction to Contemporary Interiors .....	3
AHSC 1621 Design Communications: Studio I .....	3
AHSC 2611 Kitchen and Bath Planning .....	3
AHSC 2620 Design for Human Behavior .....	3
AHSC 2630 Presentation Techniques .....	3
AHSC 3610 Historical Interiors .....	3
AHSC 3621 Residential Design and Housing .....	3
AHSC 4260 Merchandising Seminar .....	3
Electives .....	4
<b>Total Required for Interiors Emphasis</b> .....	<b>28</b>
(+21 hr. Support Block)	

**Suggested Semester Schedule**

**Freshman - Fall Semester**

ENGL 1010 Critical Reading/Expository Writing .....	3
SCIENCE * .....	4
SOAA 1020 Introduction to Sociology .....	3
AHSC 1510 Career Management in AHSC .....	3
AHSC 1620 Introduction to Contemporary Interiors .....	3
<b>TOTAL</b> .....	<b>16</b>

CHEM 1020/1021

**Freshman - Spring Semester**

ENGL 1020 Critical Thinking/Argumentation .....	3
SCIENCE * .....	4
AHSC 1110 Family Development .....	3
PSYC 1310 Introduction to Psychology .....	3
CSCI 1100 Using Information Technology .....	3
<b>TOTAL</b> .....	<b>16</b>

**Sophomore - Fall Semester**

ENGL 2130 American Literature OR .....	3
ENGL 2210 British Literature OR .....	
ENGL 2330 World Literature OR .....	
ENGL 2430 European Literature .....	
HIST 2010 The United States to 1877 .....	3
MATH 1530, 1820, 1840, or 1910 .....	3
AHSC 2620 Design for Human Behavior .....	3
AHSC 2630 Presentation Technology .....	3
AHSC 1621 Design Communications Studio I .....	3
<b>TOTAL</b> .....	<b>18</b>

**Sophomore - Spring Semester**

HIST 2020 The United States Since 1877 .....	3
ARTA 1140 3-D Design .....	3
MARKETING BLOCK .....	3
ELECTIVE .....	2-3
AHSC 2611 Kitchen and Bath Planning .....	3
PE/MILSCI/BAND .....	1
<b>TOTAL</b> .....	<b>15-16</b>

**Junior - Fall Semester**

Select one course from Arts and Artistic Vision .....	3
MARKETING BLOCK .....	3
MARKETING BLOCK .....	3
AHSC 3621 Residential Design & Housing .....	3
PE/MILSCI/BAND .....	1
ELECTIVE .....	2-3
<b>TOTAL</b> .....	<b>15-16</b>

**Junior - Spring Semester**

Select one WI course from Identity, Ethics, & Social Responsibility .....	3
MARKETING BLOCK .....	3
AHSC 3221 Textiles (I) .....	3
AHSC 3620 Historical Interiors .....	3
HUMANITIES ELECTIVE .....	3
AHSC 4547 Corporate Etiquette .....	3
<b>TOTAL</b> .....	<b>18</b>

**Senior - Fall Semester**

MARKETING BLOCK .....	3
MARKETING BLOCK .....	3
AHSC 4225 Merchandise Planning and Control .....	3
AHSC 4520 Senior Seminar .....	3
AHSC 4250 Advertising and Promotion .....	3
<b>TOTAL</b> .....	<b>15</b>

**Senior - Spring Semester**

MARKETING BLOCK .....	3
AHSC 4230 Merchandise Buying .....	3
AHSC 4240 Visual Merchandising .....	3
AHSC 4260 Merchandising Seminar .....	3
AHSC 4261 Merchandising Internship .....	3
<b>TOTAL</b> .....	<b>15</b>

Interiors merchandising students are required to complete a Support Block of 21 hours of marketing courses as follows:

**Marketing Support Block**

ECON 2210 Principles of Economics (I) .....	3
ECON 2220 Principles of Economics (II) .....	3
ACCT 2010 Principles of Accounting (I) .....	3
MKTG 3200 Principles of Marketing .....	3
MKTG 3202 Consumer Behavior .....	3
MKTG 3310 Business Logistics .....	3
MKTG 3740 Sales Force Management .....	3
<b>Total Support Block Required</b> .....	<b>21</b>

**Grade Requirements**

In order to graduate, a computer and information sciences major must attain:

1. an overall GPA of 2.5 or better; and
2. a GPA of 2.5 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 and 1020.

All concentrations must complete 128 credit hours, including the ETSU General Education Requirements, the Common Computer and Information Sciences Core, and the Concentration Specific Courses.

**MAJOR REQUIREMENTS**

**Common Core: All CSCI Concentrations .....(31 credits)**

CSCI 1510 Student in University* .....	3
CSCI 2150 Computer Organization .....	4
CSCI 3220 Introduction to Database Systems .....	3
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 .....	8
(See list at end of section for approved courses)	
MATH 1530 Probability & Statistics .....	3
MATH 1531 Statistical Computing .....	1

\*For 1st semester freshman only. If not taken or passed, another approved CSCI elective must be taken in its place.

**Computer Science Concentration .....(56 credits)**

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 Computer Science Elective Categories; must include at least one course from category A below and at least one course from either category B or category C; required courses may <u>not</u> count as electives.)	
MATH 1910 Calculus I .....	4
MATH 1920 Calculus II .....	4
MATH 2010 Linear Algebra .....	3
MATH 2710 Discrete Structures .....	3
Additional Science Credits	
(See list at end of section for approved courses) .....	4

**Suggested Course Sequence for Computer Science Concentration**

**Freshman - Fall Semester**

CSCI 1100 Using Information Technology .....	3
CSCI 1510 Student in University .....	3
CSCI 1250 Introduction to Computer Science I .....	4
ENGL 1010 Critical Reading & Expository Writing .....	3
MATH 1910 Calculus I .....	4
PHED 1XXX Fitness Activity .....	1
<b>TOTAL</b> .....	<b>18</b>

**Freshman - Spring Semester**

CSCI 1260 Introduction to Computer Science II .....	4
CSCI 2150 Computer Organization .....	4
MATH 1920 Calculus II .....	4
ENGL 1020 Critical Thinking & Argumentation .....	3
PHED 2XXX Lifetime Activity .....	1
<b>TOTAL</b> .....	<b>16</b>

**Department of Computer and Information Sciences (CSCI)**

P.O. Box 70711

Phone: 423/439-5332

E-mail: counter@etsu.edu

The computer science concentration is accredited by the Computer Science Accreditation Commission (CSAC) of the Computer Science Accreditation Board (CSAB).

**Major**

The department offers a bachelor of science degree with three areas of concentration: Computer Science, Information Systems Science, and Information Technology. Majors may choose a minor, however, it is not required.

**Computer Science (CS) Concentration**

The CS 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, criminal justice, geography/geology/geomatics, management, and urban/regional studies, 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.

**Sophomore - Fall Semester**

CSCI 2210	Data Structures	4
CSCI 2160	Assembly Language Prog	4
MATH 2710	Discrete Structure	3
HIST 2010	The United States to 1877	3
Identity, Ethics & Social Responsibility		3
<b>TOTAL</b>		<b>17</b>

**Sophomore - Spring Semester**

CSCI 2230	File Processing	4
CSCI 3400	Network Fundamentals	3
HIST 2020	The United States Since 1877	3
MATH 1530	Probability and Statistics	3
MATH 1531	Statistical Computing	1
HERITAGE OPTION		3
<b>TOTAL</b>		<b>17</b>

**Junior - Fall Semester**

CSCI 3220	Introduction to Database Systems	3
CSCI 3250	Software Engineering I	3
MATH 2010	Linear Algebra	3
NATURAL SCIENCE		4
Institutions & Society		3
<b>TOTAL</b>		<b>16</b>

**Junior - Spring Semester**

CSCI 3350	Software Engineering II	3
CSCI MAJOR ELECTIVE		3
NATURAL SCIENCE		4
Institutions & Society		3
Arts & Artistic Vision		3
<b>TOTAL</b>		<b>16</b>

**Senior - Fall Semester**

CSCI 4717	Computer Architecture	3
CSCI MAJOR ELECTIVE		3
CSCI MAJOR ELECTIVE		3
NATURAL SCIENCE		4
FREE ELECTIVE		3
<b>TOTAL</b>		<b>16</b>

**Senior - Spring Semester**

CSCI 4727	Operating Systems	3
CSCI MAJOR ELECTIVE		3
HUMANITIES OPTION		3
FREE ELECTIVE		3
FREE ELECTIVE		1-3
<b>TOTAL</b>		<b>13-15</b>

Total Credit Hours for B.S. In Computer Science Concentration ..... 128-130

**Information Systems Science Concentration ..... (51 credits)**

CSCI 1250	Introduction to Computer Science I	4
CSCI 1260	Introduction to Computer Science II	4
CSCI 1710	WWW - Design & Creation	3
CSCI 2210	Data Structures	4
CSCI 2235	Introduction to Database Systems	3
CSCI 2910	Client & Server Side Programming	4
CSCI 4227	Advanced Database Systems	3
CSCI 4417	System Administration	3
Two CSCI major electives*		6

\*Must include at least one course from Category A. You may not count required courses as electives.

**Other major requirements ..... (28-29 credits)**

MATH 1840	Analytical Geometry & Differential Calculus	
or		
MATH 1910	Calculus I	3-4
MATH 2710	Discrete Structures	3

**Information Systems Emphasis ..... (18 credits)**

Complete one of the following five emphases:

**Accountancy Emphasis**

ACCT 2010	Principles of Accounting I	3
ACCT 2020	Principles of Accounting II	3
ACCT 3010	Financial Accounting I	3
ACCT 3020	Financial Accounting II	3
ACCT 3110	Management Accountancy	3
ACCT 4310	Accounting Information	3

**Criminal Justice & Criminology Emphasis**

CJCR 1100	Introduction to Criminal Justice	3
CJCR 2540	Criminal Law	3
CJCR 3310	Criminology	3
Three approved CJCR electives		9

**Management Emphasis**

ECON 2210*	Principles of Economics	3
ACCT 2010	Principles of Accounting I	3
MGMT 3000	Organizational Behavior and Management	3
MGMT 4010	Advanced Organizational Behavior	3
MGMT 4020	Organizational Theory and Development	3
MGMT 4210	Systems Analysis and Design	3
One approved MGMT elective		3

**Geography, Geology & Geomatics Emphasis**

GEOG 1012*	Introduction to Cultural Geography	3
GEOG 1110*	Earth Science: Weather and Climate OR	
GEOG 1120	Earth Science: Landforms and Processes	4
GEOG 4217	Geographic Information Systems	3
GEOG 4317	Advanced Geographic Information Systems	3
and three courses selected from the following:		
GEOG 3210	Cartography	3
GEOG 4017	Advanced Cartography	3
GEOG 4107	Urban Geography and Planning	3
GEOG 4117	Resource Management	3
GEOG 4227	Remote Sensing	3
GEOG 4237	Advanced Remote Sensing	3

**Urban and Regional Studies Emphasis**

ECON 1050*	Economics and Society	3
SOAA 3150	Urbanization	3
ECON 4447	Urban and Regional Economics	3
URBS 3100	Introduction to Urban/Regional Planning	3
and three courses selected from the following:		
GEOG 3210	Cartography	3
GEOG 4017	Advanced Cartography	3
GEOG 4107	Urban Geography and Planning	3
GEOG 4117	Resource Management	3
GEOG 4227	Remote Sensing	3
GEOG 4237	Advanced Remote Sensing	3

\*May be taken as part of General Education Core Requirements.

**Suggested Course Sequence for Information Systems Science Concentration**

**Freshman - Fall Semester**

CSCI 1100	Using Information Technology	3
CSCI 1510	Student in University	3
CSCI 1250	Introduction to Computer Science I	4
ENGL 1010	Critical Reading & Expository Writing	3
MATH 1840	Analytic Geometry & Integral Calculus OR	
MATH 1910	Calculus I	3-4
PHED 1XXX	Fitness Activity	1
<b>TOTAL</b>		<b>17-18</b>

**Freshman - Spring Semester**

CSCI 1260	Introduction to Computer Science II	4
CSCI 2150	Computer Organization	4
ENGL 1020	Critical Thinking & Argumentation	3
MATH 1530	Probability and Statistics	3
MATH 1531	Statistical Computing	1
PHED 2xx	Lifetime Activity	1
<b>TOTAL</b>		<b>16</b>

**Sophomore - Fall Semester**

CSCI 2210	Data Structures	4
CSCI 1710	World Wide Web - Design	3
MATH 2710	Discrete Structure	3
HIST 2010	The United States to 1877	3
Identity, Ethics, Social Responsibility		3
<b>TOTAL</b>		<b>16</b>



**Sophomore - Spring Semester**

CSCI 2235	Introduction to Unix	1
CSCI 3400	Network Fundamentals	3
CSCI 2910	Client & Server Side Programming	3
HIST 2020	U. S. Since 1877	3
Institutions and Society		3
Heritage (Literature)		3
<b>TOTAL</b>		<b>16</b>

**Junior - Fall Semester**

CSCI 3220	Introduction to Database Systems	3
CSCI 3250	Software Engineering I	3
Natural Science (first of 2-semester sequence)		4
Arts and Artistic Vision		3
Course from Information Systems Area of Emphasis		3
<b>TOTAL</b>		<b>16</b>

**Junior - Spring Semester**

CSCI 3350	Software Engineering II	3
CSCI 4227	Advanced Database Systems	3
Natural Science (second of 2-semester sequence)		4
Institutions & Society		3
Course from Information Systems Area of Emphasis		3
<b>TOTAL</b>		<b>16</b>

**Senior - Fall Semester**

CSCI 4417	System Administration	3
CSCI major elective		3
Course from Information Systems Area of Emphasis		3
Course from Information Systems Area of Emphasis		3
Free elective		3-4
<b>TOTAL</b>		<b>15-16</b>

**Senior - Spring Semester**

CSCI major elective		3
Humanities elective		3
Course from Information Systems Area of Emphasis		3
Course from Information Systems Area of Emphasis		3
Free elective		3
<b>TOTAL</b>		<b>15</b>

Total Credit hours for Information Systems Science Concentration ..... 128

**Information Technology Concentration .....(40 credits)**

CSCI 1710	World Wide Web – Design and Creation	3
CSCI 1800	Visual Programming Design with Applications	3
CSCI 2235	Intro to Unix	1
CSCI 2800	Visual Programming – Advanced Concepts	4
CSCI 2910	Client and Server Side Program	4
CSCI 4417	System Administration	3
CSCI 4227	Advanced Database Systems	3
CSCI 4217	Ethical Issues in Computing	3
CSCI 4800	Senior Project in Information Technology	3
Four major electives		12

(See Computer Science Elective Categories; must include at least one course from category C and at least 6 hours at the 3000/4000 level; required courses may not count as electives.)

MATH 2870 Statistical Data Analysis ..... 3

**Suggested Course Sequence for Information Technology Concentration**

**Freshman - Fall Semester**

CSCI 1100	Using Information Technology	3
CSCI 1510	Student in University	3
CSCI 1710	WWW Design and Creation	3
ENGL 1010	Critical Reading & Expository Writing	3
MATH 1530	Probability and Statistics	3
MATH 1531	Statistical Computing	1
PHED 1XXX	Fitness Activity	1
<b>TOTAL</b>		<b>17</b>

**Freshman - Spring Semester**

CSCI 1800	Visual Program Design	3
MATH 2870	Statistical Data Analysis	3
ENGL 1020	Critical Thinking & Argumentation	3
Arts & Artistic Vision		3
Institutions & Society		3
PHED 2XXX	Lifetime Activity	1
<b>TOTAL</b>		<b>16</b>

**Sophomore - Fall Semester**

CSCI 2150	Computer Organization	4
CSCI 2235	Introduction to UNIX	1
CSCI 2800	Visual Prog-Advanced Concepts	4
HIST 2010	The United States to 1877	3
NATURAL SCIENCE		4
<b>TOTAL</b>		<b>16</b>

**Sophomore - Spring Semester**

CSCI 2910	Client & Server Side Prog.	4
CSCI 3400	Network Fundamentals	3
HIST 2020	The United States Since 1877	3
NATURAL SCIENCE		4
HUMANITIES ELECTIVE		3
<b>TOTAL</b>		<b>17</b>

**Junior - Fall Semester**

CSCI 3220	Introduction to Database Systems	3
CSCI 3250	Software Engineering I	3
CSCI 4417	Systems Administration	3
HERITAGE (Literature)		3
Identity, Ethics, Social Responsibility		3
<b>TOTAL</b>		<b>15</b>

**Junior - Spring Semester**

CSCI 4227	Advanced Database Systems	3
CSCI 3350	Software Engineering II	3
CSCI MAJOR ELECTIVE		3
Institutions & Society		3
FREE ELECTIVE		3
<b>TOTAL</b>		<b>15</b>

**Senior - Fall Semester**

CSCI 4217	Ethical Issues in Computing	3
CSCI MAJOR ELECTIVE		3
CSCI MAJOR ELECTIVE (3XXX or 4XXX)		3
FREE ELECTIVE		3
FREE ELECTIVE		3
FREE ELECTIVE		2
<b>TOTAL</b>		<b>17</b>

**Senior - Spring Semester**

CSCI 4800	Senior Project in Information Technology	3
CSCI MAJOR ELECTIVE (3XXX or 4XXX)		3
FREE ELECTIVE		3
FREE ELECTIVE		3
FREE ELECTIVE		3
<b>TOTAL</b>		<b>15</b>

Total Credit hours for Information Technology Concentration ..... 128

**Computer Science Elective Categories**

**Category A (Concepts of Programming Languages):**

CSCI 1250, 1260, 1270, 1800, 2800, 4817, 4857, 4910 (in this category), CSCI 4957 (in this category)

**Category B (Advanced Topics):**

CSCI 4110, 4157, 4227, 4417, 4717, 4727, 4910 (in this category), CSCI 4957, MATH 4257, 4267

**Category C (Information Technology):**

CSCI 1710, 2910, 4217, 4317, 4517, 4527, 4910 (in this category), CSCI 4957 (in this category)

**Approved Natural Science Courses**

ASTR 1010, 1020	Astronomy I, II
BIOL 1110-1111	Biology for Science Majors/Lab I, II
1120-1121	
CHEM 1110-1111	General Chemistry/Lab I, II
1120-1121	
GEOG 1110, 1120	Earth Science
GEOL 1040, 1050	Physical Geology, Historical Geology
HSCI 2010/2011	Anatomy/Physiology I, II
2020/2021	
PHYS 2010-2011	General Physics/Lab I, II - Non-Calculus
2020-2021	

**Minor .....(27 credits)**

**CS/IS Minor Track**

CSCI 1250	Introduction to Computer Science I	4
CSCI 1260	Introduction to Computer Science II	4
CSCI 2150	Computer Organization	4
CSCI 2210	Data Structures	4
Additional CSCI courses (see below)		11

**IT Minor Track**

CSCI 1710	World Wide Web - Design & Creation	3
CSCI 1720	World Wide Web - Advanced Concepts	3
CSCI 1800	Visual Prog. Design with Applications	3
CSCI 2150	Computer Organization	4
CSCI 2800	Visual Prog. - Advanced Concepts	4
Additional CSCI courses (see below)		10

The additional CSCI courses for the minor must include at least two courses numbered 3000 or above and may not include CSCI 1100, 110X, or 1510.

**Department of Geography, Geology  
and Geomatics (GGGS)**

**P.O. Box 70648**

**Phone: 423/439-4315**

**E-mail: chandler@etsu.edu**

Geography is a multiple character discipline that embraces physical science, social science and technology. Geographic inquiry is concerned with the spatial aspects and interrelationships within the earth's human and physical environments.

The Department of Geography, Geology, and Geomatics 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, geography education 7-12 (education licensure), and resource management (applied physical geography). The department also offers a bachelor's degree program in surveying and mapping science.

**Minor**

A minor in geography consists of a minimum of 20 semester 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.

**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.

**BACHELOR OF SCIENCE DEGREE IN GEOGRAPHY**

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

**Major Requirements:**

GEOG 1110	Earth SC: Weather/Climate	4
GEOG 1120	Earth SC: Landforms/Procs	4
GEOG 1012	Introduction to Cultural Geography	3
GEOG 1013	Introduction to World Regional Geography	3
GEOG 1510	Student in University OR	
ENTC 1510	Student in University	3
GEOG 2210	Modern Geographic Concepts	3
GEOG 3210	Cartography	3
GEOG 4007	Geography of the United States	3
GEOG 2000 to 4000	level courses(s)	4
<b>Total:</b>		<b>30</b>

**General Education ..... 44 Credits**

ENGL 1010	Critical Reading/Expository Writing	3
ENGL 1020	Critical Thinking & Argumentation	3
MATH 1530	Probability & Statistics - Non-Calculus	3
CSCI 1100	Using Information Technology	3*
SCIENCE - Select two courses [can be Geography 1110 and 1120] in the Areas of Familiarity		8
HIST 2010	The United States to 1877	3
HIST 2020	The United States Since 1877	3
Plus one of the ENGL courses listed under Heritage		3
Select one course from Arts and the Artistic Vision		3
Select one course from Identity, Ethics & Social Responsibility ..		3
Include GEOG 1012 with one other course from Institutions and Society		6
Select one unduplicated course from the Humanities Elective section		3

\*Can be completed by passing the challenge exam

**Intensive Courses** - Students who enter ETSU as freshmen or with less than 60 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 these must be in the major; at least two must be at the 3000-4000 level.

**Physical Education ..... 2**

Two courses, one being from the fitness activity category and one from the lifetime activities category.

**Suggested Course Sequence for Majors in Geography  
with a Concentration in Geography**

**Freshman - First Semester**

GEOG 1510	Student in University	3
GEOG 1110	Earth SC: Weather/Climate	4
ENGL 1010	Critical Reading/Expository Writing	3
HIST 2010	The United States to 1877	3
CSCI 1100	Using Information Technology	3
Physical Education		1
<b>TOTAL</b>		<b>17</b>

**Freshman - Second Semester**

HIST 2020	The United States Since 1877	3
GEOG 1120	Earth SC: Landforms/Processes	4
ENGL 1020	Critical Thinking/Argumentation	3
MATH 1530	Probability & Statistics-Non-Calculus	3
GEOG 1012	Introduction to Cultural Geography	3
Physical Education		1
<b>TOTAL</b>		<b>17</b>

**Sophomore - First Semester**

Heritage (Literature)	3
Minor	3-4
Arts and Artistic Vision Elective	3
Institutions and Society Elective	3
Elective course in major	3-4
<b>TOTAL</b>	<b>15-17</b>

**Sophomore - Second Semester**

GEOG 1013	Introduction to World Regional Geography	3
GEOG 2210	Modern Geography Concepts	3
Minor	3-4	
Identity, Ethics, & Social Responsibility	3	
Free Electives	4	
<b>TOTAL</b>	<b>16-17</b>	

**Junior - First Semester**

GEOG 3210	Cartography	3
Minor	3	
Humanities Elective	3	
Free Electives	3	
Elective course in major	3	
<b>TOTAL</b>	<b>15</b>	

**Junior - Second Semester**

GEOG 4007	Geography of the United States	3
Minor	3	
Minor	3	
Free Electives	7	
<b>TOTAL</b>	<b>16</b>	

**Senior - First Semester**

Minor	3-4
Required electives in major	4
Free Electives	8
<b>TOTAL</b>	<b>15-16</b>

**Senior - Second Semester**

Minor	3-4
Minor	3
Elective courses in major	3
Free Electives	6
<b>TOTAL</b>	<b>15-16</b>

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

**Resource Management Concentration**

This concentration provides preparation for careers pertaining to resource management in both the private and public sectors. A minor is required with this concentration and Biology is recommended.

**Geography Requirements and**

**General Education Requirements ..... 61**

Other Geography Requirements	26
GEOG 3040 Conservation of Natural Resources	3
GEOG 3060 Geomorphology	4
GEOG 3090 Meteorology & Climatology	4
URBS 3100 Introduction to Urban & Regional Planning	3
GEOG 4117 Resource Management	3
GEOG 4217 Geographic Information Systems	3
GEOG 4227 Remote Sensing	3
GEOG 4237 Advanced Remote Sensing	3

**Additional Requirements ..... 25**

CSCI 1250 Introduction to Computer Science	4
ACCT 2010 Principles of Accounting I	3
ACCT 2020 Principles of Accounting II	3
SPCH 2300 Public Speaking	3
PSCI 2610 Introduction to Public Administration	3
MGMT 3000 Organizational Management	3
FNCE 3120 Principles of Real Estate	3
URBS 4637 Local & Regional Planning	3

**Requirements for minor [Biology] ..... 24**

**Total Concentration Credit Hour Requirements ..... 136**

**Suggested Course Sequence for Majors in Geography with a Resource Management Concentration**

**Freshman - First Semester**

GEOG 1510 Student in University	3
GEOG 1110 Earth SC: Weather/Climate	4
BIOL 2100/2101 Biology for Science Majors	4
ENGL 1010 Critical Reading/Expository Writing	3
CSCI 1100 Using Information Technology	3
Physical Education	1
<b>TOTAL</b>	<b>18</b>

**Freshman - Second Semester**

ENGL 1020 Critical Thinking/Argumentation	3
GEOG 1120 Earth SC: Landforms/Proces	4
BIOL 2200/2201 Biology for Science Majors	4
MATH 1530 Probability & Statistics - Non-Calculus	3
GEOG 1012 Introduction to Cultural Geography	3
<b>TOTAL</b>	<b>17</b>

**Sophomore - First Semester**

BIOL 2300/2301 Biology for Science Majors	4
CSCI 1250 Introduction to Computer Science	4
ACCT 2010 Principles of Accounting I	3
HIST 2010 The United States to 1877	3
GEOG 1013 Introduction to World Regional Geography	3
<b>TOTAL</b>	<b>17</b>

**Sophomore - Second Semester**

GEOG 2210 Modern Geography Concepts	3
GEOG 3210 Cartography	3
ACCT 2020 Principles of Accounting II	3
HIST 2020 The United States Since 1877	3
PSCI 2610 Introduction to Public Administration	3
Physical Education	1
<b>TOTAL</b>	<b>16</b>

**Junior - First Semester**

BIOL 3100 General Genetics	3
GEOG 4217 Geographic Information Systems	3
MGMT 3000 Organizational Management	3
URBS 3100 Intro-Urban & Regional Planning	3
GEOG 3060 Geomorphology	4
<b>TOTAL</b>	<b>16</b>

**Junior - Second Semester**

BIOL Elective	3
GEOG 4227 Remote Sensing	3
GEOG 3090 Meteorology & Climate	4
FNCE 3120 Principles of Real Estate	3
SPCH 2300 Public Speaking	3
<b>TOTAL</b>	<b>16</b>

**Senior - First Semester**

BIOL Elective	3
Heritage (Literature)	3
GEOG 4117 Resource Management	3
GEOG 4237 Advanced Remote Sensing	3
Arts & Artistic Vision	3
Institutions & Society	3
<b>TOTAL</b>	<b>18</b>

**Senior - Second Semester**

BIOL Elective	3
GEOG 3040 Conservation of National Resources	3
GEOG 4007 Geography of the United States	3
URBS 4637 Local & Regional Planning	3
Identity, Ethics & Social Responsibility	3
Humanities Elective	3
<b>TOTAL</b>	<b>18</b>

NOTE: Students who anticipate working part time or full time should reduce their class loads accordingly. Students should also realize that biology is a recommended minor, and that other minors could be selected.

**Geography Education Concentration**

This concentration is designed for students who are pursuing a teacher education program for certification as a geography teacher in grades 7-12.

**Geography Requirements ..... 35**

GEOG 1110 Earth SC: Weather/Climate	4
GEOG 1120 Earth SC: Landforms/Proces	4
GEOG 1012 Intro. to Cultural Geography	3
GEOG 1013 Intro. to World Regional Geography	3
GEOG 2210 Modern Geographic Concepts	3
GEOG 3010 Economic Geography	3
GEOG 3040 Conservation of Natural Resources	3
GEOG 3210 Cartography	3
GEOG 4007 Geography of the United States	3

Two from:

GEOG 3300 Political Geography	3
GEOG 4227 Remote Sensing	3
GEOG 4267 Hydrology	3
GEOG 4307 Regional Geography	3

NOTE: GEOG 4417 Teaching of Geography & Earth Sciences is included as part of the Professional Education requirements for this degree.

**Professional Education Requirements ..... 46**

EDFN 2100 Orientation to Professional Education	1
HDAL 2330 Adolescent Psychology OR	
HDAL 2310 Developmental Psychology	3
HDAL 3310 Educational Psychology	3
EDFN 2300 Foundations for Teaching	3
EDFN 3301 Issues in Education	3
SPED 3320 Exceptional Learners in Schools & Comm.	3
MEDA 3570 Educational Technology	3
GEOG 4417 Teaching of Geography & Earth Science	3
CUAI 4417 Sec. School Curriculum & Methodology	3
CUAI 4427 Sec. School Curr. & Meth. Field Experience	3
READ 4437 Reading in Middle/Secondary School	3
CUAI 4580 Student Teaching	12
EDFN 4581 Seminar in Education	3

**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.

**Suggested Course Sequence for Majors with a Concentration in Geography Education**

**Freshman - First Semester**

ENGL 1010	Critical Reading/Expository Writing .....	3
GEOG 1110	Earth SC: Weather/Climate .....	4
MATH 1530	Probability & Statistics-Non-Calculus .....	3
HIST 2010	The United States to 1877 .....	3
GEOG 1012	Introduction to Cultural Geography .....	3
Physical Education	.....	1
<b>TOTAL</b>	.....	<b>17</b>

**Freshman - Second Semester**

ENGL 1020	Critical Thinking/Argumentation .....	3
GEOG 1120	Earth SC: Landforms/Proc .....	4
CSCI 1100	Using Information Technology .....	2
EDFN 2100	Orientation to the Profession of Education .....	1
HIST 2020	The United States Since 1877 .....	3
SOAA 1240	Introduction to Cultural Anthropology .....	3
Physical Education	.....	1
<b>TOTAL</b>	.....	<b>17</b>

**Sophomore - First Semester**

EDFN 2300	Foundations for Teaching .....	3
Minor	.....	3
HDAL 3310	Educational Psychology .....	3
GEOG 1040	Physical Geology .....	4
ENGL 2330	World Literature .....	3
<b>TOTAL</b>	.....	<b>16</b>

**Sophomore - Second Semester**

HDAL 2330	Adolescent Psychology* .....	3
Minor	.....	3
PEXS 3500	Dance as Human Experience * .....	3
PHIL 2020	Values and Society * .....	3
GEOG 2210	Modern Geography Concepts .....	3
GEOG 1013	Introduction to World Regional Geography .....	3
<b>TOTAL</b>	.....	<b>18</b>

**Junior - First Semester**

EDFN 3301	Issues in Education .....	3
SPED 3320	Exceptional Learners in Schools & Communities .....	3
HIST 1120	World History Since 1500 .....	3
Minor	.....	3
MEDA 3570	Educational Technology .....	3
Humanities Elective	.....	3
<b>TOTAL</b>	.....	<b>18</b>

**Junior - Second Semester**

GEOG 3210	Cartography .....	3
GEOG 4007	Geography of the United States .....	3
PSCI 1110	Political Life .....	3
Minor	.....	3
CUAI 4417	Secondary School Curriculum & Methods .....	3
CUAI 4427	Secondary School Curriculum & Methods Field Experience .....	1
<b>TOTAL</b>	.....	<b>16</b>

**Senior - First Semester**

GEOG 4417	Teaching - Geography/Earth Science .....	3
GEOG 3010	Economic Geography .....	3
Minor	.....	6
GEOG 3300	Political Geography * .....	3
<b>TOTAL</b>	.....	<b>15</b>

**Senior - Second Semester**

GEOG 3040	Conservation of National Resources .....	3
READ 4437	Reading in Middle/Secondary Schools .....	3
GEOG 4227	Remote Sensing * .....	3
Minor	.....	3-8
<b>TOTAL</b>	.....	<b>12-17</b>

**Senior - Third Semester**

CUAI 4580	Student Teaching .....	12
EDFN 4581	Seminar in Education .....	3
<b>TOTAL</b>	.....	<b>15</b>

\* Students may choose another designated class.

**Total Concentration Credit Hour Requirements ..... 144-149**

**Geology**

Geology is the study of earth, which considers its materials, its processes, and its development through time. The science of geology involves the application of knowledge about the earth's physical system to the modern problems of mineral resources, fuels and energy, engineering and the physical hazards of the environment. Geologists work with fossils and rocks to interpret the past and look to astronomy and space science in seeking answers about the origin of our planet. The study of geology provides the student with a practical and aesthetic appreciation of our planet and may be directed toward training as a professional geologist or in employment in one of the many associated peripheral areas. Student who wish to follow a geology curriculum should complete a geology minor and a major in geography (Physical). They should also see their advisor for appropriate courses outside the discipline - e.g. chemistry and mathematics.

**Minor**

The geology minor consists of 22 semester hours of study in geology.

Course Requirements:

GEOG 1040	Physical Geology .....	4
GEOG 1050	Historical Geology .....	4
GEOG 3112	Mineralogy II .....	4
GEOG 4120	Petrography .....	4
GEOG Electives	.....	6

Substitutions may be made for the above courses, but must have the advisor's approval.

**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 Cartography, Remote Sensing, and Geographic Information Systems (GIS). Core courses include plane, geodetic, photogrammetric and boundary surveying. By taking a minimum of 58 semester hours in surveying-related courses, students are well prepared for future licensing and professional-level positions with surveying and engineering firms, government service, utility companies and related industries.

**General Education Core Requirements:**

ENGL 1010	Critical Reading & Expository Writing .....	3
ENGL 1020	Critical Thinking & Argumentation .....	3
MATH 1910	Calculus I .....	4
CSCI 1100	Using Information Technology .....	2
HIST 2010	The United States to 1877 .....	3
HIST 2020	The United States Since 1877 .....	3
PHYS 2010-11	General Physics I with Lab <sup>1</sup> - Non-Calculus .....	4
PHYS 2020-21	General Physics II with Lab <sup>1</sup> -Non-Calculus .....	4
ENGL 2030, 2130, 2210, 2220, or 2330	(Heritage elective) .....	3
Art & The Artistic Vision elective	.....	3
Identity, Ethics, and Social Responsibility elective	.....	3
ECON 2210	Principles of Economics I .....	3
PSYC 1310	Introduction to Psychology .....	3
ENTC 3020	Technology and Society .....	3
<b>Total</b>	.....	<b>44</b>

<sup>1</sup>PHYS 2110 and 2120 Technical Physics I and II (Calculus-based) may be substituted

**Intensive Courses** - Students who enter ETSU as freshmen or with less than 60 transfer hours must take:

- four writing intensive courses, of which at least two must be in the major; at least two must be at the 3000-4000 level;
- two oral communication-intensive courses, of which at least one must be in the major;
- one using information technology-intensive course in the major.

Students must meet proficiency-intensive requirements through courses taken at ETSU.

Students with more than 60 transfer hours must take two writing-intensive courses, one oral-intensive course, and one using information technology-intensive course.

**Physical Education** ..... **2 credits**  
PEXS/PHED, Military Science, Marching Band ..... 2

If a student selects the PHED option, one course must be from the fitness activity category and one must be from the lifetime activity category.

**Other Requirements:**

ENTC/SURV 1510 Student in University .....	3
ENTC 2170 CADD (Auto CAD) .....	3
ENTC/SURV 3030 Technical Communications .....	3
ENTC 4017 Industrial Supervision .....	3
MATH 1920 Calculus II .....	4
MATH 2010 Linear Algebra .....	3
GEOL 1040 Physical Geology .....	4
CSCI elective 1250 or 2100 or 1310 or 1800 .....	3-4
(Basic Science elective) <sup>2</sup> .....	3-4
<b>Total</b> .....	<b>29-31</b>

<sup>2</sup>The Basic Science elective can be selected from GEOG 3060 or 4257 or ENTC 3400 or 3620.

**Survey Core Requirements:**

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 & Computational Analysis .....	4
SURV 3540 Surveying Projects .....	3
SURV 3550 Advanced Surveying Mathematics .....	3
SURV 3560 Geodetic Science .....	4
SURV 4510 Photogrammetry .....	4
SURV 4520 Survey Science Topics .....	3
SURV 4530 Land Boundary Location .....	4
SURV 4540 Land Subdivision and Platting .....	4
SURV 4550 Automated Surveying and Mapping .....	3
FNCE 3130 Real Estate Law .....	3
ENTC 4227 Engineering Economy .....	3
(Survey Science elective) <sup>3</sup> .....	6
<b>Total</b> .....	<b>58</b>

<sup>3</sup>Science Survey electives must be selected from among the following courses: GEOG 3210, 4217, 4227, 4237, 4317 or other advanced surveying elective approved by the program coordinator.

**Total Credit Hours** ..... **133-135**

**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 for All B.S. Majors in Surveying and Mapping Science**

**Freshman - First Semester**

ENGL 1010 Critical Reading/Expository Writing .....	3
MATH 1910 Calculus I .....	4
SURV 2560 Survey Graphics .....	4
PSYC 1310 Introduction to Psychology .....	3
SURV 1510 Student in University .....	3
PHED, MSCI, BAND .....	1
<b>TOTAL</b> .....	<b>18</b>

**Freshman - Second Semester**

ENGL 1020 Critical Thinking & Argumentation .....	3
MATH 1920 Calculus II .....	4
SURV 2550 Survey Measurement Fundamentals .....	4
CSCI 1100 Using Information Technology .....	2
ENTC 2170 CADD (AutoCAD) .....	3
PHED, MSCI, BAND .....	1
<b>TOTAL</b> .....	<b>17</b>

**Sophomore - First Semester**

SURV 3510 Engineering & Construction Surveys .....	4
SURV 3520 Land Survey Systems .....	2
ENGL (Heritage Elective) .....	3
<sup>2</sup> PHYS 2010 General Physics I Lecture .....	3
<sup>2</sup> PHYS 2011 General Physics I Lab .....	1
<sup>3</sup> (Basic Science Elective) .....	3-4
<b>TOTAL</b> .....	<b>16-17</b>

**Sophomore - Second Semester**

SURV 3530 Surveying Measurement & Computational Analysis .....	4
<sup>1</sup> CSCI elective .....	3-4
MATH 2010 Linear Algebra .....	3
<sup>2</sup> PHYS 2020 General Physics II Lecture .....	3
<sup>2</sup> PHYS 2021 General Physics II Lab .....	1
<sup>4</sup> Arts & Artistic Vision .....	3
<b>TOTAL</b> .....	<b>17-18</b>

**Junior - First Semester**

SURV 3550 Advanced Survey Math .....	3
SURV 3560 Geodetic Science .....	4
GEOL 1040 Physical Geology .....	4
ECON 2210 Principles of Economics .....	3
HIST 2010 The United States to 1877 .....	3
<b>TOTAL</b> .....	<b>17</b>

**Junior - Second Semester**

SURV 4510 Photogrammetry .....	4
SURV 3030 Technical Communication .....	3
FNCE 3130 Real Estate Law .....	3
HIST 2020 The United States Since 1877 .....	3
ENTC 3020 Technology and Society .....	3
<b>TOTAL</b> .....	<b>16</b>

**Junior - Summer Semester**

SURV 3540 Surveying Projects or Cooperative Education .....	3
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**Senior - First Semester**

SURV 4520 Survey Science Topics .....	3
SURV 4530 Land Boundary Location .....	4
ENTC 4227 Engineering Economy .....	3
<sup>4</sup> Identity, Ethics, Social Responsibility .....	3
<sup>5</sup> Survey Science Elective .....	3
<b>TOTAL</b> .....	<b>16</b>

**Senior - Second Semester**

SURV 4540 Land Subdivision & Platting .....	4
SURV 4550 Automated Surveying & Mapping .....	3
ENTC 4017 Industrial Supervision .....	3
<sup>5</sup> Survey Science Elective .....	3
<b>TOTAL</b> .....	<b>13</b>

<sup>1</sup> Select from CSCI 1250 or 2100 or 1310 or 1800.  
<sup>2</sup> PHYS 2110 and 2120 will also satisfy the Physics requirement.  
<sup>3</sup> Basic Science Elective – Choose 3-4 credits from GEOG 3060 Geomorphology, GEOG 4257 Geog. of Soils, ENTC 3400 Construction Materials, or ENTC 3620 Thermal and Fluid Technologies.  
<sup>4</sup> General Educ. Core: Arts & Artistic Vision (3 cr.), Identity, Ethics & Social Responsibility (3 cr).  
<sup>5</sup> Survey Science Electives – (6 cr. from) GEOG 3210 Cartography, GEOG 4227 Remote Sensing, GEOG 4237 Advanced Remote Sensing, GEOG 4217 Introduction to GIS, GEOG 4317 Advanced GIS or approved substitute.

## Department of Military Science

**P.O. Box 70648**

**Phone: 423/439-4269**

**E-mail: hubner@etsu.edu**

The military science program is a cooperative enterprise between ETSU and the U.S. Army. The program is designed to develop the students' managerial and leadership abilities, introduce students to the mission and organization of the U.S. Army and prepare advanced-course students for service as commissioned officers in the Active Army, Army Reserve or Army National Guard.

### MAJOR

An academic major in military science is not offered at ETSU. However, completion of the program qualifies the student for a commission as a second lieutenant.

### MINOR

Students may select military science as a minor, consisting of 25 semester hours of study. All military science advanced courses may be applied toward a minor in military science. To receive credit for a military science minor, students must complete Military Science III (3110 and 3120); ROTC Advanced Camp (4580); and Military Science IV (4110 and 4120). Students must be commissioned in order to receive the minor in military science.

### SUBSTITUTION FOR PHYSICAL EDUCATION

Mountaineering, Leadership and Survival may be taken in lieu of the requirement for lifetime activities in physical education. Also, both physical training courses offered by the Department of Military Science may be taken in lieu of the fitness activity requirement for physical education.

### 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's Camp Challenge.

### 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 now 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) 439-5291/5288

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 U.S. 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 U.S. Army, the dynamics of leadership and management, military skills, and mountaineering.

### ROTC CAMP CHALLENGE

This is a five-week, paid summer course at Ft. Knox, Ky., designed for students who have two academic years remaining and who have not participated in the basic course program or received equivalency credit. Camp Challenge attendees receive pay and travel allowances. Training is practical in nature and consists of exercises in which the cadet is an active participant. There are no military or other obligations for basic camp attendance. Students may earn up to six credit hours and a two-year Army ROTC Scholarship.

### ROTC ADVANCED COURSE

Advanced military science cadets continue their studies in leadership and tactics with the scope of instruction expanded to include subjects such as military law, battle simulations, group dynamics, organizational management, and decision making. Advanced Course contract students receive \$200 a 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 in 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.

### ROTC ADVANCED CAMP

Advanced Course cadets are required to attend the five week advanced camp at Fort Lewis, Wash., upon completion of the junior year of military science. Advanced camp attendance is a prerequisite to commissioning but may be delayed until completion of the senior year with the approval of the U.S. Army and the professor of Military Science at ETSU.

### COURSE SEQUENCE REQUIREMENTS

To receive a commission in the U.S. Army through the military science program, a student must successfully complete 11 semester 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 Camp Challenge.

One of the following two sequences will be utilized to obtain a commission as a second lieutenant.

#### FOUR-YEAR PROGRAM COURSE SEQUENCE

MSCI 1210	Mountaineering, Leadership, and Survival I
MSCI 1220	Mountaineering, Leadership, and Survival II
MSCI 2110	Dynamics of Leadership and Management
and 1180	Practicum I
MSCI 2150	Military Skills I and
MSCI 1181	Practicum II
MSCI 3110	Military Skills II
MSCI 3120	Military Skills III
MSCI 4580	Advanced Camp
MSCI 4110	Advanced Tactics
MSCI 4120	Advanced Leadership

**TWO-YEAR PROGRAM COURSE SEQUENCE**

MSCI	2580	Basic Camp or equivalency credit
MSCI	3110	Military Skills II
MSCI	3120	Military Skills III
MSCI	4580	Advanced Camp
MSCI	4110	Advanced Tactics
MSCI	4120	Advanced Leadership

The chair of the Department of Military Science may make exceptions to this policy under unusual circumstances.

Advanced course cadets must take HIST 3940 (War in the Modern World) as a prerequisite to commissioning.

**Department of Technology**

**P.O. Box 70552** **Phone: 423/439-7822**

**E-mail: johnsonk@etsu.edu**

**MAJORS**

The Department of Technology offers a four-year bachelor of science degree. Major concentrations are available in the following programs: 1) biomedical engineering technology; 2) construction technology; 3) electronics engineering technology; 4) digital media (pending TBR approval); 5) industrial technology; 6) manufacturing engineering technology; and 7) technology education.

**GRADUATE STUDY**

The Department of Technology offers a master of science degree. The concentrations available are: (1) an industry-oriented program of studies, and (2) a program for technology educators.

**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.

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 advisor.

**Minor**

A minor in technology is available to students who wish to acquire technical knowledge and skills. Requirements for the minor are 21 semester 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 courses in the department regardless of the number of credit hours transferred.

**VOCATIONAL TRADE AND SHOP LICENSE FOR TRADE AND INDUSTRIAL AND HEALTH OCCUPATIONS TEACHERS**

The Vocational Division of the Tennessee Department of Education and the State Board of Education for professional certification for trade and industry teachers and health occupation teachers require 18 semester hours of approved coursework for certification. The specific course requirements for the certification program can be found under the Department of Technology subheading: Trade and Industry.

**Area Requirements:**

1. Health occupation teachers must hold current licensure and/or certification in an allied health occupation or current licensure as a registered nurse in Tennessee.
2. Cosmetology teachers and barbering teachers must hold current licensure to instruct in Tennessee as issued by the respective state licensing board.

**BACHELOR OF SCIENCE DEGREE IN TECHNOLOGY**

The General Education Core Requirements and Technical Core and restrictions for all technology B.S. degree concentrations, with the exception of technology education, include:

ENGL	1010	Critical Reading & Expository Writing .....	3
ENGL	1020	Critical Thinking and Argumentation .....	3
CSCI	1100	Using Information Technologies <sup>1</sup> .....	3
MATH	1530	Probability and Statistics Non-Calculus .....	3
HIST	2010, 2020	History of U.S. sequence (Heritage) .....	6
Phys. Ed. or Military Sci.		or Marching Band .....	2/4
PHYS	2010/2011	General Physics I Lecture & Lab - Non-Calculus .....	4
PHYS	2020/2021	General Physics II Lecture & Lab - Non-Calculus or .....	4
CHEM	1110/1111	General Chemistry Lecture & Lab <sup>3</sup> .....	4
ENGL	2030, 2130, 2210, 2220, 2330, or 2430	(Heritage) .....	3
ENTC	3020	Technology and Society (Humanities) .....	3
		Elective (Arts and Artistic Vision) .....	3
		Elective (Identity, Ethics & Social Responsibility) .....	3
		Elective (Institutions and Society) .....	6
<b>Total .....</b>			<b>46-48</b>

**Technology Core:**

ENTC	1110	Engineer Drawing .....	4
ENTC	1510	Student in University .....	3
ENTC	2170	CADD .....	3
ENTC	3030	Technical Communication .....	3
ENTC	4017	Industrial Supervision .....	3
ENTC	4060	Project Scheduling .....	3
ENTC	4600	Technology Practicum .....	4
ENTC	4777	Safety Management .....	3
<b>Total .....</b>			<b>26</b>

Total General Education Core and Technology  
**Core Requirements:..... 72-74**

<sup>1</sup> Can be completed by passing the UIT Challenge Exam.  
<sup>2</sup> Required of all entering students with less than 15 semester hours of college credit.  
<sup>3</sup> PHYS 2020/2021 is required for Biomedical and Construction Engineering Technology concentrations.

**BIOMEDICAL ENGINEERING  
TECHNOLOGY CONCENTRATION**

This concentration is designed to prepare graduates to work as hospital-based biomedical engineering technologist.

**Technology and General Education  
Core Requirements ..... 72-74**

**Additional Requirements:**

ENTC 2310	Electrical Principles .....	4
ENTC 2320	Electronics I .....	4
ENTC 3310	Circuit Analysis .....	3
ENTC 3320	Electronics II .....	4
ENTC 3370	Electronics-Digital Circuits .....	4
ENTC 4310	Electronics-Communications .....	4
ENTC 4337	Electronics-Microprocessors .....	4
ENTC 4347	Digital Signal Processors .....	4
ENTC 4350	Biomedical Instrumentation I .....	4
ENTC 4360	Biomedical Internship .....	2
ENTC 4370	Biomedical Instrumentation II .....	4
ENTC 4390	Medical Imaging Equipment .....	3
MATH 1720	Precalculus .....	3
MATH 1840	Analytic Geometry & Differential Calculus .....	3
MATH 1850	Integral Calculus for Technology .....	3
HSCI 2010	Anatomy and Physiology I .....	3
HSCI 2011	Anatomy and Physiology Laboratory .....	1
HSCI 2020	Anatomy and Physiology II .....	3
HSCI 2021	Anatomy and Physiology Laboratory .....	1
PUBH 2750	Medical Terminology .....	3
<b>Total:</b>	<b>.....</b>	<b>136-138</b>

At the present time, four clinical sites are used for ENTC 4350 Biomedical Internship I. Students must have transportation to their internship site. Students must also furnish evidence of having met health examination requirements for their internship.

Currently there are adequate clinical sites for student internships. In the event student applications for internships exceed clinical positions available, the faculty reserves the right to initiate selection criteria for the assignment of students.

**Biomedical Engineering Technology**

**Freshman - Fall Semester**

ENGL 1010	Critical Reading/Expository Writing .....	3
ENTC 1510	Student in University .....	3
CSCI 1100	Using Information Technology .....	3
Institution Elective	.....	3
MATH 1720	Precalculus .....	3
PHED 1xxx	Fitness .....	1
<b>TOTAL</b>	<b>.....</b>	<b>16</b>

**Freshman - Spring Semester**

ENTC 2170	CADD Drafting .....	3
ENTC 1110	Engineering Drawing .....	3
ENGL 1020	Critical Thinking/Argumentation .....	3
Institution Elective	(See General Education Core) .....	3
MATH 1840	Analytic Geometry & Differential Calculus .....	3
PHED 2xxx	Lifetime .....	1
<b>TOTAL</b>	<b>.....</b>	<b>16</b>

**Sophomore - Fall Semester**

ENTC 2310	Electrical Principles .....	4
Heritage Elective	.....	3
HSCI 2010/2011	Anatomy/Physiology/Lab .....	4
MATH 1850	Integral Calculus .....	3
PHYS 2010	General Physics I Lecture .....	3
PHYS 2011	General Physics I Lab .....	1
<b>TOTAL</b>	<b>.....</b>	<b>18</b>

**Sophomore - Spring Semester**

ENTC 2320	Electronics I .....	4
ENTC 3310	Circuit Analysis .....	3
HSCI 2020/2021	Anatomy/Physiology/Lab .....	4
MATH 1530	Statistics .....	3
PHYS 2020	General Physics II Lecture .....	3
PHYS 2021	General Physics II Lab .....	1
<b>TOTAL</b>	<b>.....</b>	<b>18</b>

**Junior - Fall Semester**

ENTC 3030	Technical Communication .....	3
ENTC 3320	Electronics II .....	4
ENTC 4777	Safety Management .....	3
ENTC 4600	Technical Practicum .....	4
HIST 2010	The United States to 1877 .....	3
<b>TOTAL</b>	<b>.....</b>	<b>17</b>

**Junior - Spring Semester**

ENTC 3370	Electronics - Digital Circuits .....	4
ENTC 4060	Project Scheduling .....	3
ENTC 4350	Biomedical Instrumentation I .....	4
PUBH 2750	Medical Terminology .....	3
HIST 2020	The United States Since 1877 .....	3
<b>TOTAL</b>	<b>.....</b>	<b>17</b>

**Senior - Fall Semester**

ENTC 4337	Microprocessors .....	4
ENTC 4370	BMET Instrumentation II .....	4
ENTC 4360	BMET Internship I .....	2
ENTC 3020	Technology & Society .....	3
ENTC 4390	Medical Imaging Equipment Technology .....	3
<b>TOTAL</b>	<b>.....</b>	<b>16</b>

**Senior - Spring Semester**

ENTC 4310	Electronics Communications .....	4
ENTC 4347	Digital Signal Processors .....	4
ENTC 4017	Industrial Supervision .....	3
Artistic Vision Elective	.....	3
Identity Elective	.....	3
<b>TOTAL</b>	<b>.....</b>	<b>17</b>

**Total Credit Hours for B.S. Degree ..... 135**

**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.

**Technology and General Education  
Core Requirements ..... 72-74**

**Additional Requirements:**

ENTC 2410	Construction Fundamentals .....	4
ENTC 2420	Residential & Commercial Planning .....	4
ENTC 2440	Mechanical Systems .....	4
SURV 2550	Surveying Measurement Fundamentals .....	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 .....	4
ENTC 3620	Thermal & Fluid Technologies .....	4
ENTC 3650	Applied Electricity-Electronics .....	4
ENTC 4417	Construction Financing & Admin. ....	3
GEOL 1040	Physical Geology or	
CHEM 1110/1111	General Chemistry & Lab .....	4
ACCT 2010	Principles of Accounting I .....	3
MATH 1720	PreCalculus .....	3
MATH 1840	Analytic Geometry & Differential Calculus .....	3
MATH 1850	Integral Calculus for Technology** .....	3
<b>Total:</b>	<b>.....</b>	<b>135-137</b>

**Electronic Engineering Technology Concentration**

**Freshman - Fall Semester**

ENTC 1510	Student in University .....	3
ENTC 2410	Construction Fundamentals .....	4
CSCI 1100	Using Information Technology .....	3
PHED 1xxx	(Fitness) .....	1
ENGL 1010	Critical Reading/Expository Writing .....	3
MATH 1720	Precalculus .....	3
<b>TOTAL</b>	<b>.....</b>	<b>17</b>



**Freshman - Spring Semester**

ENTC 1110	Engineering Drawing	4
ENTC 2420	Residential & Commercial Planning	4
MATH 1840	Analytic Geometry/Differential Calculus	3
ENGL 1020	Critical Thinking/Argumentation	3
GEOL 1040	Physical Geology or	
CHEM 1110/1111	General Chemistry Lecture/Lab	4
<b>TOTAL</b>		<b>18</b>

**Sophomore - Fall Semester**

ENTC 3650	Electrical Systems	4
ENTC 2170	C.A.D.	3
MATH 1530	Probability and Statistics	3
MATH 1850	Integral Calculus	3
PHYS 2010	General Physics	3
PHYS 2011	General Physics Lab	1
<b>TOTAL</b>		<b>17</b>

**Sophomore - Spring Semester**

ENTC 2440	Mechanical Systems	4
ENTC 3010	Statics and Strengths of Materials	4
ACCT 2010	Introduction to Accounting	3
ECON 2210	Principles of Economics, Part I	3
PHYS 2020	General Physics Lecture	3
PHYS 2021	General Physics Lab	1
<b>TOTAL</b>		<b>18</b>

**Junior - Fall Semester**

ENTC 3030	Technical Communication	3
ENTC 3400	Construction material Testing	4
ENTC 3410	Construction Estimating	4
HIST 2010	The United States to 1877	3
SURV 2550	Surveying Measurement Fundamentals	4
<b>TOTAL</b>		<b>18</b>

**Junior - Spring Semester**

ENTC 3420	Advanced Construction Estimating	4
ENTC 3620	Hydraulic Technology	4
ENTC 3430	Materials and Methods I	4
PHED 2xxx	(Lifetime)	1
PSYC 1310	Introduction to Psychology	3
<b>TOTAL</b>		<b>16</b>

**Senior - Fall Semester**

ENTC 4777	Safety Management	3
ENTC 3020	Technology & Society	3
ENTC 4417	Construction Finance & Administration	3
Arts and Artistic Vision		3
Heritage		3
<b>TOTAL</b>		<b>15</b>

**Senior - Spring Semester**

ENTC 4060	Project Scheduling	3
HIST 2020	The United States Since 1877	3
ENTC 4600	Technical Practicum	3
ENTC 4017	Industrial Supervision	3
ENTC XXXX	Electronics Elective	3
Identity, Ethics and Social Responsibility		3
<b>TOTAL</b>		<b>16</b>

Total Credit Hours for B.S. in Electronic Engineering ..... 135

**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 speciality.

**Technology and General Education  
Core Requirements ..... 72-74**

**Electronics Core Requirements:**

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

**Additional Requirements:**

MATH 1720	Pre-calculus	3
*MATH 1840	Analytic Geometry & Diff Cal	3
MATH 1850	Integral Calculus for Technology	3
**PHYS 2020/21	General Physics II or	
CHEM 1110/11	General Chemistry	4
<b>Total:</b>		<b>43</b>

\*The MATH 1910 and 1920 sequence can be substituted for the MATH 1840-1850 sequence.

\*\*Select one course that was not taken as of the Technology Department's General Education Core requirements.

**Specialty:** Each student must select from one of the specialties below to complete the program of study.

**Telecommunications:**

ENTC 3170	Network Systems	3
ENTC 4327	Telecommunications I	4
ENTC 4347	Digital Signal Processors	4
ENTC Electives (selected from approved list)		6-7
<b>Total</b>		<b>17-18</b>

**Instrumentation & Automation:**

ENTC 4277	Instrumentation and Process Control	4
ENTC 4287	Introduction to Robotics	3
ENTC Electives (selected from approved list)		6-7
<b>Total</b>		<b>17-18</b>

**General:**

ENTC Electives (selected from approved list)		18
<b>Total</b>		<b>18</b>

Approved Electives:

ENTC 3030, 3170, 3350, 4047, 4277, 4287, 4297, 4327, 4347, 4357, 4390, 4989-99.

**Total Program ..... 133-135**

**Electronic Engineering Technology Concentration**

**Freshman - Fall Semester**

ENTC 1110	Engineering Drawing	4
ENTC 1510	Student in University	3
ENGL 1010	Critical Reading/Expository Writing	3
MATH 1720	Precalculus	3
CSCI 1100	Using Information Technology	3
PHED 1xxx	(Fitness)	1
<b>TOTAL</b>		<b>17</b>

**Freshman - Spring Semester**

Identity Elective		3
ENTC 2170	CADD	3
ENGL 1020	Critical Thinking/Argumentation	3
MATH 1840	Analytic Geometry	3
CHEM 1110/11	General Chemistry	4
PHED 2xxx	(Lifetime)	1
<b>TOTAL</b>		<b>17</b>

**Sophomore - Fall Semester**

ENTC 2310	Electrical Principles	4
ENGL 2030, 2131, 2210, 2220, 2330, 2430		3
MATH 1850	Integral Calculus	3
PHYS 2010	General Physics	3
PHYS 2011	General Physics Lab	1
Arts and Artistic Vision		3
<b>TOTAL</b>		<b>17</b>

**Sophomore - Spring Semester**

ENTC 2320	Electronics I	4
ENTC 3310	Circuit Analysis	3
MATH 1530	Probability and Statistics	3
PHYS 2020	General Physics	3
PHYS 2021	General Physics Lab	1
Institutions and Society		3
<b>TOTAL</b>		<b>17</b>

**Junior - Fall Semester**

ENTC 3320	Electronics II .....	4
ENTC Electronics elective	.....	3
ENTC 3030	Technical Communication .....	3
Institutions and Society	.....	3
HIST 2010	The United States to 1877 .....	3
<b>TOTAL</b>	.....	<b>16</b>

**Junior - Spring Semester**

ENTC 3370	Digital Circuits .....	4
ENTC Electronics elective	.....	3
ENTC 3020	Technology & Society .....	3
ENTC 4060	Project Management .....	3
HIST 2020	The United States Since 1877 .....	3
<b>TOTAL</b>	.....	<b>16</b>

**Senior - Fall Semester**

ENTC 4310	Electronic Communications .....	4
ENTC 4337	Microprocessors .....	4
ENTC Electronics specialization	.....	3
ENTC 4037	Quality Assurance I .....	3
ENTC 4777	Safety Management .....	3
<b>TOTAL</b>	.....	<b>16</b>

**Senior - Spring Semester**

ENTC Electronics specialization	.....	4
ENTC Electronics specialization	.....	4
ENTC 4017	Industrial Supervision .....	3
ENTC 4600	Technical Practicum .....	4
<b>TOTAL</b>	.....	<b>17</b>

Total Credit Hours for B.S. in Electronic Engineering ..... 134

**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, and ENTC 3330, Electronics III. A computer science course is a prerequisite/corequisite for ENTC 3310, Circuit Analysis. No associate degree course work 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 student's 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.) Note that ENTC 3310, Circuit Analysis, is a prerequisite for ENTC 3320, Electronics II.

**DIGITAL MEDIA  
(Pending TBR Approval)**

The B.S. in Digital Media is a course of study with four mutually complementary areas of concentration, each rooted in principles of human-Computer Interface (HCI) design construed in relation to professional work and supervisory settings:

**Visualization** — modeling and rendering visually meaningful interpretations of scenarios, products, and contexts,

**Multimedia** — selecting, designing and delivering digital content by appropriate vehicle,

**Hypermedia** — designing, rendering and implementing user-centered information architectures to provide access to digital content as on the World Wide Web of the Internet or corporate and industrial intranets,

**Product Design** — using advanced digital visualization technology to design and prototype new products.

**Technology and General Education  
Core Requirements**

General Education Core Requirements ..... 46-48

**Digital Media Core Requirements:**

ARTA 1110	2D Design .....	3
ARTA 1204	Color Theory .....	3
ENTC 1110	Engineering Drawing .....	4
ENTC 3030	Technical Communication .....	3
ENTC 2170	CADD .....	3
MATH 1840	Analytical Geometry & Differential Calculus or MATH 1910 Calculus I .....	3-4
CSCI 1800	Visual Programming Design with Applications ....	3
DIGM 2820	Industrial Illustration .....	4
DIGM 2821	Desktop Publishing .....	4
DIGM 2822	Presentation Media .....	4
DIGM 2825	Digital Media Systems .....	4
<b>Total</b>	.....	<b>38</b>

There are four Areas of Concentration:

- Visualization
- Multimedia
- Hypermedia, and
- Product Design

Each concentration comprises a sequence of four area-specific courses: Introduction, Intermediate, Advanced, and Senior Project.

**Digital Media Area Concentration Requirements Credit Hours**

DIGM 28X0	Introduction to (Area) .....	4
DIGM 38X0	Intermediate (Area) .....	4
DIGM 48X7	Advanced (Area) .....	4
DIGM 48X9	Senior Project in (Area) .....	4
<b>Total</b>	.....	<b>16</b>

All Digital Media majors must take at least 21 hours of technical electives selected from those listed in the table Guided Technical Electives. As shown here each area of concentration requires 12-17 hours of specific courses to be included in the student's selection of guided electives.

**Multimedia guided electives:**

DIGM 2840	Introduction to Visualization .....	4
DIGM 2850	Introduction to Hypermedia .....	4
ARTA 2120	Basic Figure Drawing .....	3
ARTA 2200	Basic Photography .....	3
ARTA 4302	Illustration .....	3
<b>Total</b>	.....	<b>17</b>

**Visualization guided electives:**

ARTA 1201	Drawing Fundamentals .....	3
ARTA 2200	Basic Photography .....	3
THEA 2520	Stagecraft .....	3
THEA 3335	Lighting Design .....	3
<b>Total</b>	.....	<b>12</b>

**Hypermedia guided electives:**

CSCI 2800	Visual Programming -- Advanced Concepts .....	4
DIGM 2830	Intro. Multimedia or	
CSCI 4517	Multimedia Essentials .....	4
MGMT 3000	Organizational Behavior & Management .....	3
ENTC 4060	Project Scheduling .....	3
<b>Total</b>	.....	<b>14</b>

**Product Design guided electives:**

ENTC 1120	Manufacturing Processes & Specification .....	3
ENTC 2310	Electrical Principles .....	4
ENTC 3010	Statics & Strength of Materials .....	4
ENTC 3710	Manual Numerical Control Programming .....	3
ENTC 4060	Project Scheduling .....	3
<b>Total</b>	.....	<b>17</b>

**Guided Technical Electives Credit Hours:**

ARTA 1201	Drawing Fundamentals	3
ARTA 2010	Intermediate Drawing	3
ARTA 2120	Basic Figure Drawing	3
ARTA 2200	Basic Photography	3
ARTA 3201	Intermediate Figure Drawing	3
ARTA 3601	Intermediate Photography	3
ARTA 4302	Illustration	3
ARTA 4603	Introduction to Studio Photography	3
CSCI 1250, 1260	Introduction to Computer Science I & II	8
CSCI 1710, 1720	World Wide Web, WWW Advanced Concepts	6
CSCI 2210	Data Structures	4
CSCI 3220	Introduction to Database Systems	3
CSCI 3250	Software Engineering I	3
CSCI 3350	Software Engineering II	3
CSCI 4157	Interactive Graphics	3
DIGM 28X0	Introduction to (Area) (Any other than DM core area entry courses.)	12
DIGM 38X0	Intermediate (Area) (Any other than student's area of concentration.)	12
DIGM 48X7	Advanced (Area) (Any other than student's area of concentration.)	12
DIGM 4177	Computer Graphics	4
DIGM 4650	Digital Imaging	4
ENTC 1120	Manufacturing Processes & Specification	3
ENTC 2200	Machine Tool Technology	4
ENTC 2310	Electrical Principles	4
ENTC 2610	Applied Mechanics I	3
ENTC 2620	Applied Mechanics II	3
ENTC 3010	Statics and Strength of Materials	4
ENTC 3240	Engineering Materials & Testing	4
ENTC 3260	Intro. to Computer-Integrated Manufacturing	4
ENTC 3660	Communications Systems Technology	3
ENTC 3710	Manual Numerical Control Programming	3
ENTC 3989-99	Cooperative Education (1-3 credits each)	2-6
ENTC 4017	Industrial Supervision	3
ENTC 4037	Quality Assurance	3
ENTC 4060	Project Scheduling	3
ENTC 4390	Medical Imaging Equipment Technology	3
ENTC 4900	Independent Study in Technology	1-6
ENTC 4957	Special Topics in Technology	2-6
MATH 1070	Integral Calculus for Technology or	
MATH 1920	Calculus II	3-4
MATH 1530	Probability & Statistics	3
MATH 1910	Calculus I	4
MATH 2010	Linear Algebra	3
RTVF 3602	Video-Film Techniques	3
THEA 2520	Stagecraft	3
THEA 2530	Dramatic Structure	3
THEA 3335	Lighting Design	3
THEA 4547	Dramatic Theory & Criticism	3

**Digital Media Concentration  
(Pending TBR approval)**

**Freshman - First & Second Semester**

ENGL 1010 & 1020	6
CSCI 1100	3
ENTC 1510, 1110 & 2170	10
DIGM 2820 & 2821	8
ARTA 1110 & 1204	6
<b>Total</b>	<b>33</b>

**Sophomore - First & Second Semester**

MATH 1720 & 1840	6
CSCI 2100	3
PHYS 2010 & 2011	4
HIST 2010	3
DIGM 2822 & 2825	8
DIGM 28X0	4
Technical Electives	3
PHED Fitness and Lifetime Activity	2-4
<b>Total</b>	<b>33-35</b>

**Junior - First & Second Semesters**

PHYS 2020 & 2021	4
ENTC 3020 (Humanities) & 3030	6
DIGM 38X0 (Intermediate Area)	4
ENGL (Heritage)	3
HIST 2020	3
Technical Electives	10
<b>Total</b>	<b>30</b>

**Senior - First & Second Semesters**

Technical Electives	8
DIGM 48X7 (Advanced Area)	4
DIGM 49X9 (senior Project in Area)	4
Elective (Arts and the Artistic Vision)	3
Elective (Identity, Ethics and Social Responsibility)	3
Electives (institutions and Society)	6
<b>Total</b>	<b>28</b>

**Program Total** ..... 124-126

**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.

**Technology and General Education**

**Core Requirements:**..... 72-74

**Additional Requirements:**

ENTC 1120	Manufacturing Processes and Specification	3
ENTC 2200	Machine Tool Technology	4
ENTC 2310	Electrical Principles	4
ENTC 3240	Engineering Materials & Materials Testing	4
ENTC 3260	Introduction to CIM	3
ENTC 3600**	Manufacturing Technology	3
ENTC 3620	Thermal & Fluid Technologies	4
ENTC 4037	Quality Assurance I	3
ENTC 4227	Engineering Economics	3
***	Technical Electives	6
ACCT 2010	Principles of Accounting	3
CSCI 2100	Introduction to C	3
MATH 1720	Precalculus	3
MATH 1840	Analytic Geometry & Differential Calculus	3
MGMT 3000	Organizational Management	3
MGMT 3310	Legal Environment of Business	3
SPCH 2300	Public Speaking	3

**Total Credit Hours (Minimum) Required for Industrial Technology Concentration** ..... 130-132

\*\* 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 1310 (4) or CSCI 1800 (4) may be substituted for CSCI 2100.

**MANUFACTURING ENGINEERING TECHNOLOGY  
CONCENTRATION**

**TECHNOLOGY EDUCATION CONCENTRATION**

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

This concentration offers a curriculum designed to prepare individuals for teacher certification in the public schools. It includes a variety of laboratory and classroom experiences that prepare the prospective teacher to help students learn about technology, its evolution, systems, techniques, utilization in industry and other fields, and its social and cultural significance.

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.

**Technology and General Education**

**Core Requirements:..... 72-74**

**Manufacturing Core Requirements:**

ENTC 1120	Manufacturing Processes and Specification ...	3
ENTC 2200	Machine Tool Technology .....	4
ENTC 2310	Electrical Principles .....	4
ENTC 3260	Introduction to Computer-Integrated Manuf.....	3
ENTC 3620	Thermal & Fluid Technologies .....	4
ENTC 3710	Manual CNC Programming .....	3
ENTC 4037	Quality Assurance I .....	3
CSCI 2100	Introduction to C <sup>1</sup> .....	4
MATH 1720	Precalculus .....	3
MATH 1840	Analytical Geometry & Diff. Calculus <sup>2</sup> .....	3
MATH 1850	Integral Calculus for Technology <sup>2</sup> .....	3
PHYS 2020-21	General Physics II - Non-Calculus Lecture/Lab <sup>3</sup> .....	4
<b>Total: .....</b>		<b>41</b>

**Specialty Sequence (Choose One)<sup>4</sup>**

**Programming & Automation Sequence**

ENTC 2320	Electronics .....	4
ENTC 3370	Electronics – Digital Circuits .....	4
ENTC 4277	Instrumentation & Process Control .....	4
ENTC 4337	Microprocessors I .....	4

Choose any two or more of the following ENTC classes

ENTC 3350	Industrial Electronics .....	3
ENTC 4287	Introduction to Robotics .....	3
ENTC	Technical electives <sup>5</sup> .....	3
<b>Total: .....</b>		<b>22</b>

**Total Credit Hours w/Prog. & Auto. Seq. .... 134-136**

**General Manufacturing Sequence**

ENTC 3010	Statis & Strength of Materials .....	3
ENTC 3240	Engr. Materials & Materials Testing .....	4
ENTC 4257	Plant Layout & Materials Handling .....	3

Choose any three or more of the following ENTC classes

ENTC 3600	Manufacturing Technology <sup>6</sup> .....	3
ENTC 3680	Polymers and Composites .....	3
ENTC 4227	Engineering Economy .....	3
ENTC 4237	Time and Motion .....	4
ENTC 4247	Operational Analysis .....	3
ENTC	Technical elective <sup>5</sup> .....	3
<b>Total: .....</b>		<b>19</b>

**Total Credit Hours w/Gen. Mfg. Sequence .. 133-135**

<sup>1</sup> CSCI 1250, 1310, or 1800 may be substituted for CSCI 2100.

<sup>2</sup> MATH 1910 and 1920 will satisfy the MATH 1840/1850 Sequence.

<sup>3</sup> CHEM 1120/1121 may be substituted for PHYS 2020/2021.

<sup>4</sup> 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.

<sup>5</sup> ENTC electives may be chosen from any of the offerings in the other specialty sequence or any of the following: ENTC 4217, 4347, 4900, 4957, 4989, 4999.

<sup>6</sup> Cooperative Education (ENTC 4989/4999) may be substituted for ENTC 3600.

**General Education Requirements and other requirements for the technology education concentration:**

ENGL 1010	Critical Reading & Expository Writing .....	3
ENGL 1020	Critical Thinking & Argumentation .....	3
MATH 1530	Probability & Statistics Non-Calculus .....	3
CSCI 1100	Using Information Technology* .....	3
CHEM 1110/1111	General Chemistry .....	4
PHYS 2010/2011	General Physics I - Non-Calculus .....	4
GEOG 1012	Introduction to Cultural Geography .....	3
HIST 2010/2020	History of United States .....	6
ENGL 2330	World Literature .....	3
ENTC 3020	Technology and Society .....	3
PEXS 3500 or HUMT 2320	(Arts & Artistic Vision) .....	3
PHIL 1030, 2020, 2210 or WMTS 2010	(Identity, Ethics & Social Responsibility) .....	3
Elective (Institutions and Society) .....		3
ENTC 1510	Student in University** .....	3
ENTC 3030	Technical Communication .....	3
PEXS/PHED, MSCI, or Marching Band	.....	2
<b>Total: .....</b>		<b>52</b>

**Professional Education Requirements:**

HDAL 2330	Adolescent Psychology .....	3
HDAL 3310	Educational Psychology .....	3
EDFN 2100	Orientation to Profession of Education .....	1
EDFN 2300	Foundations for Teaching .....	3
EDFN 3301	Issues in Education .....	3
SPED 2300	Exceptional Learners in Schools .....	3
ENTC 4647	Job Analysis & Curriculum Organization .....	3
ENTC 4747	Instructional Management Indust. Educ .....	3
ENTC 4767	Coordinating Student Clubs & Leadership .....	3
ENTC 4787	Methods Teaching Voc/Tech Education .....	3
READ 4437	Reading in Middle/Secondary School .....	3
CUAI 4580	Student Teaching .....	12
EDFN 4581	Seminar in Education .....	3
<b>Total: .....</b>		<b>46</b>

**Technical Requirements:**

ENTC 1110	Engineering Drawing .....	4
ENTC 1600	Introduction to Technology Education .....	3
ENTC 1610	Woodworking Technology .....	3
ENTC 2160 or 2170	CADD .....	3
ENTC 2200	Machine Tool Technology .....	4
ENTC 2821	Desktop Publishing .....	4
ENTC 3600	Manufacturing Technology .....	3
ENTC 3610	Construction Technology .....	3
ENTC 3650	Applied Electricity .....	4
ENTC 3660	Communication Systems Technology .....	3
ENTC 3670	Energy/Power/Transportation .....	3
ENTC 4287	Introduction to Robotics .....	3
<b>Total: .....</b>		<b>40</b>

**Program Total: ..... 138**

\*Can be completed by passing the UIT Challenge Exam

\*\*Required of all entering students with less than 15 semester hours of college credit.

### Suggested Course Sequence for All B.S. Majors in the Technology Education Concentration

<b>Freshman - First Semester</b>		
ENGL 1010	Critical Reading & Expository Writing .....	3
CSCI 1100	Using Information Technology .....	3
ENTC 1510	Student in the University .....	3
ENTC 1600	Introduction to Technology Education .....	3
ENTC 1110	Engineering Drawing .....	4
EDFN 2100	Orientation to the Profession of Education .....	1
<b>TOTAL</b>		<b>17</b>

<b>Freshman - Second Semester</b>		
ENGL 1020	Critical Thinking/Argumentation .....	3
MATH 1530	Probability & Statistics .....	3
GEOG 1012	Introduction to Cultural Geography .....	3
ENTC 2160 or 2170	CADD .....	3
CHEM 1110/1111	.....	4
PHED 1xxx	(Fitness Activity) .....	1
<b>TOTAL</b>		<b>17</b>

<b>Sophomore - First Semester</b>		
HIST 2010	The United States to 1877 .....	3
ENTC 1610	Woodworking Technology.....	3
ENTC 3660	Communication Systems Technology .....	3
PHYS 2010/2011	General Physics I .....	4
PHIL 1030, 2020, 2210, or WMST 2010	.....	3
PHED 2xxx	(Lifetime Activity) .....	1
<b>TOTAL</b>		<b>17</b>

<b>Sophomore - Second Semester</b>		
HIST 2020	The United States Since 1877 .....	3
ENTC 3030	Technical Communication .....	3
ENTC 3600	Manufacturing Technology.....	3
HDAL 2330	Adolescent Psychology .....	3
PEXS 3500or HUMT 2320	.....	3
EDFN 2300	Foundations for Teaching .....	3
<b>TOTAL</b>		<b>18</b>

<b>Junior - First Semester</b>		
ENTC 2200	Machine Tool Technology.....	4
HDAL 3310	Educational Psychology.....	3
ENTC 3650	Applied Electricity & Electronics .....	4
ENTC 3690	Desktop Publishing .....	4
ENTC 4647	Job Analysis & Curriculum Organization .....	3
<b>TOTAL</b>		<b>18</b>

<b>Junior - Second Semester</b>		
ENGL 2330	World Literature .....	3
ENTC 3020	Technology & Society .....	3
SPED 2300	Exceptional Learners in the Schools .....	3
ENTC 3610	Construction Technology .....	3
EDFN 3301	Issues in Education .....	3
ENTC 4747	Instructional Management in Industrial Education .....	3
<b>TOTAL</b>		<b>18</b>

<b>Senior - First Semester</b>		
ENTC 4767	Coordinating Student Clubs .....	3
ENTC 3670	Energy/Power/Transportation .....	3
ENTC 4287	Introduction to Robotics .....	3
READ 4437	Read Middle/Secondary Schools .....	3
ENTC 4787	Methods of Teaching Vocational/Technical Education .....	3
Institutions & Society Option	.....	3
<b>TOTAL</b>		<b>18</b>

<b>Senior - Second Semester</b>		
CUAI 4580	Directed Student Teaching .....	12
EDFN 4581	Seminar in Education .....	3
<b>TOTAL</b>		<b>15</b>

#### Teacher Education Entrance Requirements:

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 Education Student Services, Room 321, Warf-Pickel Hall. The Declaration of Intent should be filed before 30 semester 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 any professional education courses.

Additionally, students must obtain a designated minimal test score on the PPST, ACT, or SAT and have a 2.5 GPA in 30 earned hours. Course EDFN 3300 must be completed with a grade of 'C' or better and the candidate needs to be successful in the College of Education Admission Board interview.

#### Division of Vocational Education

The Division of Vocational Education is a coordinating unit which provides assistance concerning vocational education matters in the areas of business education, health occupations education, home economics, and trade and industrial education. The division coordinates all curricular and program designs for the bachelor's and master's degrees in these areas.

The division also serves as the contact unit regarding vocational matters between the university and outside persons and/or agencies. Personnel are available for consulting on vocational matters whenever their expertise is needed. This activity is subject to university policy.

All students enrolled in any of the programs for which the Division of Vocational Education serves as coordinator will be enrolled in the College of Applied Science and Technology.

For specific information regarding the division's programs, students should contact the director of the division or the dean of the College of Applied Science and Technology.

#### Programs Available

The Division of Vocational Education offers the following programs:

1. B.S. degree with a major in home economics. (For preparation of secondary home economics education teachers, see Applied Human Sciences.)
2. Trade and industrial and health occupations education. The required 18 semester hours for the professional certification of trade and industrial and health occupations teachers is available in the Department of Technology. Initial endorsement in trade shop is issued by direct application to the Division of Teacher Education and Certification, State Department of Education, Nashville. For further information, see the subheading section of this catalog, titled "Trade and Industry."
3. Minor is offered in Applied Human Sciences.

#### Teacher Education

The division has a state-approved teacher education program for the preparation of teachers in family and consumer sciences, and trade and industrial education. General education, professional education, and other requirements necessary for Tennessee certification may be found under "Teacher Education." Special departmental requirements are listed under the section of this catalog for the respective departments.

#### Trade and Industry Vocational Trade and Industrial Certification

The following courses have been approved by the State Department of Vocational Education and the State Board of Education for the professional certification of trade and industrial teachers. The applicant must complete 18 semester hours which include the following courses:

ENTC 4647	Job Analysis & Curriculum Organization .....	3
ENTC 4747	Instructional Management in Indust. Educ. ....	3
ENTC 4767	Coordinating of Student Clubs & Leadership .....	3
ENTC 4787	Methods of Teaching Voc/Tech Education .....	3
SPED 2300	Exceptional Learners in Schools .....	3
Elective	(consult with advisor) .....	3
<b>Total</b>		<b>18</b>

## College of Arts and Sciences

P.O. Box 70730

Phone: 423/439-5671

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, Political Science, Psychology, Social Work, and Sociology and Anthropology. Interdisciplinary studies are also offered in African and African American Studies, Film Studies and Women's Studies.

The college offers a well-rounded liberal education program which enhances students' ability to lead satisfying personal lives; provides academic background for prospective elementary and secondary teachers; and offers professional training in criminal justice, journalism, and social work. The college's curriculum introduces students to major fields of interest in humanities, social sciences, natural sciences, and selected service professions.

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. Educated people have a stronger level of support for democratic ideals. The abilities provided by liberal education strengthen democratic values and behavior.

### 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; PRE-MEDICAL ILLUSTRATION (Department of Art and Design); concentrations in ADVERTISING, BROADCASTING, JOURNALISM, and PUBLIC RELATIONS (Department of Communication); PRE-LAW; PRE-ENGINEERING; and a variety of MEDICAL PROFESSIONS.

Students following preprofessional programs in Criminal Justice, Pre-Medical Illustration, 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 will be advised through the College of Applied Science and Technology. 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 Medical Professions, such as chiropractic, medicine, optometry, osteopathic medicine, dentistry, physician assistant, podiatric medicine, and veterinary medicine.

Students considering careers in the Medical 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 medical professions advisor provides assistance regarding:

1. proper skills for successful competition in undergraduate and professional schools,
2. standardized test procedures,
3. alternate career opportunities, interview success,
4. timing of coursework and entrance tests, and
5. procedures for application to the medical profession schools.

Direct inquiries concerning medical professions careers to:

Office of Medical Professions Advisement  
P.O. Box 70592, East Tennessee State University  
Johnson City, TN 37614  
(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. These students should consider the General Business Minor (See under Department of Economics, Finance, and Urban Studies, College of Business) as part of their program of study. Students who complete this minor and use free electives within their major to complete business prerequisite coursework should be able to complete the M.B.A. with one additional year of graduate coursework. Interested students should contact the Director of Graduate Programs in the College of Business (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 B.A., B.S., or the B.S. with a social or behavioral sciences concentration. Some of these requirements are in addition to the General Education Core, whereas others specify which courses within the General Education Core must be taken.

	<b>Bachelor of Arts</b>	<b>Bachelor of Science</b>	<b>Bachelor of Science (Concentration for Social &amp; Behavioral Sciences)</b>
Foreign Languages	6 hours of a single language at or above the 2000 level	none	none
Non-U.S. History	3 hours	none	none
Mathematics	MATH 1530, MATH 1820, MATH 1910, or MATH 1840	4 hours, including experience in the differential and integral calculus  (1) MATH 1910, 4 hours (Prerequisite: 2 years high school algebra and 1 year trigonometry or MATH 1720 [3 hours]) OR (2) MATH 1810, 1820, 6 hours (Prerequisite: 2 years high school algebra) OR (3) MATH 1840, 1850, 6 hours (Prerequisite: 2 years high school algebra and 1 year trigonometry or MATH 1720 [3 hours])	MATH 1530
Natural Sciences	See General Education Core	8 hours of single laboratory science in addition to General Education Core (1) ASTR 1010, ASTR 1020 OR (2) BIOL 1110/1111 and 1120/1121 or 1130/1131 OR BIOL 1010/1011, 1020/1021 OR (3) CHEM 1110/1111, 1120/1121 OR (4) GEOG 1110, 1120 OR (5) GEOL 1040, 1050, (labs included) OR (6) PHYS 2010/2011, 2020/2021 OR Higher level laboratory courses in these departments also meet this requirement.	8 hours of single laboratory science  (1) ASTR 1010, ASTR 1020 OR (2) BIOL 1110/1111 and 1120/1121 or 1130/1131 OR BIOL 1010/1011, 1020/1021 OR (3) CHEM 1110/1111, 1120/1121 OR (4) GEOG 1110, 1120 OR (5) GEOL 1040, 1050, (labs included) OR (6) PHYS 2010/2011, 2020/2021 OR Higher level laboratory courses in these departments also meet this requirement.
Statistics and Research Methods	See departmental requirements	See departmental requirements	3 hours from each of the following areas: (1) Social Studies (a) PSYC 2810 OR (b) CJCR 3000 OR (c) SOAA 4387 (2) Reasoning and Argumentation (a) PHIL 2030 OR (b) SPCH 2320 (3) Research Design for Social Sciences (subject to departmental restrictions) (a) PSYC 2311 and 2312 OR (b) PSYC 3030 and 3031 OR (c) CJCR 2000 OR (d) SOAA 3210 or 4627 OR (e) GEOG 2310 or 4807 OR (f) SPCH 3330 (4) Microcomputer Skills (a) SOAA 3444 OR (b) PYSC 3444 OR (c) CJCR 3444

Candidates for the following undergraduate degrees should consult the appropriate section of this catalog: B.F.A. (Studio Art), B.M. (Music), B.S.W. (Social Work).

**African and African American Studies Program (AFAM)**

**P.O. 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 a 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:

HIST 3720	History of Africa .....	3 credits
HIST 3900	African American History to 1877 .....	3 credits
HIST 3901	African American History since 1877 .....	3 credits
SOAA 3110	Minorities .....	3 credits

An additional 9 credits of upper division coursework must be approved by an advisor. At least 3 credits must be in African studies and 3 credits 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. .... 9

**TOTAL ..... 21**

**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 (AFAM)**

AFAM 3989	Cooperative Education .....	3
AFAM 3999	Cooperative Education .....	3
AFAM 4900	Special Studies .....	3
AFAM 4950	Senior Seminar .....	3

**ART (ARTA)**

ARTA 4957	Special Topics on Survey of the Arts of Africa, Ocean and the Americas .....	3
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**Criminal Justice and Criminology (CJCR)**

CJCR 4670	Race, Gender, and Crime .....	3
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**English (ENGL)**

ENGL 4032	African Literature .....	3
ENGL 3400	African American Literature .....	3

**Geography (GEOG)**

GEOG 4307	Regional Geography: Geography of Africa .....	3
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**History (HIST)**

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 (MUSC)**

MUSC 2110	History of Jazz .....	3
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**Sociology and Anthropology (SOAA)**

SOAA 3110	Minorities .....	3
SOAA 4957	Special Topics: Any topic related to Africa or African Americans .....	3

**Appalachian Studies Minor (APST)**

The Appalachian Studies minor is an interdisciplinary program for students who would like to gain a greater appreciation for the history and heritage, problems and potentials of the Appalachian region and who may be interested in pursuing careers in the region. To complete the Appalachian Studies minor, students are required to take Introduction to Appalachian Studies (APST 2060), and Current Issues in Appalachian Studies (APST 4997) and then select 12 credit hours of electives for a total of 18 credit hours. Students are required to take courses in at least two different departments to develop an interdisciplinary study while allowing them to focus on their personal interests in regionally related issues. No more than three credit hours taken as part of the Appalachian Studies minor may be counted toward a major in any field.

Students are encouraged to design a course grouping in consultation with the Appalachian Studies coordinator that suits their own personal and professional interests. The 12 hours of electives should be selected from 1) regularly offered courses, 2) topical or special problems courses, and 3) independent studies courses focusing on regional issues. Independent studies and special problems courses should be arranged in consultation with the instructor and the coordinator of the Appalachian Studies minor. Students wishing to explore the Scottish and Irish heritage of the Appalachian region should enroll in Appalachian, Scottish and Irish Studies (APST 4957/ ENGL 4957) which is co-sponsored by the Center for Appalachian Studies and Services, Department of English, Office of International Programs, and University of Edinburgh.

Possible course groupings include, but are not limited to:

**Regional History and Culture:**

(choose 18 credits total, including APST 2060 and APST 4997)

APST 2060	Introduction to Appalachian Studies .....	3
APST 4997	Current Issues in Appalachian Studies .....	3
SOWK 2400	Social Institutions and Appalachian Culture .....	3
ENGL 3650	American Folklore .....	3
ENGL 4067	Literature of Southern Appalachia .....	3
ENGL 4957	Appalachian, Scottish & Irish Studies .....	3
GEOG 4077	Geography of Southern App. ....	3
HIST 4167	History 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

**Total Credit hours for minor ..... 18**

**Regional Politics and Community Development:**

(choose 18 credits total, including APST 2060 and APST 4997)

SOAA 2060	Introduction to Appalachian Studies .....	3
SOWK 2400	Social Institutions and Appalachian Culture .....	3
HIST 4167	History of Southern Appalachia .....	3
PSCI 4457	Power and Politics in Appalachia .....	3
PSCI 4637	Local and Regional Planning .....	3



PSCI 4827	Politics of Development and Change .....	3
CJCR 4850	Criminal Justice and Family Violence .....	3
PSCI 3710	State and Local Government .....	3
PSCI 3060	Southern Politics .....	3
APST 4997	Current Issues in Appalachian Studies .....	3
APST 4957/ENGL 4957	Appalachian, Scottish & Irish Studies .....	3

**Regional Music and Folk Culture:**

(Choose 18 credits total, including APST 2060 and APST 4997)

APST 2060	Introduction to Appalachian Studies .....	3
MUSC 1280	Bluegrass Band .....	1
*MUSC 1871	Applied Guitar .....	1,2
*MUSC 1881 or 1882	Guitar Class .....	1
SOAA 2040	Folk Culture in the Modern World .....	3
SOAA 4357	Mass Communications & Popular Culture .....	3
MUSC 2120	History of Country Music .....	3
SOAA 4627	Ethnographic Fieldwork Techniques .....	3
READ 4147	Basic Storytelling .....	3
APST 4997	Current Issues in Appalachian Studies .....	3
SOAA 2150/MUSC 2150	American Folk Music .....	3
Total Credit hours for minor .....		18

\*Note: Individual instruction is also available for mandolin, fiddle and oldtime banjo. These courses carry 1 credit hour.

**Regional Environment and Ecology:**

(choose 18 credits total, including APST 2060 and APST 4997)

APST 2060	Intro. to App. Studies .....	3
BIOL 4247	App. Flora .....	3
BIOL 4257	App. Fauna .....	3
GEOG 4077	Geography of Southern App. ....	3
HIST 4167	History of Southern App. ....	3
PSCI 3710	State and Local Government .....	3
APST 4997	Current Issues of App. Studies .....	3

**Regional Arts and Crafts:**

(choose 18 credits total, including APST 2060 and APST 4997)

APST 2060	Intro. to App. Studies .....	3
ARTA 2071 or 3071	Weaving .....	3
ARTA 3073	Fiber Construction for Weaving .....	3
ARTA 3380	Vegetable Dyeing .....	3
ARTA 3091 or 3092	Ceramics .....	3
HIST 4167	History of Southern App. ....	3
ENGL 4067	Literature of Southern App. ....	3
SOAA 4357	Mass Comm. & Popular Culture .....	3
APST 4997	Current Issues in App. Studies .....	3

**Statement of Purpose**

The Department of Art and Design has the responsibility to provide education of high quality in the professional art and art education 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., B.S., 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 desire a career as an elementary or secondary art teacher. There is a concentration under the B.S. degree in pre-medical illustration. The B.A. is also 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, art education, 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, art education, painting, drawing, sculpture, printmaking, commercial art, graphic design, photography, ceramics, fibers, and jewelry and metalsmithing.

An approved teacher education program for K-12 teachers is available. Art majors must take the following art courses during the freshman year:

**Semester I**

ARTA 1110	2-D Design .....	3
ARTA 1201	Drawing .....	3
ARTA 2010	Art History Survey I .....	3

**Semester II**

ARTA 1140	3-D Design .....	3
ARTA 1204	Color Theory .....	3
ARTA 2020	Art History Survey II .....	3

Teacher education students should see that section for details. 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 take the Works in Progress Review. The student must pass this review in order to 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.

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

**P.O. 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.**

**Course Requirements:**

The General Education Core courses are listed earlier in this catalog. The following art courses are required in addition to those taken during the freshman year:

**B.F.A. REQUIREMENTS**

ARTA 1201	Drawing Fundamentals	3
ARTA 1110	2-D Design	3
ARTA 1204	Color Theory	3
ARTA 1140	3-D Design	3
ARTA 2010	Art History I (satisfies Humanities)	3
ARTA 2020	Art History II (satisfies Art & Artistic Vision)	3
Six 2000-level studio courses approved for area concentration		18
Three 4000-level Art History courses with one selected from either ARTA 4067 or ARTA 4077		9
Works in Progress Review (taken after 36 & before 45 ARTA credits)		
Six 3000-level studio courses approved for area of concentration		18
Nine 4000-level studio courses approved for area of concentration		27
One ARTA studio elective		1
ARTA 4916	Portfolio & Exhibit	3
Plus additional General Education Requirements (approx. Credit)		37
P.E. Requirements		2
<b>Total (approx.):</b>		<b>133 credits</b>

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 133 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. In that event the student should discuss this option carefully with the appropriate advisor. A student may major in art and minor in another department or major and minor in art. The B.A. degree requires completion of a foreign language at the second-year level. (See the College of Arts and Sciences B.A. degree requirements.)

**Course Requirements** – The General Education Core Requirements are listed earlier in this catalog. The following art courses are required in addition to those in the freshman year:

**B.A. ART HISTORY REQUIREMENTS**

ARTA 1201	Drawing Fundamentals	3
ARTA 1110	2-D Design	3
ARTA 1204	Color Theory	3
ARTA 1140	3-D Design	3
ARTA 2010	Art History I (satisfies Humanities)	3
ARTA 2020	Art History II (satisfies Art & Artistic Vision)	3
Four studio courses 2000-level or above		12
Six electives in minor area		18
Eight 4000-level Art History courses		24
General Education Requirements (approx. Credit)		39
P.E. Requirements		2

Non-U.S. History	3
Language Requirements equivalent to the completion of two years of college level language proficiency. French or German are recommended languages and should be taken in first two years of program.	12
<b>Total (approx.):</b>	<b>128 credits</b>

The B.A. degree in Art History requires a total of approximately 132 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.

B.A. Art Education students should select ARTA 4067 or 4077 as one of the two 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 130 credit hours.

**B.A. STUDIO REQUIREMENTS**

ARTA 1201	Drawing Fundamentals	3
ARTA 1110	2-D Design	3
ARTA 1204	Color Theory	3
ARTA 1140	3-d Design	3
ARTA 2010	Art History I (satisfies Humanities)	3
ARTA 2020	Art History II (satisfies Art & Artistic Vision)	3
Six 2000-level studio courses		18
Three 4000-level Art History courses with one selected from either ARTA 4067 or ARTA 4077		9
Eleven 3000- and 4000-level studio courses		33
Plus additional General Education Requirements (approx. credits)		39
P.E. Requirements		2
Non-U.S. History		3
Language Requirement equivalent to the completion of two years of college-level language proficiency		12
<b>Total (approx.):</b>		<b>134</b>

**B.A. STUDIO WITH NON-ART MINOR REQUIREMENTS**

ARTA 1201	Drawing Fundamentals	3
ARTA 1110	2-D Design	3
ARTA 1204	Color Theory	3
ARTA 2010	Art History I (satisfies Humanities)	3
ARTA 2020	Art History II (satisfies Art & Artistic Vision)	3
Three 2000-level studio courses		9
Three 4000-level Art History courses with one selected from either ARTA 4067 or ARTA 4077		9
Seven 3000- and 4000-level studio courses		21
Minor Requirements from Non-Art Area		18
Plus additional General Education Requirements (approx. credits)		39
P.E. Requirements		2
Non-U.S. History		3
Language Requirements equivalent to the completion of two years of college level language proficiency		12
<b>Total (approx.):</b>		<b>131</b>

**B.S. with Major in Art  
Pre-Medical Illustration Concentration**

The pre-medical illustration concentration is designed to provide education for entry into the biomedical illustration and communication job market and as preparation for graduate work at the master's level in medical illustration and communication. In addition to specified courses in art, a minor in biology is required. The student must develop a strength in

representational rendering and keep above-average grades in science courses. Check with the Department of Art and Design for an advisor. The B.S. degree in Pre-Medical Illustration requires a total of approximately 136 credit hours.

**B.S. PRE-MEDICAL ILLUSTRATION REQUIREMENTS**

ARTA 1201	Drawing Fundamental .....	3
ARTA 1110	2-D Design .....	3
ARTA 1204	Color Theory .....	3
ARTA 1140	3-D Design .....	3
ARTA 2010	Art History I (satisfies Humanities) .....	3
ARTA 2020	Art History II (satisfies Art & Artistic Vision) .....	3
Four 2000-level Studio courses approved for area of concentration .....		12
Two 4000-level Art History courses .....		6
Six 3000-level Studio courses approved for area of concentration .....		18
Five 4000-level Studio courses approved for area of concentration .....		15
ARTA 4901	Bio-Medical Illustration Internship (application must be made with advisor one semester in advance) .....	4
BIOL 1110/1111	BIOL SCI Majors Lec.I & Lab .....	4
BIOL 1120/1121	BIOL SCI Majors Lec. II & Lab .....	4
BIOL 1130/1131	BIOL SCI Majors Lec. III & Lab .....	4
PUBH 2750	Medical Terminology .....	3
HSCI 3000	Human Anatomy .....	4
BIOL 3220	Comparative Anatomy .....	4
HSCI 3020	Human Physiology .....	4
General Education Requirements (approx. Credits) .....		36
P.E. Requirements .....		2
<b>Total (approx.): .....</b>		<b>136</b>

**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 semester hours.

**Teacher Education**

Students interested in pursuing a teacher education program for certification as an art teacher are asked to see the area advisor in the Department of Art and Design 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 semester 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 43 credit hours required for Professional Education. Please refer to the Professional Education Requirement section in the Department of Education in this catalog for a list of the required courses. The B.A. degree in Art Education requires a total of approximately 145 credit hours.

**Content Courses in the Department of Art and Design for teacher licensure** – Please inquire at the department office for an art education program form.

**B.A. ART EDUCATION REQUIREMENTS**

ARTA 1201	Drawing Fundamentals .....	3
ARTA 1110	2-D Design .....	3
ARTA 1204	Color Theory .....	3
ARTA 1140	3-D Design .....	3
Six 2000 Studio courses (see advisor for selection) .....		18
ARTA 3321	Art Experiences with Children .....	3
ARTA 2020	Art History Survey II .....	3
Two 4000-level Art History (with one from either ARTA 4067 or ARTA 4077) .....		6
ARTA 4330	Elementary School Art .....	3
One 3000-level Studio course .....		3
Professional Education Requirements: (see Dept. of Education section of this catalog to select appropriate General Education courses that would fulfill licensure programs) .....		
Language Requirements equivalent to the completion of two years college-level language proficiency .....		12
Non-U.S. History .....		3
P.E. Requirements .....		2
<b>Total (approx.): .....</b>		<b>145</b>

**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 704-765-2359 or write to:

Registrar  
 Penland School of Crafts  
 Penland, NC 38765

## Department of Biological Sciences (BIOL)

P.O. Box 70703

Phone: 423/439-4329

The Department of Biological Sciences offers a major in biology leading to the bachelor of science or the bachelor of arts degrees. The major is designed for students who plan to enter such professions as biology, 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 M.S. in biology. Further information on graduate programs is contained in the Graduate Catalog.

In addition to the requirements listed below, a student majoring in biology must complete requirements for the General Education Program and the College of Arts and Sciences requirements for the B.A. or the B.S. degree.

### Biology Major

In addition to certain required science and math courses the "standard" Biology major requires 36 semester hours of approved biology courses; a student choosing this major must also complete a minor. An alternative "concentration" in Biology requires 50 semester hours of biology courses; a student meeting that requirement need not complete a minor. In addition, there are two specialized alternative curricula that may be followed for a Biology major: Secondary Biology Education, which requires a minor or a 50-hour concentration (as above); and Biochemistry Concentration, which does not require a minor. The Biochemistry curriculum is for B.S. only.

### Advising

Students should consult one of the following advisors when planning their curricula:

"Standard" Biology Majors .....	Carolyn Wetzel
"Concentration" in Biology .....	Carolyn Wetzel
Secondary Biology Education .....	Dan M. Johnson
Biology Honors Program .....	Karl Joplin
Biochemistry Concentration .....	Lee M. Pike
Pre-professional students .....	J. Leonard Robertson
General advising .....	Dan M. Johnson

### Biology Minor

A minor consists of 24 semester hours. The courses required are:

BIOL 1110/1111	Biology for Science Majors I and Lab .....	4
BIOL 1120/1121	Biology for Science Majors II and Lab .....	4
BIOL 1130/1131	Biology for Science Majors III and Lab .....	4
BIOL 3100	General Genetics .....	3

The remaining courses may be selected to reflect the student's interests. Credit for the following courses will not apply toward a major or minor in the department:

BIOL 1000	Academic Advantage .....	2
BIOL 1010/1011	Biology for Non-majors I .....	4
BIOL 1020/1021	Biology for Non-majors II .....	4
BIOL 4417	Teaching Biology in High School .....	3

### General Education

**General Interest Area** – The following courses are designed to satisfy the university's General Education Curriculum requirements in Science, specific educational requirements, or may be taken for general interest.

### Biology for Non-majors Lecture and Laboratory I, and II

BIOL 1010/1011	Ecology/Evolution/Behavior .....	4
BIOL 1020/1021	Reproduction/Growth/Genetics/ Biotechnology .....	4

### Biology for Science Majors Lecture and Laboratory I, II, and III

BIOL 1110/1111	Cytology/Genetics AND .....	4
BIOL 1120/1121	Organismal OR .....	4
BIOL 1130/1131	Ecology/Evolution .....	4

### BIOLOGY CURRICULUM

#### Required Courses:

CHEM 1110/1111	General Chemistry I & Lab .....	4
CHEM 1120/1121	General Chemistry II & Lab .....	4
CHEM 2010/2011	Organic Chemistry I & Lab .....	5
CHEM 2020/2021	Organic Chemistry II & Lab .....	5
MATH 1530	Probability and Statistics - Non-Calculus (for B.A.) .....	3
MATH 1910	Calculus I & MATH 1530 (for B.S.) .....	7
or		
MATH 1910 and 1920	Calculus I and II (for B.S.) .....	8
PHYS 2010/2011, 2020/2021	General Physics- Non-Calculus .....	8
or		
PHYS 2110/2120	Technical Physics - Calculus based .....	10
BIOL 1110/1111	Biology for Science Majors I & Lab .....	4
BIOL 1120/1121	Biology for Science Majors II & Lab .....	4
BIOL 1130/1131	Biology for Science Majors III & Lab .....	4
BIOL 3100	General Genetics .....	3

**Advanced Biology:** Four courses at the 3000 or 4000 level.

Select one from each of the areas listed.

#### Molecular Level:

BIOL 3150/3151	Cell Biology & Lab .....	5
BIOL 4147/4157	Biochemistry of Macromolecules and Lab .....	5
BIOL 4167/4177	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 3320/3321	General Microbiology & Lab .....	4

The remaining courses may be selected to reflect the student's interest to reach a total of at least 36 semester hours of BIOL for the "standard" major or 50 for the "concentration."

**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 (Dan Johnson) and professional advisors in the Office of Student Services, 321 Warf-Pickel, College of Education (Michelle Banner and Jack Rhoton, Curriculum and Instruction).

**Required Courses:**

CHEM 1110/1111	General Chemistry I.....	4
CHEM 1120/1121	General Chemistry II .....	4
MATH 1530	Probability and Statistics - Non-Calculus (for B.A. and B.S.) .....	3
and		
MATH 1910	Calculus I (for B.S. only) .....	4
PHYS 2010/2011	General Physics I - Non-Calculus .....	4
PHYS 2020/2021	General Physics II - Non-Calculus .....	4
GEOL 1040, 1050	Physical Geology/Historical Geology .....	8
or		
GEOG 1110, 1120	Earth Science .....	8
BIOL 1110/1111	Biology for Science Majors I .....	4
BIOL 1120/1121	Biology for Science Majors II .....	4
BIOL 1130/1131	Biology for Science Majors III .....	4
BIOL 3100	General Genetics .....	3

**Molecular Level** – Select one course from below:

HSCI 3030/3031	Intro. Biochemistry* .....	4
BIOL 3150/3151	Cell Biology & Lab .....	5
BIOL 4147/4157	Biochemistry of Macromolecules and Lab** .....	5
BIOL 4167/4177	Biochemistry of Metabolism and Lab** .....	5
BIOL 4597	Recombinant DNA Lab and .....	
BIOL 4647	Molecular Biology .....	6

**Organismal Level** – Select one course from below:

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** – Select one course from below:

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** – Select two courses from below:

BIOL 3410	Vertebrate Zoology .....	4
BIOL 3420	Plant Biology .....	4
BIOL 3460	Invertebrate Zoology .....	4
BIOL 3480	General Entomology .....	4
BIOL 4450	Bryophytes, Ferns, & Seed Plants .....	4
HSCI 2230/2231	Intro to Microbiology and Lab .....	4
or		
HSCI 3320/3321	General Microbiology and Lab .....	4

\*This Introduction to Biochemistry may not satisfy the requirements of graduate schools or professional schools which generally require Organic Chemistry (CHEM 2010/2011, 2020/2021).

\*\*These Biochemistry courses have an organic chemistry prerequisite.

The remaining courses may be selected to reflect the student's interest to reach a total of at least 36 semester hours of BIOL for the "standard" major or 50 for the "concentration."

**BIOCHEMISTRY CONCENTRATION CURRICULUM**

This is a joint program with the Department of Chemistry (College of Arts & Sciences) and the Department of Biochemistry (Quillen College of Medicine). The student may major in either Biology or Chemistry. Courses are required 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.

**Required Courses:**

All students pursuing a biology major must take the following courses:

BIOL 1110/1111	Biology for Science Majors I.....	4
BIOL 1120/1121	Biology for Science Majors II .....	4
BIOL 1130/1131	Biology for Science Majors III .....	4
BIOL 3100	General Genetics .....	3
BIOL 3141	Genetics Laboratory .....	2
BIOL 4147/4157	Biochemistry of Macromolecules and Lab ...	5
BIOL 4167/4177	Biochemistry of Metabolism and Lab .....	5
CHEM 1110/1111, 1120/1121	General Chemistry I and II .....	4, 4
CHEM 2010/2011, 2020/2021	Organic Chemistry .....	3/2,3/2
CHEM 2220/2221	Quantitative Analysis .....	4
CHEM 3611	Introduction to Integrated Lab .....	2
CHEM 3710	Principles of Physical Chemistry .....	3
or		
CHEM 3750	Physical Chemistry I .....	3
MATH 1910, 1920	Calculus .....	4, 4
PHYS 2010/2011, 2020/2021	Gen. Physics -Non-Calculus I, II .....	4, 4
or		
PHYS 2110, 2120	Tech. Physics-Calculus based I, II .....	5, 5

The Biology major with a biochemistry concentration must complete an additional 9 hours in biology. Four (4) of those hours must be selected from the following courses:

BIOL 3150/3151	Cell Biology & Lab .....	5
BIOL 4597	Recombinant DNA Laboratory .....	3
BIOL 4647	Molecular Biology .....	3
HSCI 3320/3321	General Microbiology and Lab .....	4
HSCI 3540	Immunology .....	3
PHYS 3510	Biophysics .....	3

To satisfy the Biology degree requirements, students must select at least one (1) course from two (2) of the advanced biology areas (Organismal level, Population level, or Biodiversity level). See Biology curriculum requirements.

Approved students may enroll in one of the following courses in the Department of Biochemistry 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
BIOC 4900	Special Problems in Biochemistry
BIOL 4900	Independent Study
CHEM 4900	Research in Chemistry

**Suggested Curriculum for Biology Major  
Typical Program of Study**

**Freshman - Fall Semester**

BIOL 1110/11	Biology for Science Majors Lecture/Lab I	4
CHEM 1110/11	General Chemistry Lecture/Lab I	4
MATH 1910	Calculus I	4
General Education Requirements		3
PHED 1	Fitness	1
<b>TOTAL</b>		<b>16</b>

**Freshman - Spring Semester**

BIOL 1120/21	Biology for Science Majors Lecture/Lab II	4
CHEM 1120/21	General Chemistry Lecture/Lab II	4
MATH 1920	Calculus II	4
General Education Requirements		3
CSCI 1100	Using Information Technology	3
<b>TOTAL</b>		<b>18</b>

**Sophomore - Fall Semester**

BIOL 1130/31	Biology for Science Majors Lecture/Lab III	4
CHEM 2010	Organic Chemistry Lecture I	3
CHEM 2011	Organic Chemistry Lab I	2
PHYS 2010	General Physics Lecture I	3
PHYS 2011	General Physics Lab 1	1
General Education Requirements		3
PHED 2XXX	Lifetime	1
<b>TOTAL</b>		<b>17</b>

**Sophomore - Spring Semester**

BIOL 3100	General Genetics Lecture	3
CHEM 2020	Organic Chemistry Lecture II	3
CHEM 2021	Organic Chemistry Lab II	2
PHYS 2020	General Physics Lecture II	3
PHYS 2021	General Physics Lab II	1
General Education Requirements		3
<b>TOTAL</b>		<b>15</b>

**Junior - Fall Semester**

Advanced Biology Menu Course #1	4
Minor Courses 1 and 2	6
General Education Requirements	6
<b>TOTAL</b>	<b>16</b>

**Junior - Spring Semester**

Advanced Biology Menu Course #2	4
Minor courses 3 and 4	6
General Education Requirements	6
<b>TOTAL</b>	<b>16</b>

**Senior - Fall Semester**

Advanced Biology Menu course #3	4
Minor Course 5 and 6	6
General Education Requirements	6
<b>TOTAL</b>	<b>16</b>

**Senior - Spring Semester**

Advanced Biol. Menu Course #4	4
BIOL Electives	5
General Education Requirements	6
<b>TOTAL</b>	<b>15</b>

**Total credit hours = 129; Total BIOL credit hours = 36**

\*A student may choose to complete 50 hours of biology courses in lieu of a "minor".

\*For B.A. only MATH 1530 is required. For B.S. MATH 1530 may be substituted for MATH 1920.

\*PHYS 2110/2120 (Technical Physics) may be substituted for 2010/2011.

\*If minor area course requirements and general education required courses are completed prior to the Senior year, electives may be substituted.

**Suggested Curriculum for  
Biology Major  
Biochemistry Concentration**

**Freshman - Fall Semester**

BIOL 1110/11	Biology for Science Majors Lecture/Lab I	4
CHEM 1110/11	General Chemistry Lecture/Lab I	4
MATH 1910	Calculus I	4
General Education Requirements		4
<b>TOTAL</b>		<b>16</b>

**Freshman - Spring Semester**

BIOL 1120/21	Biology for Science Majors Lecture/Lab II	4
CHEM 1120/21	General Chemistry Lecture II	4
MATH 1920	Calculus II	4
General Education Requirements		5
<b>TOTAL</b>		<b>17</b>

**Sophomore - Fall Semester**

BIOL 1130/31	Biology for Science Majors Lecture/Lab III	4
CHEM 2010	Organic Chemistry Lecture I	3
CHEM 2011	Organic Chemistry Lab I	2
PHYS 2010	General Physics Lecture I	3
PHYS 2011	General Physics Lab 1	1
General Education Requirements		4
<b>TOTAL</b>		<b>17</b>

**Sophomore - Spring Semester**

BIOL 3100	General Genetics Lecture	3
BIOL 3141	General Genetics Lab	2
CHEM 2020	Organic Chemistry Lecture II	3
CHEM 2021	Organic Chemistry Lab II	2
PHYS 2020	General Physics Lecture II	3
PHYS 2021	General Physics Lab I	1
General Education Requirements		3
<b>TOTAL</b>		<b>17</b>

**Junior - Fall Semester**

BIOL 4147	Biochemistry of Macromolecules	3
BIOL 4157	Biochemistry of Macromolecules Lab	2
Advanced Biology Courses		3-4
General Education Requirements		6
Electives		4
<b>TOTAL</b>		<b>18-19</b>

**Junior - Spring Semester**

BIOL 4167	Biochemistry of Metabolism	3
BIOL 4177	Biochemistry of Metabolism Lab	2
CHEM 2220	Quantitative Analysis Lecture	2
CHEM 2221	Quantitative Analysis Lab	2
Advanced Biology Course		3-4
General Education Requirements		6
<b>TOTAL</b>		<b>18-19</b>

**Senior - Fall Semester**

Advanced Biology Course		3-5
General Education Requirements		3
Electives		10
<b>TOTAL</b>		<b>16-18</b>

**Senior - Spring Semester**

CHEM 3710	Principles of Physical Chem	3
CHEM 3611	Introduction to Integrated Lab	2
Advanced Biology Course		2-3
General Education Requirements		3
Electives		6
<b>TOTAL</b>		<b>16-17</b>

**Total credit hours** ..... 133-138

**PROGRAM OPTIONS:**

**Physics.** Students may take Technical Physics I and II (PHYS 2110/2120, 10 hours) rather than General Physics I and II (PHYS 2010/2011 and PHYS 2020/2021, 8 hours).

**Chemistry.** Students may take Physical Chemistry I and II (CHEM 3750/3760, 6 hours) and Advanced Integrated Lab (CHEM 4611, 4621, or 4631, 2 hours), rather than Principles of Physical Chemistry (CHEM 3710., 3 hours). Additional chemistry courses are available:

CHEM 3110	Descriptive Inorganic	3
CHEM 4200	Principles of Instrumental Analysis	3

**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 listed courses 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

**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. Independent Study (**Department of Biological Sciences**, BIOL 4900, 1-4 hours), Research in Chemistry (**Department of Chemistry**, CHEM 4900, 1-3 hours), or Special Problems (**Department of Biochemistry**, BIOC 4900, 2-5 hours), can be taken during the senior year and/or during the preceding summer. Faculty members from the departments of biochemistry, biological sciences, or chemistry may direct the research project. It is expected that a departmental seminar will be presented based upon the research.

**Department of Chemistry (CHEM)**

**P.O. 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.

<b>GENERAL EDUCATION</b>	<b>45 Credits</b>	
ENGL 1010	Critical Reading & Expository Writing	3
ENGL 1020	Critical Thinking & Argumentation	3
MATH 1910 *	Calculus I	4
CSCI 1100	Using Information Technology	3
Science fulfilled in Major		8
HIST 2010	United States to 1877	3
HIST 2020	United States since 1877	3
Plus one of the ENGL courses listed under <b>Heritage</b>		3
Select one course from the <b>Arts &amp; Artistic Vision</b>		3
Select one course from <b>Identity, Ethics &amp; Social Respons.</b>		3
Select two courses from <b>Institutions &amp; Society</b>		6
Select one unduplicated course from the <b>Humanities Elective 3</b>		3

\*MATH 1840 or 1850 acceptable for Chemistry concentration.

**Intensive Courses** - Students who enter ETSU as a freshman or with less than 60 transfer hours must take: two oral communication-intensive courses, of which one must be in the major or minor; one using information technology-intensive course in the major or minor; four writing-intensive courses; at least two must be in the major or minor; at least two must be in the 3000-4000 level. Students must meet proficiency-intensive requirements through courses taken at ETSU.

**Physical Education** ..... **2**

Two courses, one from the fitness activity category and one from the lifetime activities category.

**Chemistry** – This is the recommended concentration for preprofessional students and students preparing for chemically-oriented occupations. This concentration requires a minimum of 33 semester hours of study.

A minor is required with this concentration.

**Course Requirements**

CHEM 1110/1111, 1120/1121	General	8
CHEM 2220/2221	Quantitative Analysis	4
CHEM 2010/2011, 2020/2021	Organic Chemistry	10
CHEM 3710 or 3750	Physical	3
CHEM 3611	Intro. to Integrated Lab	2

Plus an additional six hours of upper division courses in the Chemistry Department.

**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 semester hours is required.

A minor is required with this concentration.

**Course Requirements**

CHEM 1110/1111, 1120/1121	General	8
CHEM 2220/2221	Quantitative Analysis	4
CHEM 3110	Descriptive Inorganic	3
CHEM 2010/2011, 2020/2021	Organic Chemistry	10
CHEM 3750/3760	Physical	6
CHEM 3611	Intro. Integ. Lab	2
CHEM 4110	Advanced Inorganic	3
CHEM 4200	Princ. of Inst. Analysis	3
CHEM 4611	Adv. Integ. Lab/Dyn.	2*
CHEM 4621	Adv. Integ. Lab./Str.	2*
CHEM 4631	Adv. Integ. Lab./An. Tech.	2*
CHEM 4010	Seminar	2

Also required are:

MATH 1910/1920	Calculus	8
PHYS 2010/2011, 2020/2021	Gen Physics-Non-Calculus	8
or		
PHYS 2110/2120	Tech. Physics-Calc. based	10

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

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.

**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 semester 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 1110/1111). 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

**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 student should consult frequently with an advisor to ensure completion in a judicious manner. The biology advisors are Pike and McIntosh. The chemistry advisor is Richard Kopp.

A minor is not required with this concentration.

### Course Requirements

All students pursuing a chemistry major must take the following courses:

BIOL	1110/1111, 1120/1121, 1130/1131	Biology for Science Majors .....	12
BIOL	3100	Gen. Genetics .....	3
BIOL	3141	Genetics Lab .....	2
BIOL	4147, 4157	Gen. Biochemistry .....	5
BIOL	4167, 4177	Gen. Biochemistry .....	5
CHEM	1110/1111, 1120/1121	Gen. Chemistry .....	8
CHEM	2010/2011, 2020/2021	Organic Chemistry .....	10
CHEM	2220/2221	Quantitative Analysis .....	4
CHEM	3750, 3760	Physical Chemistry .....	6
CHEM	3611	Intro. Integ. Lab .....	2
CHEM	4611, 4621, or 4631	Adv. Integ. Lab .....	(2 credits each)
MATH	1910, 1920	Calculus .....	8
PHYS	2010/2011, 2020/2021	Gen. Physics-Non-Calculus .....	8
PHYS	2110, 2120	Tech. Physics-Calculus based .....	10

The chemistry major with a biochemistry concentration must select 6 credit hours from:

BIOL	3150/3151	Cell Biology .....	5
BIOL	4647	Molecular Biology .....	3
BIOL	4597	Recombinant DNA Lab .....	3
HSCI	3320/3321	General Microbiology .....	4
HSCI	3540	Immunology .....	3
PHYS	3510	Biophysics .....	3

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 semester 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 semester 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 44 credit hours required for Professional Education. Please refer to the Professional Education Requirement section in the Department of Education in this catalog for a list of the required courses.

**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.

### Suggested Sequence of Courses for Chemistry Professional and ACS Approved Chemistry Concentrations

#### Freshman - Fall Semester

CHEM	1110/11	General Chemistry I .....	4
MATH	1910	Calculus I .....	4
ENGL	1010	Critical Reading & Expository Writing .....	3
CSCI	1100	Using Information Technology .....	3
General Education		Core/Electives .....	3-5
<b>TOTAL</b>			<b>17</b>

#### Freshman - Spring Semester

CHEM	1120/21	General Chemistry II .....	4
MATH	1920	Calculus II .....	4
ENGL	1020	Critical Thinking & Argumentation .....	3
General Education		Core/Electives .....	5
<b>TOTAL</b>			<b>16</b>

#### Sophomore - Fall Semester

CHEM	2010/11	Organic I .....	5
PHYS	2010/11	Physics I .....	4
General Education		Core/Electives .....	7
<b>TOTAL</b>			<b>16</b>

#### Sophomore - Spring Semester

CHEM	2020/21	Organic II .....	5
CHEM	2220/21	Quantitative Analysis .....	4
PHYS	2020/21	Physical II .....	4
General Education		Core/Electives .....	3
<b>TOTAL</b>			<b>16</b>

#### Junior - Fall Semester

CHEM	3110	Descriptive Inorganic .....	3
CHEM	3750	Physical I .....	2
CHEM	3611	Introductory Integrated Lab .....	2
General Education		Core/Electives/	
Advanced Chemistry		Electives .....	8
<b>TOTAL</b>			<b>16</b>

#### Junior - Spring Semester

CHEM	3760	Physical II .....	3
CHEM	46 --	*Advanced Integrated Lab .....	2
General Education		Core/Elective	
Advanced Chemistry		Electives .....	11
<b>TOTAL</b>			<b>16</b>

#### Senior - Fall Semester

CHEM	4200	Principles of Instrumental Analysis .....	3
CHEM	46 --	*Advanced Integrated Lab2 .....	2
Electives/Advanced		Chemistry Electives .....	11
<b>TOTAL</b>			<b>16</b>



**Senior - Spring Semester**

CHEM 4110	Advanced Inorganic .....	3
CHEM 46 --	*Advanced Integrated Lab .....	2
CHEM 4010	Seminar .....	2
Electives/Advanced	Chem Electives** .....	9
<b>TOTAL</b>	.....	<b>16</b>

\*Integrated Labs 4611, 4621, 4631 may be taken in any order. Two of three required for CHEMISTRY PROFESSIONAL, all three required for ACS-APPROVED CHEMISTRY.

\*\*Six hours of advanced chemistry courses required for ACS-APPROVED CHEMISTRY concentration.

Significant deviations from this suggested schedule should be discussed with the Chemistry Advisor.

**SUGGESTED SEQUENCE OF COURSES FOR CHEMISTRY CONCENTRATION**

**Freshman - Fall Semester**

CHEM 1110/11	General I .....	4
MATH 1840/1850 or 1910	.....	3-4
ENGL 1010	Critical Reading & Expository Writing .....	3
CSCI 1100	Using Information Technology .....	3
General Education	Core/Electives .....	3-6
<b>TOTAL</b>	.....	<b>16</b>

**Freshman - Spring Semester**

CHEM 1120/21	General II .....	4
ENGL 1020	Critical Thinking & Argumentation .....	3
General Education	Core/Electives .....	9
<b>TOTAL</b>	.....	<b>16</b>

**Sophomore - Fall Semester**

CHEM 2010/11	Organic I .....	5
General Education	Core/Electives1 .....	1
<b>TOTAL</b>	.....	<b>16</b>

**Sophomore - Spring Semester**

CHEM 2020/21	Organic II .....	5
CHEM 2220/21	Quantitative Analysis .....	4
General Education	Core/Electives .....	7
<b>TOTAL</b>	.....	<b>16</b>

**Junior - Fall Semester**

General Education	Core/Electives/	
Advanced Chemistry	Electives** .....	16
<b>TOTAL</b>	.....	<b>16</b>

**Junior - Spring Semester**

CHEM 3710	Principles of Physical Chemistry* .....	3
CHEM 3611	Introductory Integrated Lab .....	2
General Education	Core/Electives/	
Advanced Chemistry	Electives** .....	11
<b>TOTAL</b>	.....	<b>16</b>

**Senior - Fall Semester**

General Education	Core/Electives/	
Advanced Chemistry	Electives** .....	16
<b>TOTAL</b>	.....	<b>16</b>

**Senior - Spring Semester**

General Education	Core/Electives/	
Advanced Chemistry	Electives** .....	16
<b>TOTAL</b>	.....	<b>16</b>

\* CHEM 3750 may be substituted for CHEM 3710. Physics & Calculus required.

\*\*Six hours of advanced chemistry courses are required.

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, 128 semester 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 degree program offers a traditional major as a base for preprofessional study as a supporting program for career preparations in fields such as business, church operation, government service, health administration, the ministry, paralegal services, social service, and other professions involving public contact. It also provides pre-law preparation.

The speech communication concentration major requires 36-38 credit hours of coursework; the minor, 21 credits hours. A teacher education major in speech communication requires 29 credit hours; the minor, 24 credit hours.

**Theatre** — The Division of Theatre believes that classroom study and practical experience are of equal and complementary value. Production opportunities are available in acting and directing, design, theatre technology, and management in our Bud Frank Theatre and in the historic Veteran's Memorial Theatre.

The Division of Theatre produces at least four productions per school year as well as producing plays and a Renaissance Faire in Rogersville during the summer. Within the Department of Communication, students have the option to select one of the following: a 36-hour Theatre Concentration; a 21-hour Theatre Minor; or a 36-hour Theatre Concentration in Teacher Education.

**Mass Communications** — The concentrations in advertising and broadcasting consist of prescribed sequences of 33 semester hours of coursework. The journalism and public relations concentrations require 36 credit hours in mass communications, and public relations also requires nine credit hours in speech.

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.

<b>Sequence</b>	.....	<b>Advisor</b>
Advertising	.....	Charles Roberts
Broadcasting	.....	Dan Brown
Journalism	.....	Jack Mooney
Public Relations	.....	John King
Speech	.....	Amber Kinser
Theatre	.....	Bobby Funk

**Department of Communication**

**P.O. Box 70667** **Phone: 423/439-4491**

**Web Address: [www.etsu.edu/cas/comm](http://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

**Course Requirements for  
Mass Communications Majors**

**Advertising Concentration**

MCOM 1030	Intro. 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
<b>Total:</b>	<b>.....</b>	<b>33</b>

**Broadcasting Concentration**

**Broadcast Management Sequence**

MCOM 1030	Intro. to Mass Communications .....	3
RTVF 2600	Survey of Broadcasting .....	3
RTVF 2604/4604	Radio/TV Laboratory .....	3
ADVR 3260	Radio/TV Advertising .....	3
RTVF 3651	Radio Production or Television Production .....	3
RTVF 3661	Television Production .....	3
RTVF 3671	Broadcast Programming .....	3
MCOM 4037	Communications Law .....	3
RTVF 4690	Broadcast Management .....	3
MCOM	Electives approved by advisor .....	9
<b>Total:</b>	<b>.....</b>	<b>33</b>

**Broadcast News Sequence**

MCOM 1030	Intro. 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
<b>Total:</b>	<b>.....</b>	<b>33</b>

**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
<b>Total:</b>	<b>.....</b>	<b>33</b>

**Journalism Concentration**

MCOM 1030	Intro. to Mass Communications .....	3
JOUR 2050	History and Issues of Journalism.....	3
JOUR 2120	Writing for Print Media I .....	3
JOUR 2130	Writing for Print Media II .....	3
JOUR 3130	In-Depth Reporting .....	3
JOUR 3150	Copy Editing .....	3

JOUR 3160	Newspaper Design .....	3
JOUR 3301	Photojournalism .....	3
MCOM 4037	Communications Law .....	3
JOUR 4107	Reporting Public Affairs .....	3

One of the following craft courses .....

JOUR 3120	Opinion Writing .....	3
JOUR 3350	Advanced Photojournalism .....	3
JOUR 4080	Journalism Internship .....	3
JOUR 4957	Topics in Journalism .....	3

One of the following conceptual courses .....

MCOM 3070	Mass Media and Society .....	3
MCOM4007	Seminar in Mass Communications .....	3
<b>Total:</b>	<b>.....</b>	<b>36</b>

**Minor — Journalism Concentration**

JOUR 2050	History and Issues of Journalism.....	3
JOUR 2120	Writing for Print Media I .....	3
JOUR 2130	Writing for Print Media II .....	3
JOUR 3150	Copy Editing .....	3
JOUR 3160	Newspaper Design .....	3
MCOM 4037	Communications Law .....	3

Two of the following .....

JOUR 3120	Opinion Writing .....	3
JOUR 3130	In-Depth Reporting .....	3
JOUR 3301	Photojournalism .....	3
JOUR 4107	Reporting Public Affairs .....	3
JOUR 4957	Topics in Journalism .....	3
<b>Total:</b>	<b>.....</b>	<b>24</b>

**Public Relations Concentration**

MCOM 1030	Intro. to Mass Communications .....	3
PUBR 2700	Introduction to Public Relations .....	3
JOUR 2120	Writing for Print Media I .....	3
PUBR 2770	Writing for Public Relations .....	3
RTVF 2630	Writing for Radio/TV .....	3
JOUR 3150	Copy Editing .....	3
ADVR 3240	Advertising Principles .....	3
RTVF 3602	Video/Film Techniques .....	3
PUBR 3770	Public Relations Publications .....	3
MCOM 4037	Communications Law .....	3
PUBR 4730	Public Relations Practices .....	3
PUBR 4080	Public Relations Internship .....	3
<b>Total:</b>	<b>.....</b>	<b>36</b>

Additional courses required:

SPCH 2300	Public Speaking .....	3
SPCH 3390	Persuasion .....	3
SPCH 4357	Communication in Organizations or Business and Professional Communication .....	3

**Course Requirements for Speech Majors**

**Speech Concentration**

SPCH 2330	Communication Theory .....	3
SPCH 3300	Analysis and Criticism: Qualitative or Communication Research: Quantitative .....	3
SPCH 3330	Communication Research: Quantitative .....	3
SPCH 3310	Intrapersonal Communication .....	3
SPCH 3350	Interpersonal Communication .....	3
SPCH 3380	Dynamics of Group Leadership .....	3
SPCH 4357	Communication in Organizations .....	3
SPCH 4366	Communication Ethics .....	3

Students must select three courses from one of the following groups and two courses from the other two groups .....

**Group I**

CDIS 3000	Comm. Sciences and Disorders .....	3
CDIS 4010	Speech and Hearing Science I .....	4
CDIS 4020	Speech and Hearing Science II .....	4
SPCH 4957	Topics in Communication .....	3

**Group II**

SPCH 2300	Public Speaking .....	3
SPCH 2320	Argumentation and Debate .....	3
SPCH 3390	Persuasion .....	3
SPCH 4317	Rhetoric and Public Address .....	3

**Group III**

CDIS 3200	The Clinical Process .....	3
SPCH 4346	Bus. and Profess. Communication .....	3
SPCH 4380	Speech Internship .....	3
SPCH	Elective approved by advisor .....	3
	(Elective must be at the 3000 level or above)	
<b>Total:</b>	.....	<b>36-38</b>

**Speech Concentration  
for the 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 semester hours must be obtained before 15 hours of coursework in speech have been completed.

**Theatre Concentration**

THEA 2510	Acting I .....	3
THEA 2520	Stagecraft .....	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 2525	Makeup	
THEA 3515	Theatre Movement	

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 3510	Acting II	
THEA 4637	Theatre Management	

Five credit hours chosen from:	.....	5
THE 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
<b>Total:</b>	.....	<b>36</b>

**Theatre Concentration Minor**

THEA 2510	Acting I .....	3
THEA 2520	Stagecraft .....	3
THEA 2530	Dramatic Structure .....	3

Three credit hours chosen from:	.....	3
THEA 3520	Theatre History I	
THEA 3525	Theatre History II	

Six credit hours chosen from:	.....	6
THEA 3520	Scenic Design	
THEA 3335	Lighting Design	
THEA 3500	Voice and Diction	
THEA 3530	Play Direction	

Three credit hours chosen from:	.....	3
THEA 3510	Acting II	
THEA 4527	Advanced Scenographic Design	
THEA 4547	Dramatic Theory and Criticism	
THEA 4637	Theatre Management	
<b>Total:</b>	.....	<b>21</b>

**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.

SPCH 2300	Public Speaking .....	3
SPCH 2320	Argumentation and Debate .....	3
SPCH 3300	Anal. and Crit: Qualitative Research .....	3
SPCH 3350	Interpersonal Communication .....	3
SPCH 3380	Dynamics of Group Leadership .....	3
SPCH 3390	Persuasion .....	3
SPCH 4317	Rhetoric and Public Address .....	3
SPCH 4346	Bus. and Profess. Communication .....	3
SPCH 4419	Teaching Secondary Speech and Theatre .....	3
THEA 2200	Oral Interpretation of Literature .....	3
MCOM1030	Intro. to Mass Communications or	
MCOM3070	Mass Media and Society .....	3
<b>Total:</b>	.....	<b>33</b>

**Speech Concentration Minor**

SPCH 1300	General Speech .....	3
SPCH 2300	Public Speaking .....	3
SPCH 2320	Argumentation and Debate .....	3
SPCH 3350	Interpersonal Communication .....	3
SPCH 4317	Rhetoric and Public Address .....	3
SPCH 4346	Bus. and Profess. Communication .....	3
THEA 2200	Oral Interpretation of Literature .....	3
MCOM1030	Intro. to Mass Communications or	
MCOM3070	Mass Media and Society .....	3

<b>Total hours of Speech</b>	.....	<b>18</b>
Total hours of other comm. courses	.....	6
<b>Total:</b>	.....	<b>24</b>

Tennessee certifies teachers in the subject field of speech communication. This minor program meets the state requirements for certification in the subject field. See additional requirements for certification under "Teacher Education" in this catalog.

**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.

THEA 2500	Creative Drama	3
THEA 2510	Acting I	3
THEA 2520	Stagecraft	3
THEA 2525	Makeup	1
THEA 2530	Dramatic Structure	3
THEA 3330	Scenic Design	3
THEA 3335	Lighting Design	3
THEA 3500	Voice and Diction	3
THEA 3520	Theatre History I	3
THEA 3525	Theatre History II	3
THEA 3530	Play Direction	3
THEA 4418	Teaching Theatre in Grades K-12	3

Two credit hours chosen from: ..... 2

THEA 1800	Theatre Laboratory
THEA 2605	Theatre Practicum
THEA 2800	Theatre Laboratory
THEA 3515	Theatre Movement
THEA 3800	Theatre Laboratory
THEA 4607	Theatre Practicum
THEA 4800	Theatre Laboratory

**Total:** ..... 36

**Suggested Curriculum Guide  
Bachelor of Science Degree,  
Social & Behavioral Science Option  
1995 and later Catalogs**

**Freshman - Fall Semester**

ENGL 1010	Critical Reading/Expository Writing	3
MATH 1530	Probability & Statistics	3
Science	(See Gen. Education Core)	4
Major Course		3
PHED 1XXX	Fitness Activity	1
CSCI 1100	Using Information Technology	3
<b>TOTAL</b>		<b>17</b>

**Freshman - Spring Semester**

ENGL 1020	Critical Thinking/Argumentation	3
Science	(See General Education Core)	4
PHED 2XXX	Lifetime Activity	1
Social Statistics Elective		3
HIST 2010	The United States to 1877	3
Major Course		3
<b>TOTAL</b>		<b>17</b>

**Sophomore - Fall Semester**

ENGL	Literature 2130, 2210, 2430, 2330	3
HIST 2020	The United States since 1877	3
Arts & Artistic Vision	(See General Education Core)	3
Reasoning & Argumentation	(See General Education Core)	3
Major Course		3
<b>TOTAL</b>		<b>15</b>

**Sophomore - Spring Semester**

Institutions & Society	(See General Education Core)	3
Research Design		3
Identity Ethics, & Responsibility	(See General Education Core)	3
Writing Intensive		3
Major Course		3
<b>TOTAL</b>		<b>15</b>

**Junior - Fall Semester**

Institutions & Society	(See General Education Core)	3
Writing Intensive		3
Oral Communication Intensive		3
Information Technology Intensive		3
Major Course		3
<b>TOTAL</b>		<b>15</b>

**Junior - Spring Semester**

Humanities	(See General Education Core)	3
Writing Intensive		3
Oral Communication Intensive		3
Using Information Tech. Intensive		3
Microcomputer Skills Elec.		3
<b>TOTAL</b>		<b>15</b>

**Senior - Fall Semester**

Writing Intensive		3
Minor Course		3
Major Course		3
Free Electives		3-6
<b>TOTAL</b>		<b>12-15</b>

**Senior - Spring Semester**

Minor Course		3
Major Course		3
Free Electives		3-9
<b>TOTAL</b>		<b>8-15</b>

**Total Credit Hours for B.S. (S.S.)** ..... 128

**Suggested Curriculum Guide  
Bachelor of Science Degree,  
1995 and Later ETSU Catalogs**

**Freshman - Fall Semester**

ENGL 1010	Critical Reading/Expository Writing	3
MATH 1810	Analysis For Business	3
Science	(See General Education Core)	4
Major Course		3
PHED 1XXX	Fitness Activity	1
CSCI 1100	Using Information Technology	3
<b>TOTAL</b>		<b>17</b>

**Freshman - Spring Semester**

ENGL 1020	Critical Thinking/Argumentation	3
MATH 1820	Calculus for Business	3
Science	(See General Education Core)	4
PHED 2XXX	Lifetime Activity	1
HIST 2010	The United States to 1877	3
Major Course		3
<b>TOTAL</b>		<b>17</b>

**Sophomore - Fall Semester**

ENGL Literature	2130, 2210, 2430, 2330	3
Science	(See General Education Core)	4
HIST 2020	The United States since 1877	3
Arts & the Artistic Vision	(See General Education Core)	3
Major Course		3
<b>TOTAL</b>		<b>16</b>

**Sophomore - Spring Semester**

Science	(See General Education Core)	4
Institutions & Society	(See General Education Core)	3
Identity, Ethics, & Social Responsibility	(See General Education Core)	3
Writing Intensive		3
Major Course		3
<b>TOTAL</b>		<b>16</b>

**Junior - Fall Semester**

Institutions & Society	(See General Education Core)	3
Writing Intensive		3
Oral Communication Intensive		3
Using Information Intensive		3
Major Course		3
<b>TOTAL</b>		<b>15</b>

**Junior - Spring Semester**

Humanities	(See General Education Core)	3
Writing Intensive		3
Oral Communication Intensive		3
Using Information Intensive		3
Major Course		3
<b>TOTAL</b>		<b>15</b>

**Senior - Fall Semester**

Writing Intensive		3
Minor Courses		3-6
Major Courses		3-6
Free Electives		3-6
<b>TOTAL</b>		<b>12-18</b>

**Senior - Spring Semester**

Minor Courses	.....	3-6
Major Courses	.....	3-6
Free electives	.....	3-6
<b>TOTAL</b>	.....	<b>9-12</b>

Total Credit Hours for B.S. .... 128

**Suggested Curriculum Guide for the Bachelor of Arts Degree 1995 and Later ETSU Catalogs**

**Freshman - Fall Semester**

ENGL 1010	Critical Reading/Expository Writing	.....	3
MATH 1530	Probability & Statistics	.....	3
	Foreign Language (2XXX)	.....	3
	Major Course	.....	3
PHED 1XXX	Fitness Activity	.....	1
CSCI 1100	Using Information Technology	.....	3
<b>TOTAL</b>	.....	.....	<b>16</b>

**Freshman - Spring Semester**

ENGL 1020	Critical Thinking/Argumentation	.....	3
	Science (See General Education Core)	.....	4
PHED 2XXX	Lifetime Activity	.....	1
	Foreign Language (2XXX)	.....	3
HIST 2010	The United States to 1877	.....	3
	Major Course	.....	3
<b>TOTAL</b>	.....	.....	<b>17</b>

**Sophomore - Fall Semester**

ENGL Literature 2130, 2210, 2430, 2330	.....	3	
HIST 2020	The United States since 1877	.....	3
	Arts & the Artistic Vision (See General Education Core)	.....	3
	Science (See General Education Core)	.....	4
	Major Course	.....	3
<b>TOTAL</b>	.....	.....	<b>16</b>

**Sophomore - Spring Semester**

	Institutions & Society (See General Education Core)	.....	3
	Non-United States History	.....	3
	Identity Ethics, & Social Responsibility (See General Education Core)	.....	3
	Writing Intensive	.....	3
	Major Course	.....	3
<b>TOTAL</b>	.....	.....	<b>15</b>

**Junior - Fall Semester**

	Institutions & Society (See General Education Core)	.....	3
	Writing Intensive	.....	3
	Oral Communication Intensive	.....	3
	Using Information Technology Intensive	.....	3
	Major Course	.....	3
<b>TOTAL</b>	.....	.....	<b>15</b>

**Junior - Spring Semester**

	Institutions & Society (See General Education Core)	.....	3
	Humanities (See General Education Core)	.....	3
	Writing Intensive	.....	3
	Oral Communication	.....	3
	Major Course	.....	3
<b>TOTAL</b>	.....	.....	<b>15</b>

**Senior - Fall Semester**

	Writing Intensive	.....	3
	Minor Courses	.....	3-6
	Major Required Courses	.....	3-6
	Free Electives	.....	3-6
<b>TOTAL</b>	.....	.....	<b>12-18</b>

**Senior - Spring Semester**

Minor Courses	.....	
Major Courses	.....	
Free Electives	.....	
<b>TOTAL</b>	.....	<b>16-18</b>

Total Credit Hours for B.A. degree .... 128

**Department of Criminal Justice and Criminology (CJCR)**

**P.O. 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  
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 2000	Research Methods for Criminal Justice and Criminology	3
CJCR 2540	Criminal Law	3
CJCR 3000	Statistics for Criminal Justice and Criminology	3
CJCR 3300	Criminal Justice Ethics	3
CJCR 3310	Criminology	3
CJCR 3444	Microcomputers as a Research Tool (B.S. requirement)	3
<b>TOTAL</b>		<b>18</b>

3. Completion of 21 hours of 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: ..... 39**

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 2.5 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 - Fall Semester**

CJCR 1100	Introduction to Criminal Justice	3
ENGL 1010	Critical Reading & Expository Writing	3
MATH 1530	Probability & Statistics	3
Natural Science		4
HIST 2010	The United States to 1877	3
Physical Education		1
<b>TOTAL</b>		<b>17</b>

**Freshman Spring - Semester**

ENGL 1020	Critical Thinking & Argumentation	3
Institutions & Society Option		3
Natural Science		4
CSCI 1100	Using Information Technology	3
HIST 2020	The United States since 1877	3
Physical Education		1
<b>TOTAL</b>		<b>17</b>

**Sophomore - Fall Semester**

CJCR 2000	Research Methods for CJCR	3
CJCR 2540	Criminal Law	3
Heritage Option		3
Identity, Ethics, & Social Responsibility		3
Institutions & Society		3
Elective		3
<b>TOTAL</b>		<b>18</b>

**Sophomore - Spring Semester**

CJCR 3300	Criminal Justice Ethics	3
CJCR 3310	Criminology	3
CJCR 3000	Statistics for Criminal Justice	3
Arts & Artistic Vision		3
Humanities Elective		3
<b>TOTAL</b>		<b>15</b>

**Junior - Fall Semester**

CJCR 3444	Microcomputers as a Research Tool	3
Electives, Major and Minor courses		9
Free Elective		3
Oral/Written/Technology Intensive		3
<b>TOTAL</b>		<b>18</b>

**Junior - Spring Semester**

Electives, Major and Minor courses	10
Oral/Written/Technology Intensive	7
<b>TOTAL</b>	<b>17</b>

**Senior - Fall Semester**

Electives, Major and Minor courses	15
<b>TOTAL</b>	<b>15</b>

**Senior - Spring Semester**

Electives, Major and Minor courses	15
<b>TOTAL</b>	<b>15</b>

**Minor in Criminal Justice and Criminology**

Students minoring in criminal justice and criminology must complete 18 semester credit hours as follows:

ENGL 1010	Critical Reading & Expository Writing	3
CJCR 1100	Introduction to Criminal Justice	3
CJCR 2540	Criminal Law	3
CJCR 3310	Criminology	3
Electives in Criminal Justice and Criminology		9
<b>TOTAL</b>		<b>18</b>

**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)**

**P.O. Box 70683**                      **Phone: 423/439-4347**

**Web Address: [www.etsu.edu/English](http://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 a person to understand the human condition, as it emerges in cultural contexts, to examine ideas, and to 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:

**Major Requirements**

ENGL 2130, 2210, or 2220	9*
(or Honors Equivalent)	
ENGL 2330, 2430	
ENGL 3000-level courses (3)	9
ENGL 4000-level courses (2)	6
ENGL Electives (4 at 3000/4000 level)	12
<b>Total:</b>	<b>36</b>

\*Three hours may be substituted from ENGL 2330 or 2430 if desired.

- Credit from the 3000 level must include a genre course and either a language course or literary criticism.
- Credit from the 4000 level must include at least 3 hours from ENGL 4700 (Chaucer), 4690 (Milton), or 4200 (Shakespeare).
- Students may elect to complete a 12-hour Writing Emphasis or Language Emphasis in place of 12-hour general elective requirement in English.

**General Education 46-47 Credits**

ENGL 1010	Critical Reading & Expository Writing	3
ENGL 1020	Critical Thinking & Argumentation	3
CSCI 1100		3
Social Responsibility		3
Math		3-4
Heritage (Including HIST 2010 & 2020)		9
Arts & Artistic Vision		3
Institutions & Society		6
Science (Areas of Familiarity)		8
Physical Education		2
Humanities Electives		3

**Intensive Courses** - Students who enter ETSU as freshmen or with less than 60 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, of which two must be in the major (at least two must be at the 3000-4000 level).

**B.A. Requirements**

Single foreign language at or above 2000 level	6
Non-U.S. History	3
Minor	18-26 Credits
Electives (3000-4000 level)	11-22 Credits

**Total Credit Hours Required for Degree** ..... 128

**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: and 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. Marcia Songer, at 423-439-6675 or [songerm@etsu.edu](mailto:songerm@etsu.edu) for further information.

**Teaching majors** - The major who seeks teacher certification must complete at least 36 hours, as specified below. Twenty-seven (27) credit hours, according to the following distribution:

ENGL 2130	American Literature
ENGL 2210	British Literature I
ENGL 2220	British Literature II
ENGL 2430	European Literature or
2330	World Literature
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 4117	Grammar and Usage
ENGL 3130	Advanced Composition or
4057	Writing: Theory and Teaching
ENGL 4077	Adolescent Literature
ENGL 4200	Shakespeare and His Age

Nine (9) hours of electives, to be taken from 3000- or 4000-level courses, including at least one course in American Literature

In addition to the 36-hour major, students seeking certification must complete 3 credit hours of methods, counted as an education requirement, and 3 credit hours of reading, as follows:

ENGL 4417	Teaching English in Secondary Schools
READ 3110	Teaching the Process of Reading, or
READ 4027	Diagnostic and Remedial Procedures in Reading

Note: See both the "General Education" and "Professional Education" requirements for Secondary and K-12 certification listed under the College of Education in this catalog.

**Sample Curriculum**

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 = 128 hours.

**Freshman - Fall Semester**

ENGL 1010	Critical Reading and Expository Writing	3
HIST 2010	The United States to 1877	3
MATH 1530	Probability and Statistics	3
ASTR 1015	Astronomy I	4
ARTA 2010	Art History	3
<b>TOTAL</b>		<b>16</b>

**Freshman - Spring Semester**

ENGL 1020	Critical Thinking and Argumentation	3
HIST 2020	The United States since 1877	3
PHIL 2020	Values and Society	3
ASTR 1025	Astronomy II	4
SOAA 1020	Introduction to Sociology	3
<b>TOTAL</b>		<b>16</b>

**Sophomore - Fall Semester**

ENGL 2130	American Literature	3
PSYC 1310	Introduction to Psychology	3
HIST 1110	World History to 1500	3
CSCI 1100	Using Information Technology	3
PHED 1120	Aquafitness	1
ENGL 2430	European Literature or	
ENGL 2330	World Literature	3
<b>TOTAL</b>		<b>16</b>

**Sophomore - Spring Semester**

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
PHED 2120	Folk Dance	1
FREN 1010	Beginning French	3
PHIL 3062	Philosophy of Feminism	3
<b>TOTAL</b>		<b>16</b>

**Junior - Fall Semester**

ENGL 3010	Poetry	3
ENGL 3300	Literary Criticism	3
HIST 3720	History of Africa	3
FREN 1020	Beginning French II	3
THEA 1030	Introduction to Theatre	3
PHED 2420	Lifeguarding	2
<b>TOTAL</b>		<b>17</b>

**Junior - Spring Semester**

ENGL 3030	Drama	3
ENGL 3500	Women Authors	3
HIST 4230	Renaissance/Reformation	3
FREN 2010	Second Year French	3
GEOG 1120	Earth Science	4
<b>TOTAL</b>		<b>16</b>





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 semester 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 44 credit hours required for Professional Education. Please refer to the Professional Education Requirement section in the Department of Education in this catalog for a list of the required courses.

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 semester 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.

### 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 3310 French Civilization	3
FREN 3510 French Literature before 1700	3
FREN 3610 French Literature after 1700	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

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
<b>Total</b>	<b>21</b>

### SPANISH

Major and Minor Pre-requirements	6 credit hours
SPAN 1010 Beginning Spanish I	3
SPAN 1020 Beginning Spanish II	3

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 3013	Spanish Conversation/Composition I	3
SPAN 3033	Hispanic Readings and Composition	3
SPAN 3113	Spanish Conversation/Composition II	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 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**  
(Pending TBR approval)

Minor Pre-requirements ..... 2 years college Spanish or equivalent

Required Core	9 credits	
SPAN 4127	Applied Spanish: Introduction to Spanish-Speaking Communities	3
SPAN 4137	Applied Spanish: Translation and Community Outreach	3
SPAN 4147	Applied Spanish: Interpretation and Community Outreach	3
Guided Electives	6 credits	
SPAN 3413	Civilization of Latin America	3
SPAN 3613	Survey of Spanish-American Literature	3
SPAN 4117	Hispanic Cinema	3
SPAN 4607	Modernist Movement in Spanish America	3
SPAN 4900	Independent Study	3
Guided Electives	3 credits	
PSCI 3830	Government and Politics of Latin America	3
GEOG 4307	Regional Geography of Latin America	3
HIST 4730	Latin America: Revolution and Nationalism	3
SOAA 4957	Special Topics: People and Culture of Latin America	3
FCNU 4907	International Primary Health Care Practicum (Health Science students only)	3
SOWK 3300	Cultural Diversity in Social Work Practice	3
HDAL 4666	Cultural Influences in Development	3
PUBH 4030	Community Health	3
<b>Total credits</b>	<b>18</b>	

**Department of History  
(HIST)**

**P.O. 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 judgements 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.)

**Major Requirements:**

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
<b>Total:</b>		<b>33</b>

\*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 U.S., European, and World History.

General Education	44-47 Credits	
ENGL 1010	Critical Reading & Expository Writing	3
ENGL 1020	Critical Thinking & Argumentation	3
MATH	See specific B.A., B.S., B.S./s.s. requirements	3-6
CSCI 1100	Using Information Technology	3
Science	Select two courses in the Areas of Familiarity (see specific B.A., B.S., B.S./s.s. requirements)	8
HIST 2010	The United States to 1877	3
HIST 2020	The United States since 1877	3
Plus one of the ENGL courses listed under Heritage		3
Select one course from <b>Arts and the Artistic Vision</b>		3
Select one course from <b>Identity, Ethics and Social Responsibility</b>		3
Select two courses from <b>Institutions and Society</b>		6
Select one unduplicated course from the <b>Humanities Elective</b> section		3

**Intensive Courses** – Students who enter ETSU as freshmen or with less than 60 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 these must be in the major; at least two must be at the 3000-4000 level. Students must meet proficiency-intensive requirements through courses taken at ETSU.

<b>Physical Education</b>	<b>2</b>
Two courses, one being from the fitness activity category and one from the lifetime activities category	

**B.A. Requirements** ..... 9  
 Select MATH 1530, 1820, 1840, or 1910  
 Two courses of a single language at or above the 2000 level  
 One course of Non-U.S. History

**B.S. Requirements** ..... 8  
 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

**B. S. (Social & Behavioral Sciences) Requirements** ..... 12  
 MATH 1530 Prob & Stats - Noncalculus  
 8 credit hours of single laboratory science  
 3 credit hours from each of the following areas:  
 (1) Social Statistics  
 (2) Reasoning and Argumentation  
 (3) Research Design for Social Science (subject to departmental restrictions)  
 (4) Microcomputer Skills

**MINOR** ..... 18-26 Credits  
**Electives** ..... 10-26 Credits

**Total Credit Hours required for Degree** ..... 128 Credits

**Minor** – A minor in history requires completion of a minimum of 21 semester hours of study, including the following:

HIST 1110 & 1120 World Civilization ..... 6  
 HIST 4000-level courses (3)\* ..... 9  
 HIST 3000- or 4000-level courses (2)\* ..... 6  
**TOTAL** ..... 21

\*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 U.S., 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 semester 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 44 credit hours required for Professional Education. 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 History offers graduate programs leading to a master of arts. Further information on graduate programs is contained in the Graduate Catalog.

**Department of Mathematics  
(MATH)**

**P.O. Box 70663**

**Phone: 423/439-4349**

**Web Address: [www.etsu.edu/math/math.htm](http://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 choosing to complement another choice for major.

**Financial Support**

Scholarships and loans are available for the conscientious mathematics majors who are seeking support for their education. The Edward Stanley Scholarship, Jeffrey Lynn Hightower Memorial Scholarship, Charles F. Wilkey Scholarship, Wilson-Hartsell Scholarship, Depew Scholarship, Faber-Neal Scholarship, and Roesel Awards are scholarships designated for mathematics and science majors. To encourage students to teach mathematics in the public schools of Tennessee, the Teacher Loan/Scholarship program has been instituted to cover tuition and fees at East Tennessee State University. The interested student should consult the Financial Aid section of this catalog.

**Diagnostic/Placement Program**

The AAPP program explained elsewhere in this catalog is designed to place a student in a mathematics course ensuring the best possible chance for success. Moreover the Department of Mathematics strongly recommends that each student meet with an advisor to see what mathematics course 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 three tracks: mathematical sciences, mathematical statistics, or mathematics education. Curriculum requirements for each of the three tracks are given below. Students planning to teach mathematics at the secondary level must 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. All other majors, such as those intending to pursue a graduate degree in mathematics or those desiring a job in research or industry utilizing areas of mathematics other than statistics, should choose the mathematical sciences track. The latter track offers the most flexibility. Due to the number of hours required for the major, 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, 2800, or upper level (junior/senior) courses. The interested student should be advised by the undergraduate mathematics advisor.

**Co-op Program** – 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 three mathematics tracks, also listed below.

**Mathematics Core Requirements:**

MATH 1090 Seminar I .....	2
MATH 1910 Calculus I .....	4
MATH 1920 Calculus II .....	4
MATH 2050 Probability & Statistics - Calculus based .....	3
MATH 2110 Calculus III .....	4
MATH 2010 Linear Algebra .....	3
MATH 2800 Mathematical Reasoning .....	3
MATH 3090 Seminar II .....	2
MATH 4127 Introduction to Modern Algebra .....	3
MATH 4217 Analysis I .....	3
MATH 4257 Numerical Analysis OR	
MATH 4267 Numerical Linear Algebra .....	3
CSCI 1250 Introduction to Computer Science .....	4
CSCI 1260 Structured Programming .....	4
PHYS 2110 Technical Physics I - Calculus based .....	5
PHYS 2120 Technical Physics II - Calculus based .....	5
SPCH 1300 General Speech .....	3
<b>Total Hours:</b> .....	<b>55</b>
<b>Total Hours in Mathematics:</b> .....	<b>34</b>

**Mathematical Sciences Track:**

MATH 2120 Differential Equations .....	3
MATH Elective (3000/4000 level) or	
CSCI 2210 Data Structures .....	3
MATH 4340 Combinatorics and Graph Theory I .....	3

MATH 4350 Combinatorics and Graph Theory II .....	3
MATH Elective (3000/4000 level) .....	3
<b>Total Hours in addition to core:</b> .....	<b>15</b>

**Mathematical Statistics Track:**

MATH 4047 Math Statistics I .....	3
MATH 4057 Math Statistics II .....	3
MATH 4287 Applications of Statistics .....	3
MATH 4307 Sampling and Surveying .....	3
MATH Elective (3000/4000 level) .....	3
<b>Total Hours in addition to core:</b> .....	<b>15</b>

**Mathematics Education Track:**

MATH 2120 Differential Equations .....	3
MATH 3040 History of Mathematics .....	3
MATH 3120 Number Theory .....	3
MATH 4157 Modern Geometry .....	3
MATH 4417 Teaching Secondary Math .....	3
<b>Total Hours in addition to core:</b> .....	<b>15</b>

**Suggested Course Sequence for Major in Mathematical Sciences Track**

**Mathematics Core Requirements**

**Freshman - Fall Semester**

ENGL 1110 Critical Reading & Expository Writing .....	3
MATH 1910 Calculus I .....	4
MATH 1090 Seminar I2 .....	1
CSCI 1100 Using Information Technology.....	3
Science .....	4
Physical Education .....	1
<b>TOTAL</b> .....	<b>17</b>

**Freshman - Spring Semester**

ENGL 1120 Critical Reading & Argumentation .....	3
MATH 1920 Calculus II .....	4
MATH 2010 Linear Algebra .....	3
Science .....	4
Physical Education .....	1
<b>TOTAL</b> .....	<b>15</b>

**Sophomore - Fall Semester**

MATH 2800 Mathematical Reasoning .....	3
MATH 2110 Calculus III .....	4
CSCI 1250 Introduction to Computer Science .....	4
Institutions and Society .....	3
HIST 2010 The United States to 1877 .....	3
<b>TOTAL</b> .....	<b>17</b>

**Sophomore - Spring Semester**

MATH 2050 Fundamentals of Probability & Statistics .....	3
CSCI 1260 Structured Programming .....	4
Arts & Artistic Vision Option .....	3
MATH 2120 Differential Equations .....	3
HIST 2020 The United States since 1877 .....	3
<b>TOTAL</b> .....	<b>16</b>

**Junior - Fall Semester**

MATH 4127 Modern Algebra I .....	3
PHYS 2610 Technical Physics I .....	5
SPCH 1300 General Speech .....	3
Heritage Option .....	3
Institutions and Society .....	3
<b>TOTAL</b> .....	<b>17</b>

**Junior - Spring Semester**

MATH 3090 Seminar II .....	2
PHYS 2620 Technical Physics II .....	5
Math core, Major, and non-math elective courses .....	7
Identity, Ethics, and Social Responsibility .....	3
<b>TOTAL</b> .....	<b>17</b>

**Senior - Fall Semester**

MATH 4217 Analysis I3 .....	3
MATH 4257 Numerical Analysis or	
MATH 4267 Numerical Linear Algebra .....	3
MATH 4340 Combinatorics & Graph Theory I .....	3
Math core, Major, and non-math elective courses .....	6 or 9
<b>TOTAL</b> .....	<b>15</b>

**Senior - Spring Semester**

MATH 4350	Combinatorics & Graph Theory II	3
MATH 4267	Numerical Linear Algebra or	
MATH 4257	Numerical Analysis	3
	Humanities Option	3
	Math core, Major, and non-math elective courses	3 or 6
<b>TOTAL</b>		<b>15</b>

A total of 112 hours is required for the mathematical sciences track program. Also 128 hours are required for the B.S. degree.

**Suggested Course Sequence for Major in Mathematics in Statistics Track**

**Mathematics Core Requirements**

**Freshman - Fall Semester**

ENGL 1110	Critical Reading & Expository Writing	3
MATH 1910	Calculus I	4
MATH 1090	Seminar I2	
CSCI 1100	Using Information Technology	3
	Science	4
	Physical Education	1
<b>TOTAL</b>		<b>17</b>

**Freshman - Spring Semester**

ENGL 1120	Critical Reading & Argumentation	3
MATH 1920	Calculus II	4
MATH 2010	Linear Algebra	3
	Science	4
	Physical Education	1
<b>TOTAL</b>		<b>15</b>

**Sophomore - Fall Semester**

MATH 2800	Mathematical Reasoning	3
MATH 2110	Calculus III	4
CSCI 1250	Introduction to Computer Science	4
	Institutions and Society	3
HIST 2010	The United States to 1877	3
<b>TOTAL</b>		<b>17</b>

**Sophomore - Spring Semester**

MATH 2050	Fundamentals of Probability & Statistics	3
CSCI 1260	Structured Programming	4
	Arts & Artistic Vision Option	3
	Humanities Option	3
HIST 2020	The United States since 1877	3
<b>TOTAL</b>		<b>16</b>

**Junior - Fall Semester**

MATH 4127	Modern Algebra I	3
PHYS 2610	Technical Physics I	5
SPCH 1300	General Speech	3
MATH 4307	Sampling and Survey Techniques	3
	Institutions and Society	3
<b>TOTAL</b>		<b>17</b>

**Junior - Spring Semester**

MATH 3090	Seminar II	2
PHYS 2620	Technical Physics II	5
MATH 4287	Applications of Statistics	3
	Heritage Option	3
	Identity, Ethics and Social Responsibility	3
<b>TOTAL</b>		<b>16</b>

**Senior - Fall Semester**

MATH 4217	Analysis I	3
MATH 4257	Numerical Analysis or	
MATH 4267	Numerical Linear Algebra	3
MATH 4047	Mathematical Statistics I	3
	Math core, Major, and non-math elective courses	6 or 9
<b>TOTAL</b>		<b>15</b>

**Senior - Spring Semester**

MATH 4057	Mathematical Statistics II	3
MATH 4267	Numerical Linear Algebra or	
MATH 4257	Numerical Analysis	3
	Math Elective (3000/4000 level)	3
	Math core, Major, and non-math elective courses	6 or 9
<b>TOTAL</b>		<b>15</b>

A total of 112 hours is required for the statistics track program. Also 128 hours are required for the B.S. degree.

**Suggested Course Sequence for Major in Mathematics in Education Track**

**Mathematics Core Requirements**

**Freshman - Fall Semester**

ENGL 1010	Critical Reading & Expository Writing	3
MATH 1910	Calculus I	4
MATH 1090	Seminar I	2
CSCI 1100	Using Informational Technology	3
	Science	4
	Physical Education	1
<b>TOTAL</b>		<b>17</b>

**Freshman - Spring Semester**

ENGL 1020	Critical Reading & Argumentation	3
MATH 1920	Calculus II	4
MATH 2010	Linear Algebra	3
	Science	4
	General education requirement	3
	Physical Education	1
<b>TOTAL</b>		<b>18</b>

**Sophomore - Fall Semester**

MATH 2800	Mathematical Reasoning	3
MATH 2110	Calculus III	4
CSCI 1250	Introduction to Computer Science	4
EDFN 2100	Orientation to Education	1
HDAL 2300	Adolescent Psychology	3
	General education requirement	3
<b>TOTAL</b>		<b>18</b>

**Sophomore - Spring Semester**

MATH 2050	Fundamentals of Probability & Statistics	3
MATH 2120	Differential Equations	3
CSCI 1260	Structured Programming	4
EDFN 2300	Foundations for Teaching	3
HDAL 3310	Educational Psychology	3
<b>TOTAL</b>		<b>16</b>

**Junior - Fall Semester**

MATH 4127	Modern Algebra I	3
MATH 3040	History of Mathematics	3
PHYS 2610	Technical Physics	5
SPCH 1300	General Speech	3
EDFN 3301	Issues in Education	3
<b>TOTAL</b>		<b>17</b>

**Junior - Spring Semester**

MATH 3090	Seminar II	2
MATH 3120	Number Theory	3
MATH 4157	Modern Geometry	3
PHYS 2620	Technical Physics II	5
CUAI 4417	Secondary School Curriculum & Methods	3
CUAI 4427	Field Experience	1
<b>TOTAL</b>		<b>17</b>

**Senior - Fall Semester**

MATH 4217	Analysis I3	
MATH 4257	Numerical Analysis or	
MATH 4417	Teaching Secondary Mathematics	3
READ 4437	Reading in Middle/Secondary Schools	3
SPED 2300	Exceptional Learners	3
MEDA 3570	Educational Technology	3
<b>TOTAL</b>		<b>15</b>

**Senior - Spring Semester**

EDFN 4581	Seminar in Education	3
CUAI 4580	Student Teaching	12
<b>TOTAL</b>		<b>15</b>

NOTE: A total of 18 hours in general education must be taken in summer school in order to complete the requirements in four years.

A Minor is not required.

A total of 153 hours is required for the education track program.

**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, and
  - (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)

**P.O. Box 70661**

**Phone 423/439-4270**

**Web Address: [www.etsu.edu/music](http://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 and guitar 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](http://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, and Phi Mu Alpha Sinfonia 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. 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

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](http://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 majors must register for a minimum of seven semesters of applied music (private instruction) in their major area of performance; 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 \$100 per credit hour is assessed.

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. Student 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, available at <http://www.etsu.edu/music>.

### Performance Requirements

All music majors must perform a solo work in public each semester. Freshman music majors are expected to perform once during the year. "In public" includes studio class or recital, department recital, half or full recital, or other public events as approved by the applied instructor.

All music majors, regardless of concentration, must perform a 30-minute half recital. Music performance majors must also perform an hour-long full recital. A student must be admitted to Level III prior to presenting a half or full recital.

In addition to the performance component of the half recital, students must prepare a written document demonstrating their understanding of theoretical and historical constructs related to the music being performed, as well as program notes. Details about this document are found in the Student Handbook section of the department Web page.

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

**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.

**Ensembles**

Performing experience in ensembles is a vital part of the training of all musicians. Thus, all music majors are required to participate in an ensemble every semester of full-time enrollment. Wind and percussion majors in the music education concentration must be in band (wind ensemble, concert band, or marching band) each semester, including at least three semesters of marching band. Performance majors may substitute orchestra or wind ensemble for marching band if they hold a regular, permanent position with the orchestra or wind ensemble; string majors must play in the symphony every semester. Voice and keyboard majors participate in choir. Keyboard majors also enroll in Accompanying for ensemble credit.

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.

Music education majors should consult an academic advisor in the College of Education for specific certification requirements.

**BACHELOR OF MUSIC CURRICULA**

Music Core:	
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	Intro. to Conducting ..... 2
MUSC 4600	Orchestration & Arranging ..... 2
Elective in Music	..... 2
Must enroll in Group Piano or Applied Piano until piano proficiency examination is passed.	
<b>Total:</b>	<b>..... 30</b>

**MUSIC EDUCATION CONCENTRATION**

**Instrumental Certification**

General Education Core	
(see General Education Section of this catalog) ..... 43*	
Music Core	..... 30
Professional Education (see below)	..... 37
Specialized Music	..... 36
<b>Total for concentration</b>	<b>..... 146</b>

\*Two semesters of Marching Band fulfill the PE requirements.

**Specialized Music**

MUSC 2600	String Methods ..... 2
MUSC 2630	Woodwind Methods I ..... 2
MUSC 2631	Woodwind Methods II ..... 1
MUSC 2660	Brass Methods I ..... 2
MUSC 2661	Brass Methods II ..... 1
MUSC 2690	Percussion Methods ..... 2
MUSC 3590	Instrumental Conducting ..... 2
MUSC 4570	Marching Band Methods ..... 3
MUSC 4580	Instrumental Music in Schools ..... 3
	Applied Music ..... 7
	Ensemble ..... 11

**Vocal Certification**

General Education Core	
(see General Education Section of this catalog) ..... 45	
Music Core	..... 30
Professional Education (see below)	..... 37
Specialized Music	..... 34
<b>Total for concentration</b>	<b>..... 146</b>

**Specialized Music**

MUSC 2620	Instrumental Survey ..... 2
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 ..... 2
MUSC 4730	Choral Literature ..... 3
	Applied Voice ..... 10
	Ensemble ..... 7

**Vocal/Keyboard Certification**

General Education Core	
(see General Education Section of this catalog) ..... 45	
Music Core	..... 30
Professional Education (see below)	..... 37
Specialized Music	..... 38
<b>Total for Concentration</b>	<b>..... 150</b>

**Specialized Music**

MUSC 1040	Voice Class ..... 1
MUSC 2620	Instrumental Survey ..... 2
MUSC 3580	Choral Conducting ..... 2
MUSC 4510	Music in Elementary School ..... 3
MUSC 4520	Music in Secondary School ..... 3
MUSC 4730	Choral Literature ..... 3
MUSC 4740	Keyboard Literature & Pedagogy ..... 3
	Applied Music ..... 14
	Ensemble ..... 7

**Professional Education**

EDFN 2100	Orientation to the Profession of Ed.	1
EDFN 2300	Foundations of Teaching	3
EDFN 3301	Issues in Education	3
HDAL 2330	Adolescent Psychology	3
HDAL 3310	Educational Psychology	3
SPED 3320	Exceptional Learners in School & Communities	3
MEDA 3570	Educational Technology	3
READ 4437	Reading in Middle & Secondary School.	3
CUAI 4580	Student Teaching	12
CUAI 4581	Seminar in Education	3

**PERFORMANCE CONCENTRATION**

General Education Core (see General Education section of this catalog)	45*
Music Core	30
Specialized Courses	45-51
<b>Total for Concentration</b>	<b>120-126</b>

**Instrumental Specialty**

MUSC 3420	Modal Counterpoint OR	
MUSC 3430	Tonal Counterpoint	2
MUSC 4470	Composition OR	
MUSC 4790	Music in America	2
MUSC 4750, 4760, or 4780	Literature & Pedagogy in appropriate applied area	3
	Applied Music	16
	Ensemble	min. 8
	Music electives	2-6
	Free electives	12

**Voice Specialty**

MUSC 2710	Diction I	1
MUSC 2720	Diction II	1
MUSC 3420	Modal Counterpoint OR	
MUSC 3430	Tonal Counterpoint	2
MUSC 4470	Composition OR	
MUSC 4790	Music in America	2
MUSC 4601	Vocal Pedagogy	2
	Applied Voice	16
	Ensemble	8
	Music electives	3
	Free electives	12

**Keyboard Specialty**

MUSC 3420	Modal Counterpoint OR	
MUSC 3430	Tonal Counterpoint	2
MUSC 4470	Composition OR	
MUSC 4790	Music in America	2
MUSC 4740	Keyboard Literature	3
	Applied Keyboard	16
	Ensemble	8
	Music electives	8
	Free electives	12

**Minor in Music**

Does not meet teacher certification requirements.

MUSC 1410	Theory I	2
MUSC 1411	Aural Skills I	1
MUSC 1420	Theory II	2
MUSC 1421	Aural Skills II	1
MUSC 2540	Music History I AND	
MUSC 2550	Music History II OR	
MUSC 3540	Music History III AND	
MUSC 3550	Music History IV	6
	Applied Music (minimum)	6
	Ensemble	4
	Electives*	6
<b>Total:</b>		<b>28</b>

\*Electives may be any music courses except ensembles.

**SUGGESTED COURSE SEQUENCE FOR THE  
BACHELOR OF MUSIC,  
PERFORMANCE CONCENTRATION**

**Freshman - Fall Semester**

CSCI 1100	Using Information Technology	3
ENGL 1110	Critical Reading & Expository Writing	3
MUSC 1010	Group Piano I	1
MUSC 12 --	Major Ensemble	1-2
MUSC 1410	Theory I	2
MUSC 1411	Aural Skills I	1
MUSC 18 --	Applied Music	2
MATH 1 --	(See General Education Requirements)	3
PEXS 1 --	(if not in marching band)	1
<b>TOTAL</b>		<b>17-18</b>

**Freshman - Spring Semester**

ENGL 1120	Critical Thinking & Argumentation	3
Arts & Artistic	Vision course	3
MUSC 1020	Group Piano II	1
MUSC 12 --	Major Ensemble	1-2
MUSC 1420	Theory II	2
MUSC 18 --	Applied Music	2
MUSC 1421	Aural Skills II	1
Science course		4
<b>TOTAL</b>		<b>17-18</b>

**Sophomore - Fall Semester**

Foreign Language elective	3	
MUSC 12 --	Major Ensemble	1-2
MUSC 18 --	Applied Music	2
MUSC 2010	Group Piano III	1
MUSC 2410	Theory III	2
MUSC 2411	Aural Skills III	1
MUSC 2540	Music History I	3
MUSC 2710	Diction I (vocal only)	1
PEXS 2 --	(if not in marching band)	1
<b>TOTAL</b>		<b>15-17</b>

**Sophomore - Spring Semester**

Foreign Language elective	3	
HIST 2010	The United States to 1877	3
MUSC 12 --	Major Ensemble	1-2
MUSC 29 --	Applied Music	2
MUSC 2020	Group Piano IV	1
MUSC 2420	Theory IV 2	
MUSC 2421	Aural Skills IV	1
MUSC 2550	Music History II	3
MUSC 2720	Diction II (vocal only)	1
<b>TOTAL</b>		<b>17-18</b>

**Junior - Fall Semester**

Foreign Language elective	3	
HIST 2020	The United States since 1877	3
MUSC 32 --	Major Ensemble	1-2
MUSC 29 --	Applied Music	2
MUSC 3540	Music History III	3
MUSC 3570	Introduction to Conducting	2
MUSC 3430	Tonal Counterpoint	2
<b>TOTAL</b>		<b>16-17</b>

**Junior - Spring Semester**

Foreign Language elective	3	
ENGL 2 --	Literature course	3
Institutions & Society		3
MUSC 32 --	Major Ensemble	1-2
MUSC 29 --	or MUSC 39 -- (Applied Music half recital)	2
MUSC 3550	Music History IV	3
MUSC 4600	Orchestration & Arranging	2
<b>TOTAL</b>		<b>17-18</b>

**Senior - Fall Semester**

Humanities elective	3	
Institutions & Society	3	
MUSC 32 --	Major Ensemble	1-2
MUSC 39 --	Applied Music	2
MUSC 4470	Composition	2
Music Electives		4-6
<b>TOTAL</b>		<b>15-17</b>

**Senior - Spring Semester**

Identity, Ethics & Social Responsibility	3	
MUSC 32 --	Major Ensemble	1-2
MUSC 39 --	Applied Music (Full recital)	2
MUSC 47 --	Literature & Pedagogy Or	
MUSC 4601	Vocal Pedagogy	2-3
Music Elective		2-3
Science course		4
<b>TOTAL</b>		<b>14-17</b>



**SUGGESTED COURSE SEQUENCE FOR THE  
BACHELOR OF MUSIC,  
INSTRUMENTAL MUSIC EDUCATION CONCENTRATION**

**Freshman - Fall Semester**

CSCI 1100	Using Information Technology.....	3
ENGL 1110	Critical Reading & Expository Writing .....	3
MUSC 1010	Group Piano I .....	1
MUSC 12 --	Major Ensemble .....	1-2
MUSC 1410	Music Theory I .....	2
MUSC 1411	Aural Skills I .....	1
MUSC 18 --	Applied Music .....	1-2
MATH 1 --	(See General Education Requirements) .....	3
<b>TOTAL</b>		<b>15-17</b>

**Freshman - Spring Semester**

ENGL 1120	Critical Thinking & Argumentation.....	3
HIST 2010	The United States to 1877 .....	3
MUSC 1020	Group Piano II .....	1
MUSC 12 --	Major Ensemble.....	1
MUSC 1420	Theory II .....	2
MUSC 1421	Aural Skills II .....	1
MUSC 18 --	Applied Music .....	1-2
Science Course	.....	4
<b>TOTAL</b>		<b>16-17</b>

**Sophomore - Fall Semester**

ENGL 2 --	Literature Course .....	3
MUSC 12 --	Major Ensemble .....	1-2
MUSC 18 --	Applied Music .....	1-2
MUSC 2010	Group Piano III .....	1
MUSC 2410	Theory III .....	2
MUSC 2411	Aural Skills III .....	1
MUSC 2540	Music History I .....	3
Science Course	.....	4
<b>TOTAL</b>		<b>16-18</b>

**Sophomore - Spring Semester**

EDFN 2100	O rientation to Profession of Education .....	1
HIST 2020	The United States since 1877 .....	3
MUSC 12 --	Major Ensemble .....	1
MUSC 29 --	Applied Music .....	1-2
MUSC 2020	Group Piano IV .....	1
MUSC 2420	Theory IV .....	2
MUSC 2421	Aural Skills IV .....	1
MUSC 2550	Music History II .....	3
MUSC 2690	Percussion Methods or .....	
MUSC 2630 -	2631 Woodwind Methods .....	2-3
PHIL	course .....	3
<b>TOTAL</b>		<b>18-20</b>

**Junior - Fall Semester**

EDFN 2300	Foundations for Teaching .....	3
HDAL 2310	Developmental Psychology .....	3
MUSC 29 --	Applied Music .....	2
MUSC 32 --	Major Ensemble .....	1-2
MUSC 3540	Music History III .....	3
MUSC 3570	Introduction to Conducting .....	2
MUSC 2600	String Methods or .....	
MUSC 2660 -	2661Brass Methods .....	2-3
<b>TOTAL</b>		<b>16-18</b>

**Junior - Spring Semester**

Arts & Artistic Vision	.....	3
Institutions & Society	.....	3
MUSC 2690	Percussion Methods or .....	
MUSC 2630 -	31 Woodwinds .....	2-3
MUSC 29 --	or MUSC 39 -- (Applied Music) .....	1-2
MUSC 32 --	Major Ensemble .....	1
MUSC 3550	Music History IV .....	3
MUSC 3590	Instrumental Conducting .....	2
MUSC 4600	Orchestration & Arranging .....	2
<b>TOTAL</b>		<b>17-19</b>

**Senior - Fall Semester**

HDAL 3310	Educational Psychology.....	3
Humanities Elective	.....	3
Institutions & Society	.....	3
MUSC 2600	String Methods or .....	
MUSC 2660 -	2661Brass Methods .....	2-3
MUSC 32 --	Major Ensemble .....	1-2
MUSC 39 --	Applied Music .....	2
MUSC 4570	Marching Band Methods .....	3
<b>TOTAL</b>		<b>17-19</b>

**Senior - Spring Semester**

EDFN 3301	Issues in Education .....	3
MEDA 3570	Educational Technology .....	3
MUSC 32 --	Major Ensemble .....	1-2
MUSC 39 --	Applied Music (Half recital) .....	2
MUSC 4580	Instrumental Music in Schools .....	3
READ 4437	Reading in the Middle/Secondary School .....	3
SPED 2300	Exceptional Learners .....	3
<b>TOTAL</b>		<b>14-17</b>

**5<sup>th</sup> Year Senior - Fall Semester**

CUAI 4580	Student Teaching .....	12
CUAI 4581	Seminar in Education .....	3
<b>TOTAL</b>		<b>15</b>

**SUGGESTED COURSE SEQUENCE FOR THE  
BACHELOR OF MUSIC,  
VOCAL OR VOCAL/KEYBOARD MUSIC EDUCATION  
CONCENTRATION**

**Freshman - Fall Semester**

CSCI 1100	Using Information Technology.....	3
ENGL 1110	Critical Reading & Expository Writing .....	3
HIST 2010	The United States to 1877 .....	3
MUSC 1010	Group Piano I (vocal only) .....	1
MUSC 1040	Class Voice (piano only) .....	1
MUSC 12 --	Major Ensemble .....	1-2
MUSC 1410	Aural Skills I .....	1
MUSC 18 --	Applied Music .....	1-2
MATH 1 --	(See General Education Requirements) .....	3
<b>TOTAL</b>		<b>17-19</b>

**Freshman - Spring Semester**

ENGL 1120	Critical Thinking & Argumentation .....	3
HIST 2020	The United States since 1877 .....	3
MUSC 1020	Group Piano II (Voice only) .....	1
MUSC 12 --	Major Ensemble .....	1
MUSC 1420	Theory II .....	2
MUSC 1421	Aural Skills II .....	1
MUSC 18 --	Applied Music .....	1-2
Science Course	.....	4
<b>TOTAL</b>		<b>15-17</b>

**Sophomore - Fall Semester**

ENGL 2 --	Literature Course .....	3
MUSC 12 --	Major Ensemble .....	1-2
MUSC 18 --	Applied Music .....	1-2
MUSC 2010	Group Piano III(Voice only) .....	1
MUSC 2410	Theory III .....	2
MUSC 2411	Aural Skills III .....	1
MUSC 2710	Diction I .....	1
MUSC 2540	Music History I .....	3
PHIL	course (piano only) .....	3
Science Course	.....	4
<b>TOTAL</b>		<b>16-19</b>

**Sophomore - Spring Semester**

EDFN 2100	Orientation to Profession of Education .....	1
MUSC 12 --	Major Ensemble .....	1
MUSC 29 --	Applied Music .....	1-2
MUSC 2020	Group Piano IV (Voice only) .....	1
MUSC 2420	Theory IV .....	2
MUSC 2421	Aural Skills IV .....	1
MUSC 2550	Music History II .....	
MUSC 2620	Instrumental Survey .....	2
MUSC 2720	Diction II .....	1
Humanities Elective	.....	3
<b>TOTAL</b>		<b>16-17</b>

**Junior - Fall Semester**

EDFN 2300	Foundations for Teaching .....	3
HDAL 2310	Developmental Psychology.....	3
MUSC 29 --	Applied Music .....	2
MUSC 32 --	Major Ensemble .....	1-2
MUSC 3540	Music History III .....	3
MUSC 3570	Introduction to Conducting .....	2
MUSC 4740	Keyboard Literature & Pedagogy .....	3
	(Piano only)	
PHIL	course (voice only) .....	3
<b>TOTAL</b>		<b>17-18</b>

**Junior - Spring Semester**

Arts & Artistic Vision course	.....	3
MUSC 29 --	or MUSC 39 - (Applied Music) .....	1-2
MUSC 32 --	Major Ensemble .....	1
MUSC 3550	Music History IV .....	3
MUSC 3580	Choral Conducting .....	2
MUSC 4600	Orchestration & Arranging .....	2
MUSC 4601	Vocal Pedagogy .....	2
MUSC 4730	Choral Literature .....	3
<b>TOTAL</b>		<b>17-18</b>

**Senior - Fall Semester**

HDAL 3310	Educational Psychology.....	3
Institutions & Society	.....	3
MUSC 32 --	Major Ensemble .....	1-2
MUSC 39 --	Applied Music .....	2
MUSC 4510	Music in Elementary Schools .....	3
SPED 2300	Exceptional Learners .....	3
<b>TOTAL</b>		<b>15-16</b>

**Senior - Spring Semester**

EDFN 3301	Issues in Education .....	3
Institutions & Society .....	3	
MEDA 3570	Educ ational Technology .....	3
MUSC 32 --	Major Ensemble .....	1-2
MUSC 39 --	Applied Music (Half recital) .....	2
MUSC 4520	Music in Secondary Schools .....	3
READ 4437	Reading in the Middle/Secondary School .....	3
<b>TOTAL</b>	.....	<b>18-19</b>

**5<sup>th</sup> Year Senior - Fall Semester**

CUAI 4580	Student Teaching .....	12
CUAI 4581	Seminar in Education .....	3
<b>TOTAL</b>	.....	<b>15</b>

**Department of Philosophy and Humanities  
(PHIL) (HUMT)**

**P.O. 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*.

**COURSE REQUIREMENTS FOR PHILOSOPHY MAJOR**

A minimum of 30 hours is required, including:

PHIL 3010	History of Ancient Philosophy .....	3
PHIL 3030	History of Modern Philosophy .....	3
PHIL 4017	Ethical Theory .....	3
PHIL 4027	Contemporary Philosophy .....	4
Choice of:	.....	3
PHIL 2030	Practical Reasoning	
PHIL 3050	Symbolic Logic	
	Plus 14 other hours .....	14
<b>TOTAL</b>	.....	<b>30</b>

Religious studies courses do not count toward the major in philosophy except for PHIL 3230, 4047, and PHIL 4220.

**PHILOSOPHY MAJOR  
WITH EMPHASIS IN RELIGIOUS STUDIES**

A minimum of 30 hours is required, 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
	Plus 12 other hours .....	12
<b>TOTAL</b>	.....	<b>30</b>

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

**PHILOSOPHY MINOR**

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, 4047, and 4220. Students should plan their minor in consultation with an advisor from the Department of Philosophy and Humanities.

**RELIGIOUS STUDIES MINOR**

A minimum of 21 hours is required, including:

PHIL 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 3280	Mythology .....	3
HIST 3910	History of Christianity .....	3
SOAA 3800	Religion, Society, and Culture .....	3
HIST 3920	History of Islam .....	3

It is possible to major in philosophy and minor in religious studies.

**HUMANITIES MINOR**

Humanities 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 I .....	3
HUMT 2320	Intro to the Study of Humanities 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 advisor, including courses in the following disciplines:

- History
- English (literature courses)
- Art History
- Introduction to Music or Music History
- Philosophy and Humanities

No courses counting toward the student's major field or Service-Learning or General Education Core courses may be counted toward satisfying the humanities minor.

**Department of Physics and Astronomy  
(PHYS)(ASTR)**

**P.O. 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 semester hours of study in physics. These shall include the following courses.

**Course Requirements:**

PHYS 2110-20Tech. Physics-Calc. based .....	10
PHYS 3010 Mechanics .....	4
PHYS 3710 Electricity and Magnetism.....	4

At least one of the advanced courses:

PHYS 4117, 4617, 4717 .....	4
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Physics electives chosen from:

PHYS 3110, 3210, 3310, 3510, 3610, 4117, 4617, 4717, 4850, 4860, and 4900 .....	12
<b>Total (Minimum) .....</b>	<b>34</b>

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.

The Department of Physics and Astronomy offers a major in physics with the B.S. degree. The physics major must satisfy the General Education Core Requirements (page 50), and College of Arts and Sciences B.S. requirements on page 89.

**Minor** – A minor in physics at the bachelor's level requires a minimum of 20 semester hours of study in physics, distributed as follows:

**Course Requirements:**

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
<b>Total (Minimum) .....</b>	<b>20</b>

**Transfer Students** – Transfer students majoring in physics should contact the chair of the department for advising as soon as possible. This will ensure that the student's previous work will be coordinated efficiently with ETSU requirements.

**Teacher Education** – Students interested in pursuing a teacher education program for certification as a physics teacher in grades 7-12 are asked to see the department chair in the Department of Physics and Astronomy AND the professional advisor in the Office of Student Services, 321 Warf-Pickel, College of Education.

**Pre-Teacher Education** – Declaration of Intent – All ETSU students desiring to complete a teacher education or other public school licensure program (for initial licensure, add-on endorsement, or advanced study in education) must file a Declaration of Intent in the Office of Student Services, 321 Warf-Pickel Hall. The Declaration of Intent should be filed before 30 semester 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 44 credit hours required for Professional Education. 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** – Students interested in graduate studies in physics may elect to participate in the mathematical sciences program. Further information is contained in the Graduate Catalog.

**Department of Political Science (PSCI)**

**P.O. 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:

PSCI 1110 Political Life .....	3 credits
PSCI 1120 Intro. to American Government .....	3 credits

EITHER		
PSCI 2210	Intro. to Comparative Politics	
OR		
PSCI 2220	Intro. to World Politics .....	3 credits
EITHER		
CJCR 3444	Microcomputers as a Research Tool	
OR		
PSYC 3444	Computer Methods in Psychology	
OR		
SOAA 3444	Microcomputers as a Research Tool .....	3 credits

One course at or above the 3000 level in each of the 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>Total</b> .....	<b>36 credits</b>
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**Minor** – A minor in political science consists of 24 semester credit hours:

PSCI 1110	Political Life .....	3 credits
PSCI 1120	Intro. to American Government .....	3 credits
EITHER		
PSCI 2210	Intro. to Comparative Politics	
OR		
PSCI 2220	Intro. to World Politics .....	3 credits

One course at or above the 3000 level in any two of five sub-fields .....

	6 credits
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Three courses to be selected freely from the Department's offerings .....

<b>Total</b> .....	<b>24 credits</b>
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**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 semester hours)	
PSCI 3200	Law and Judicial Process .....	3
PSCI 3230	American Constitutional Law .....	3
CJCR 2540	Criminal Law .....	3
MGMT 3310*	Legal Environment of Business .....	3
or		
ENVH 4000	Public Health Law .....	3
Guided electives .....	(9 semester 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.

**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 44 credit hours required for Professional Education. Please see the Professional Education Requirement section in this catalog.

<b>Department of Psychology (PSYC)</b>	
<b>P.O. Box 70649</b>	<b>Phone: 423/439-4424</b>

The objectives of the various programs of the Department of Psychology are to acquaint students with the subject matter and profession of psychology. These objectives are achieved largely through the department's undergraduate and graduate degree programs and partly through the department's student organizations. The purpose of the undergraduate program is to provide academic experiences in psychology for students planning careers in psychology; the department also provides basic and applied psychology courses in support of the nonbehavioral disciplines and the other behavioral disciplines. The master's degree program in psychology prepares students for employment in psychology and for doctoral study in psychology. 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, page 89.

**MAJOR COURSE REQUIREMENTS**

PSYC 1310	Introduction to Psychology .....	3
PSYC 2311, 2312	Advanced General Psychology .....	4
PSYC 2810	Elementary Statistics .....	3
PSYC 3010	Psychology of Learning .....	3
PSYC 3030, 3031	Experimental Psychology .....	4
PSYC 4010	History & Systems .....	3
PSYC 4100	Intro. to the Study of Personality .....	3
Psychology Electives .....		6
<b>Total for Major</b> .....		<b>29</b>

BIOL 1110,1111	Biology for Science Majors I .....	4
BIOL 1120,1121	Biology for Science Majors II or .....	4
BIOL 1130, 1131	Biology for Science Majors III .....	4

**MINOR COURSE REQUIREMENTS**

PSYC 1310	Introduction to Psychology .....	3
PSYC 2311, 2312	Advanced General Psychology .....	4
PSYC 2810	Elementary Statistics .....	3
PSYC 4100	Intro. to the Study of Personality .....	3
Psychology Electives .....		6
<b>Total for Minor</b> .....		<b>19</b>

**Major** – Twenty-nine semester hours in psychology, plus General Biology I and II or III (8 hours) are required. No grade below a “C” will be accepted in psychology major courses. Psychology majors also are required to complete a minor in another discipline.

**Minor** – Nineteen semester hours in psychology are required. No grade below “C” will be accepted in minor courses.

**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 College of Arts and Sciences 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 semester 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 44 credit hours required for Professional Education. 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 - Fall Semester**

ENGL 1010	Critical Reading & Expository Writing .....	3
CSCI 1100	Using Information Technology .....	3
HIST 2010	The United States to 1877 .....	3
PHED 1xxx	.....	1
Arts & Artistic Vision	.....	3
Elective	.....	3
<b>TOTAL</b>	.....	<b>16</b>

**Freshman - Spring Semester**

ENGL 1020	Critical Thinking & Argumentation .....	3
MATH 1530	Probability & Statistics .....	3
HIST 2020	The United States since 1877 .....	3
PSYC 1310	Introduction to Psychology .....	3
Identity Course Selection	.....	3
CSCI 1101	Introduction to Spreadsheets .....	1
<b>TOTAL</b>	.....	<b>16</b>

**Sophomore - Fall Semester**

BIOL 1110/11	Biology for Science Majors Lecture/Lab I .....	4
PSYC 2810	Elementary Statistics .....	3
SPCH 2320	Argumentation & Debate .....	3
Heritage Course Selection	.....	3
PHED 2xxx	.....	1
<b>TOTAL</b>	.....	<b>14</b>

**Sophomore - Spring Semester**

BIOL 1120/21	Biology for Science Majors Lecture/Lab II .....	4
or		
BIOL 1130/31	Biology for Science Majors Lecture/Lab III .....	4
PSYC 2311/12	Advanced General Psychology .....	4
Institutions and Society	.....	3
Humanities Elective	.....	3
<b>TOTAL</b>	.....	<b>14</b>

**Junior - Fall Semester**

Minor Course	.....	6
PSYC 3010	Psychology of Learning .....	3
PSYC 3444	Computer Methods in Psychology .....	3
Electives	.....	6
<b>TOTAL</b>	.....	<b>18</b>

**Junior - Spring Semester**

PSYC 3030/31	Experimental Psychology.....	4
PSYC 4100	Introduction to Study of Personality.....	3
Minor Course	.....	3
General Elective	.....	3
PSYC Elective	.....	3
<b>TOTAL</b>	.....	<b>16</b>

**Senior - Fall Semester**

PSYC 4010	History & Systems of Psychology.....	3
Minor Course	.....	3
Minor Course	.....	3
Electives	.....	6
PSYC Elective	.....	3
<b>TOTAL</b>	.....	<b>18</b>

**Senior - Spring Semester**

Minor Course	.....	6
Electives	.....	10
<b>TOTAL</b>	.....	<b>16</b>

**Department of Social Work (SOWK)**

**P.O. Box 70645**

**Phone: 423/439-4372**

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 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 beginning professional social work practice. 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 extra-curricular events to non-social 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 41-44 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 128 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 1010-1011, 1110-1111, or Health Sciences 2010-2011. 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 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.

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 courses offered by the program, and in English composition. A minor is not required for social work majors.

**REQUIREMENTS FOR ALL SOCIAL WORK MAJORS**

SOWK 1010	Introduction to Social Work .....	3
SOWK 2400	Rural and Appalachian Culture .....	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 3330	Cultural Diversity in SW Practice .....	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 Experience .....	16

Cognate Requirements in Social and Behavioral Sciences		
PSCI 1120	Introduction to American Government .....	3
HDAL 2310	Developmental Life Span Psychology .....	3

**TOTAL HOURS REQUIRED FOR MAJOR ..... 54**

**General Education Core and Proficiency Requirements For Social Work Majors**

(These requirements are detailed earlier in this catalog.)

ENGL 1010	Critical Reading & Expository Writing .....	3
ENGL 1020	Critical Thinking & Argumentation .....	3
MATH 1530	Probability & Statistics .....	3-4
CSCI 1100	Using Information Technology (or challenge) .....	3
HIST 2010	The United States to 1855 .....	3
HIST 2020	The United States since 1855 .....	3
<b>Heritage</b>	Choose one .....	3
PSYC 1310	Introduction to Psychology .....	3
SOAA 1020	Introduction to Sociology .....	3
<b>Oral Intensive</b>	Choose one .....	3
<b>Tech Intensive</b>	Choose one .....	
	(CSCI 1101 for 1 credit is suggested) .....	1-4
PHED/Fitness	Choose one 1000-level course .....	1
PHED/Lifetime	Choose one 2000-level course .....	1
<b>Arts/Artistic Vision</b>	Choose one .....	3
<b>Ident., Ethics, etc.</b>	Choose one .....	3
<b>Humanities Elective</b>	Choose one .....	3
BIOL 1010/11 or 1110-11 or HSCI 2010/11	.....	4
<b>Science</b>	.....	
	Choose one additional .....	4

**TOTAL HOURS OF CORE AND PROFICIENCY ..... 47-53**

**REQUIREMENTS FOR ALL  
SOCIAL WORK MINORS**

(The Council on Social Work Education does not accredit minor programs of study.)

SOWK 1010	Introduction to Social Work .....	3
SOWK 2500	Interviewing and Recording Skills .....	3

The remaining 12 hours may be selected from the following courses:

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 3462	Social Services for Children .....	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

**Total Hours Required For Minor ..... 18**

(See prerequisites under course listing.)

A grade of "C-" or below will not be accepted for the minor and no more than nine hours will be accepted as transfer credit.

**SOCIAL WORK MAJORS**

**Course Sequencing and Suggested Schedule**

**Freshman - Fall Semester**

SOWK 1010	Introduction to Social Work .....	3
ENGL 1010	Critical Reading & Expository Writing .....	3
SOAA 1020	Introduction to Social Work .....	3
SOWK 2500	Interviewing & Recording Skills .....	3
MATH 1530	Probability & Statistics .....	3
PHED	.....	1
<b>TOTAL</b>	.....	<b>16</b>

**Freshman - Spring Semester**

ENGL 1020	Critical Thinking/Argumentation .....	3
Science	(BIOL 1010/11 or 1020/21 or 1110/11 or HSCI 2010/11) .....	4
PHED	.....	1
PYSC 1310	Introduction to Psychology .....	3
CSCI 1100	Using Information Technology or challenge exam .....	3
SOWK 2400	Social Institutions & Appalachian Culture .....	3
<b>TOTAL</b>	.....	<b>17</b>

**Sophomore - Fall Semester**

HIST 2010	The United States to 1877 .....	3
Arts or Ethics	.....	3
HDAL 2310	Development Life Span Psychology .....	3
PSCI 1120	Introduction to American Government .....	3
SOWK 3330	Cultural Diversity in Social Work Practice .....	3
<b>TOTAL</b>	.....	<b>15</b>

**Sophomore - Spring Semester**

HIST 2020	The United States since 1877 .....	3
Heritage/ENGL	.....	3
Arts or Ethics	.....	3
Science	(additional four credits) .....	4
SOWK 3430	Social Welfare Policy & Services .....	3
<b>TOTAL</b>	.....	<b>16</b>

**Junior - Fall Semester**

SOWK 3000	Human Behavior I .....	3
Oral Intensive	.....	3
Writing Intensive	.....	3
Humanities Elective	.....	3
Elective	.....	3
<b>TOTAL</b>	.....	<b>15</b>

**Junior - Spring Semester**

SOWK 3010	Human Behavior II .....	3
SOWK 4310	Social Work Practice I .....	4
SOWK 4210	Social Work Research .....	3
Writing Intensive	.....	3
Electives	.....	3-6
<b>TOTAL</b>	.....	<b>16-19</b>

**Senior - Fall Semester**

SOWK 4320	Social Work Practice II .....	4
SOWK 4210	Social Work Research (if not taken previously) .....	3
Electives	.....	9-12
<b>TOTAL</b>	.....	<b>16-19</b>

**Senior - Spring Semester**

SOWK 4453	Field Experience .....	16
<b>TOTAL</b>	.....	<b>16</b>

**TRANSFER STUDENTS**

**Course Sequencing and Suggested Schedule**

The plan below for entry to ETSU assumes that SOWK 1010 (Intro), Psych 1310 (Intro), 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 2400	Rural and Appalachian Culture .....	3
SOWK 2500	Interviewing & Recording Skills .....	3
SOWK 3000	Human Behavior I .....	3
HDAL 2310	Developmental Life Span Psychology .....	3
PSCI 1120	Introduction to American Government .....	3
<b>TOTAL</b>	.....	<b>15</b>

**Second Semester**

MATH 1530	Probability & Statistics .....	3
SOWK 3010	Human Behavior II .....	3
SOWK 3330	Cultural Diversity in Social Work Practice .....	3
SOWK 3430	Social Welfare Policy & Services .....	3
SOWK 4310	SocialWorkPractice I .....	4
<b>TOTAL</b>	.....	<b>16</b>

**Third Semester**

SOWK 4210	Social Work Research .....	3
SOWK 4320	Social Work Practice II .....	4
Electives	.....	9-12
<b>TOTAL</b>	.....	<b>16-19</b>

**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 2.5 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 and handouts.)

Only students approved as majors 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 their faculty advisor during their first semester in social work.

**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.)

**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.

Each student will be assigned a faculty advisor at the time the student declares social work as a major. When appropriate, the student may select a different advisor.

**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.

A 2.25 overall grade point average and a 2.5 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 Seminar in School Social Work

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

**Department of Sociology and Anthropology  
(SOAA)**

**P.O. Box 70644** **Phone: 423/439-4370**  
**Email: Harville@etsu.edu**

Sociology is the study of people interacting with others at the individual level, in groups, and in social systems. Anthropology is the study of human diversity via biological and cultural evolution. 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 semester 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.

Course Requirements:	
SOAA 1020	Introduction to Sociology ..... 3
SOAA 2020	Social Problems ..... 3
SOAA 3210	Sociological Research ..... 3
SOAA 3350	Social Statistics ..... 3
SOAA 4027	Advanced Principles of Sociology ..... 3
SOAA 4807	Modern Social Theory ..... 3
SOAA Electives*	..... 12
<b>TOTAL:</b>	<b>..... 30</b>

\* Elective courses are to be chosen by the student in counsel with his/her department advisor.

<b>General Education ..... 44-47 Credits</b>	
ENGL 1010	Critical Reading & Expository Writing ..... 3
ENGL 1020	Critical Thinking & Argumentation ..... 3
MATH - - - -	(See specific B.A., B.S., and B.S./s.s. requirements) ..... 3-6
CSCI 1100	Using Information Technology ..... 3
Science	Select two courses in the Area of Familiarity (See specific B.A., B.S., and B.S./s.s. requirements) ..... 8
HIST 2010	United States to 1877 ..... 3

HIST 2020	United States since 1877 ..... 3
ENGL - - - -	One English course listed under the <b>Heritage</b> Section ..... 3

- Select one course from **Arts and the Artistic Vision** ..... 3
- Select one course from **Identity, Ethics and Social Responsibility** ..... 3
- Select two courses from **Institutions and Society** ..... 6
- Select one unduplicated course from the **Humanities** elective section ..... 3

**Intensive Courses** - Students who enter ETSU as freshmen or with less than 60 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.

- Physical Education** ..... 2
- Two courses, one being from the fitness activity category and one from the lifetime activities category.

- B.A. Requirements** ..... 9
- Two courses of a single language at or above the 2000 level ... 6
- One course of non-U.S. History ..... 3
- (Select MATH 1530 to satisfy core requirement)

- B.S. Requirements** ..... 8
- 8 credit hours of single laboratory science in addition to General Education Core.
- (Select MATH 1850 or MATH 1910, including experience in the differential and integral calculus).

- B.S. (Social and Behavioral Sciences) Requirements .... 12**
- MATH 1530 Probability & Statistics - Noncalculus
- 8 credit hours of single laboratory science
- 3 credit hours form each of the following areas:
  - (1) Social Statistics
  - (2) Reasoning and Argumentation
  - (3) Research Design for Social Science
  - (4) Microcomputer Skills

<b>MINOR</b>	.....	<b>18-26 Credits</b>
<b>Electives</b>	.....	<b>10-26 Credits</b>
<b>Total Credit Hours Required for Degree</b>	.....	<b>128</b>

**Minor** – A minor consists of 18 semester 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.

<b>Course Requirements –</b>	
SOAA 1020	Introduction to Sociology ..... 3
SOAA 2020	Social Problems ..... 3
SOAA 3210	Sociological Research ..... 3
SOAA Electives	..... 9
<b>TOTAL:</b>	<b>..... 18</b>

**Anthropology Minor** – The anthropology minor provides students a fundamental understanding of anthropological perspectives on cultural diversity, human biological and cultural evolution, and the dynamic relationship between biology and culture.

A minor in anthropology requires the completion of 18 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.



**Course Requirements -**

SOAA 1240	Intro. to Cultural Anthropology .....	3
SOAA 1280	Intro. to Physical Anthropology and Archaeology .....	3
SOAA Electives	.....	12
<b>TOTAL:</b>	.....	<b>18</b>

\*The electives, which are listed below, should be chosen in consultation with an anthropology advisor. Students are strongly advised to complete both SOAA 1240 and SOAA 1280 before enrolling in elective courses.

SOAA 2040	Folk Culture in the Modern World .....	3
SOAA 2150	American Folk Music .....	3
SOAA 3070	Medical Anthropology .....	3
SOAA 3500	Appalachian Folk Medicine .....	3
SOAA 3700	Peoples and Cultures of Latin America .....	3
SOAA 3800	Religion, Society, and Culture .....	3
SOAA 4627	Ethnographic Fieldwork Techniques .....	3
SOAA 4957	Special Topics in Sociology and 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. That will be decided by the chairperson of the department.

**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 semester 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 44 credit hours required for Professional Education. 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 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 MAJORS IN SOCIOLOGY**

**Freshman Fall - Semester**

SOAA 1020	Introduction to Sociology .....	3
ENGL 1110	Critical Reading/Expository Writing .....	3
HIST 2010	The United States to 1877 .....	3
Natural Science	.....	4
CSCI 1100	Using Information Technology .....	3
Physical Education	.....	1
<b>TOTAL</b>	.....	<b>17</b>

**Freshman - Spring Semester**

SOAA 2020	Social Problems .....	3
ENGL 1120	Critical Thinking/Argumentation .....	3
HIST 2020	The United States since 1877 .....	3
Natural Science	.....	4
MATH 1530	Probability and Statistics .....	3
Physical Education	.....	1
<b>TOTAL</b>	.....	<b>17</b>

**Sophomore - Fall Semester**

Sociology elective	.....	3
Heritage Literature	.....	3
Institutions and Society	.....	3
Identity, Ethics and Social Responsibility	.....	3
Minor requirement	.....	3
CSCI 1101	Introduction to Spreadsheets .....	1
<b>TOTAL</b>	.....	<b>16</b>

**Sophomore - Spring Semester**

Sociology elective	.....	3
Arts & the Artistic Vision	.....	3
Humanities option	.....	3
Minor	.....	3
Minor elective	.....	3
<b>TOTAL</b>	.....	<b>15</b>

**Junior - Fall Semester**

SOAA 3210	Sociological Research .....	3
Sociology elective	.....	3
Minor requirement or elective	.....	3
PHIL 2030 or SPCH 2320	.....	3
Free elective	.....	3
<b>TOTAL</b>	.....	<b>15</b>

**Junior - Spring Semester**

SOAA 3350	Social Statistics .....	3
SOAA 3444	Microcomputers as a Research Tool .....	3
Minor requirement or elective	.....	3
Free elective	.....	3
Free elective	.....	3
<b>TOTAL</b>	.....	<b>15</b>

**Senior - Fall Semester**

SOAA 4027	Advanced Principles of Sociology .....	3
SOAA 4807	Modern Social Theory .....	3
Minor requirement or elective	.....	3
Other electives	8	
<b>TOTAL</b>	.....	<b>17</b>

**Senior - Spring Semester**

Sociology elective	.....	3
Sociology or minor elective	.....	3
Free elective	.....	3
Other electives	.....	8
<b>TOTAL</b>	.....	<b>17</b>

### Women's Studies Minor

P.O. Box 70667

Phone: 423/439-7571

The major purpose of the women's studies minor is to provide students with an interdisciplinary education about history, society, culture, politics, economics, and legal issues as related to women. The goals of this endeavor are to create an increased awareness of gender issues, foster individual development and decision-making, and encourage effective participation in our complex social world. Courses are designed to assist the students in developing philosophical and historical perspectives on gender; appreciating the contribution of women to the arts, sciences, and humanities; and making informed choices as individuals and professionals.

Students who minor in Women's Studies can use their knowledge about women's issues to work as advocates for women in social service and activist organizations. In addition, the minor complements careers related to criminal justice, politics, health care, teaching, the media, social work, communication, and a variety of other arenas. The minor can also help prepare students for the Women's Studies option in the interdisciplinary Master of Arts in Liberal Studies degree program. Regardless of career choice, the Women's Studies minor prepares students to serve as a progressive voice for change and equality in our society.

The minor in Women's Studies requires the completion of 18 hours of coursework chosen from among the following courses:

#### Course Requirements:

WMST 2010 Introduction to Women's Studies .....	3
Senior Seminar .....	3
(Select from approved upper-division electives)	
Approved Electives .....	12
<b>Total .....</b>	<b>18</b>

#### Approved Electives

CJCR 4670 Race, Gender, and Crime .....	3
CJCR 4957 Special Topics: Violence Toward Women .....	3
ENGL 3500 Women Authors .....	3
ENGL 4087 Themes in Women's Literature .....	3
ENGL 4290 Film Genres: Women in Film .....	3
FCNU 4500 Women's Health Issues .....	3
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
PHIL 3110 Philosophy of Feminism.....	3
SOAA 3030 Gender and Society .....	3
SOWK 3000 Human Behavior in the Social Envir. ....	3
SPCH 4957 Special Topics: Gender and Communication .....	3

\*With approval of the Women's Studies Committee, additional special topics courses may be counted in the minor. Students must meet any departmental prerequisites, or obtain the instructor's permission.

College of Business

**P. O. Box 70699**  
**Internet address: <http://business.etsu.edu>**

**Phone: 423/439-5275**  
**Fax: 423/439-5274**

Accredited by: AACSB - The Association to Advance Collegiate Schools of Business

The mission of the College of Business is to provide high-quality educational experiences to equip students, other individuals and organizations, primarily within the Southern Appalachian region, with the abilities and technological skills necessary to succeed in business, government and related professions increasingly engaged in global activities; and to provide leadership in supporting regional, national, and international constituencies by collaborating for the progressive development of business, government, health care systems and the professions.

To achieve this mission, undergraduate students receive 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 College of Business Bachelor of Business Administration (B.B.A.) curriculum includes general education requirements in the liberal arts and sciences, College of Business core requirements, and major program requirements.

Five undergraduate majors and several concentrations leading to the B.B.A. degree are available in the College of Business. 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, operations management, general management, management information systems, legal studies, integrated marketing communications, and food marketing.

The college also offers the Bachelor of Arts degree (B.A.) in Economics which is a non-business degree.

The college prepares students to pursue graduate study in accountancy, business, economics, and law. In addition, it provides the opportunity and environment for faculty research and service to the business community.

### College of Business Honors Program

The College of Business has initiated an Honors Program to attract, retain and recognize outstanding students. The program provides an enriched academic experience for selected students. It features 21 credit hours of college-wide and department-specific honors courses and seminars in business.

Applicants to the program should have a high school grade point average of 3.5 or greater and an ACT score of 29 or more (or an equivalent SAT score). Scholarships are available. Interested students should contact the College of Business Honors Program Director, East Tennessee State University, P.O. Box 70699, Johnson City, TN 37614.

**College Of Business Internship Program** – The College of Business offers an Internship Program for business students wishing practical experience in their major. Students must be College of Business majors with an overall GPA of 2.7 and have a GPA of 3.0 in College of 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.

**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) College of Business courses must have junior- or senior-level standing and have completed prerequisite courses.

**Major** – Students in the College of 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 requirements listed below are met. 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 College of 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 College of Business B.B.A. majors are required to complete the curriculum outlined below.

### Basic Curriculum for All College of Business B.B.A. Majors

**General Education Requirements: ..... 49 Credit Hours**

ENGL 1010	Critical Reading & Expository Writing	3
ENGL 1020	Critical Thinking and Argumentation	3
MATH 1530	Probability & Statistics - Non-Calculus	3
CSCI 1100	Using Information Technology	3
	Physical Education, Military Science, or Marching Band	2
HIST 2010	The United States to 1877	3
HIST 2020	The United States, 1877 - Present	3
	Heritage option ENGL 2030, 2130, 2210, 2220, or 2430	3
	Arts and The Artistic Vision option*	3
	Identity, Ethics, and Social Responsibility option*	3
	Natural Sciences option*	8
	ECON 2210 and 2220 Principles of Economics I and II	6
	Humanities option*	3
	Institutions and Society option*	3

**B.B.A. Core Requirements: ..... 36 Credit Hours**

ACCT 2010 & 2020	Principles of Accounting I and II	6
ECON 2070 & 2080	Quantitative Methods for Business I & II	6
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 Program Requirements: ..... 24-27 Credit Hours\*\***

See separate catalog listings for requirements in each major.

**Freshman Requirement:**

BADM 1130	Introduction to Business	3 Credit Hours
	Free Electives	3 Credit Hours
	Non-business Electives	10-13 Credit Hours

**Total Hours Required for Degree ..... 128 Credit Hours**

\*See university General Education Core Requirements for options.

\*\*The marketing major and the general management concentration have 24 credit hours of major program requirements and 14 credit hours of non-business electives. All other business majors and concentrations have 27 credit hours of major program requirements and 11 credit hours of non-business electives.

All business graduates must earn a minimum 2.0 overall GPA in all core requirements and in all major program requirements.

**Special Admission Requirements for College of Business 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 & Expository Writing  
 ENGL 1020 Critical Thinking & Argumentation  
 MATH 1530 Probability & Statistics - Non-Calculus

- c. The student must have completed the following College of Business courses with at least a 2.0 overall grade point average:

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  
 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 College of Business admissions and retention policies, as well as career opportunities in business, may be obtained in the college's Office of Undergraduate Studies in room 213, Sam Wilson Hall, phone (423) 439-5275.

**Minor** – A minor is not required for students who have B.B.A. majors.

**Graduate Studies** – The College of Business offers the Master of Business Administration (M.B.A.) degree, the Master of Accountancy (M.Acc.) degree, the Master of Public Management (M.P.M.) 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.

**Computer-Integrated Manufacturing Program (CIM)** – The computer-integrated manufacturing program is a cooperative effort involving the College of Applied Science and Technology, the College of Business, other university sectors, and industry.

**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.

**Suggested Course Sequence for All B.B.A. Majors in the College of Business**

**Freshman Year**

First Semester	Credit Hours
BADM 1130 Introduction to Business .....	3
ENGL 1010 Critical Reading & Expository Writing .....	3
MATH 1530 Probability & Statistics - Non-Calculus .....	3
Natural Science Option .....	4
HIST 2010 United States History to 1877 .....	3
Physical Education .....	1
Semester Total .....	17

Second Semester	Credit Hours
ENGL 1020 Critical Thinking & Argumentation .....	3
Institution & Society Option .....	3
Natural Science Option .....	4
CSCI 1100 Using Information Technology.....	3
HIST 2020 United States History Since 1877 .....	3
Physical Education .....	1
Semester Total .....	17

**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
Heritage (Literature) Option .....	3
Identity, Ethics, & Social Responsibility Option .....	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
Arts & Artistic Vision .....	3
Humanities Option .....	3
Semester Total .....	15

**Junior Year\*\***

First Semester	Credit Hours
Business Core, Major, and Non-Business Elective courses .....	15
Free Elective .....	3
Semester Total .....	18

Second Semester	Credit Hours
Business Core, Major, and Non-Business Elective courses .....	17
Semester Total .....	17

**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 .....	11
Semester Total .....	14

\*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 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 128 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.

**College Of 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 3300, 4447, 4520, 4560, 4597, 4617 and 4620; Management 3300, 3320 and 4910; Marketing 3750 and 4910. Oral Communication-Intensive (OCI) courses are Accountancy 3000; Economics 3700; Finance 4597, 4617 and 4620; Management 3200, 4010 and 4020; 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 Office of Undergraduate Studies, Room 213 Sam Wilson Hall or call 423-439-5275.

**Department of Accountancy (ACCT)**

**P.O. Box 70710** **Phone: 423/439-4432**  
**220 Sam Wilson Hall**  
**Internet address: <http://business.etsu.edu>**

**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 2.5; (2) earn a minimum of a “C” in each accounting course; and (3) meet College of Business admission requirements.

**Accountancy Major**

		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 4710	Not-for-Profit Entity Accounting .....	3
	<b>Total .....</b>	<b>27</b>

**Accountancy Minor**

		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	
	(Select from courses in accountancy major) .....	6
	<b>Total .....</b>	<b>18</b>

**Graduation Requirements:**

Accountancy Majors must have a grade of a “C” or better in each accounting course.

**Department of Economics, Finance and Urban Studies (ECON)(FNCE)(URBS)**

**P.O. Box 70686** **Phone: 423/439-4202**  
**227 Sam Wilson Hall**

The Department of Economics, Finance and Urban Studies is unique in the College of Business in that it offers both Business and non-business degree programs. The primary purpose of the department is to provide a pragmatic, interdisciplinary education for students who wish to enter business or governmental service, or pursue postgraduate studies in business,

economics, law, or public management. 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 Business Administration (B.B.A.) program offers study leading to the Bachelor of Business Administration degree in either Economics or Finance. The Economics program offers degree concentrations in Business Economics or General Business and Economics. The Finance program offers degree concentrations in Corporate Finance and Investments, Banking, and Real Estate.

The Bachelor of Arts (B.A.) program offers study leading to the Bachelor of Arts Degree in Economics and Bachelor of Arts Degree in Economics with concentration in Urban and Regional Studies (see B.A. Degree in Economics in this catalog). This is a non-business degree.

**Economics Major  
 Bachelor of Business Administration  
 Concentration I – Business Economics**

	Credit Hours
<b>Basic Requirements:</b>	
ECON 3310	Monetary Economics .....
ECON 4337	Government Finance & Public Choice .....
ECON 4610	Managerial Economics .....
	<b>3</b>
	<b>3</b>
	<b>3</b>
<b>Specific Requirements:</b>	
ECON 3030	Microeconomics: Theories of Business Behavior .....
ECON 3040	Macroeconomics: Analysis & Policy .....
	<b>3</b>
	<b>3</b>
<b>Select three courses from the following: .....</b>	
ECON 3700	History of Economic Concepts
ECON 4327	Labor Economics
ECON 4447	Urban and Regional Economics
ECON 4457	Industrial Organization and Regulation
ECON 4527	International Economics
	<b>9</b>
<b>College of Business elective:* .....</b>	
	<b>3</b>
	<b>Total .....</b>
	<b>27</b>

\*This elective must be approved by the chair of the Department of Economics, Finance, and Urban Studies prior to enrollment.

**Concentration II – General Business and Economics**

	Credit Hours
<b>Basic Requirements:</b>	
ECON 3310	Monetary Economics .....
ECON 4337	Government Finance and Public Choice .....
ECON 4610	Managerial Economics .....
	<b>3</b>
	<b>3</b>
	<b>3</b>
<b>Specific Requirements: .....</b>	
	<b>15</b>

Select one course from each of the following five groups of courses:

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 4430	Risk Management	
	FNCE 4447	Banking and Financial Intermediation	
Group 3	MGMT 4010	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 Comm.	
	College of Business elective* .....		<b>3</b>
	<b>Total .....</b>		<b>27</b>

\*This elective must be approved by the chair of the Department of Economics, Finance, and Urban Studies prior to enrollment.

**Economics Minor**

	Credit Hours
ECON 2210 Principles of Economics I .....	3
ECON 2220 Principles of Economics II .....	3
ECON 3310 Monetary Economics .....	3
ECON 4337 Government Finance and Public Choice .....	3
Economics electives* .....	6
<b>Total .....</b>	<b>18</b>

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

**General Business Minor\***

	Credit Hours
** ACCT 2010 Principles of Accounting I .....	3
** ACCT 2020 Principles of Accounting II .....	3
*** ECON 2220 Principles of Economics II .....	3
FNCE 2220 Personal Finance or	
FNCE 3220 Business Finance .....	3
MKTG 3200 Principles of Marketing .....	3
MGMT 3000 Organizational Behavior & Management .....	3
MGMT 3310 Legal Environment of Business .....	3
<b>Total .....</b>	<b>21</b>

\*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 student's college-level math requirement is a prerequisite for Principles of Accounting I and II.

\*\*\*Students should complete Economics 2210 as part of the General Education requirements.

**Finance Major**

**Concentration I – Corporate Finance and Investments**

	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 other ACCT course with the approval of the chair of the Department of Economics, Finance and Urban Studies .....	3
FNCE 4560 Portfolio Theory and Valuation .....	3
FNCE 4590 International Financial Management .....	3
FNCE 4620 Financial Analysis and Policy .....	3

Select six hours from: .....

ECON 4610 Managerial Economics .....	6
FNCE 4330 Real Estate Finance .....	
FNCE 4430 Risk Management .....	
FNCE 4447 Banking and Financial Intermediation .....	
FNCE 4617 Applied Portfolio Management .....	

OR other upper division College of Business electives.\*  
**Total .....** 27

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

**Concentration II – Banking**

	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 4590 International Financial Management .....	
OR other upper division College of Business electives.*	
<b>Total .....</b>	<b>27</b>

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

**Concentration III – Real Estate**

	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: .....

FNCE 3130 Real Estate Law .....	6
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 Electives.*	
<b>Total .....</b>	<b>27</b>

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

**Finance Minor**

	Credit Hours
ACCT 2010 Principles of Accounting I .....	3
ECON 2220 Principles of Economics II .....	3
FNCE 3220 Business Finance .....	3
Finance electives* .....	9
<b>Total .....</b>	<b>18</b>

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

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

**P.O. Box 70625  
225 Sam Wilson Hall**

**Phone: 423/439-4422**

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 five concentrations. The marketing program offers study leading to the bachelor of business administration degree with a major in marketing. Marketing majors must select one of three concentrations. Programs are designed to equip students with conceptual foundations and practical skills necessary for entry-level positions in both private and public-sector organizations.

**Management Major**

**Concentration I – Human Resources Management**

	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 4777	Employment 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 .....	
Total .....		24

**Concentration II – Logistics/Supply Chain in Management**

Basic Requirements		Credit Hours
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	Intro. to Computer Integrated Manufacturing .....	
MGMT 3660	Project Management .....	
MGMT 4217	Service Operations Management .....	
MGMT 4510	Human Resource Management .....	
MGMT 4327	Decision Modeling and Simulation .....	
OR upper division College of Business or Department of Technology electives. These electives may be tailored into focus areas to fit the specific educational needs of the student.*		
Total .....		27

\*These electives must be approved by the chair of the Department of Management and Marketing prior to enrollment.

**Concentration III – Management Information Systems**

Basic Requirements		Credit Hours
MGMT 4020	Organizational Theory & Development .....	3
MGMT 4030	Current Management Issues .....	3
Specific Requirements:		
CSCI 1101	Introduction to Spreadsheets .....	1
CSCI 1102	Introduction to Database Applications .....	1
CSCI 1800	Visual Programming Design with Applications .....	3
BADM 4857	Electronic Commerce .....	3
MGMT 4330	Data Management .....	3
MGMT 4210	Systems Analysis & Design .....	3
CSCI 3400	Network Design & Management .....	3
Select any two courses from: .....		6
MGMT 4357	Introduction to Computer Integrated Manufacturing .....	
MGMT 3660	Project Management .....	
MGMT 4327	Decision Modeling and Simulation .....	
Total .....		29

**Concentration IV – Legal Studies**

Basic Requirements		Credit Hours
MGMT 4020	Organizational Theory & Development .....	3
MGMT 4030	Current Management Systems .....	3
Specific Requirements:		
MGMT 4440	Governmental Regulations of Business .....	3
ENGL 3120	Preprofessional Writing, OR .....	3
ENGL 3130	Advanced Composition .....	3

Select any four courses from: .....		12
MGMT 4777	Employment Law .....	
MGMT 4667	Environment 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 .....	
Total .....		24

**Concentration V – General Management**

Basic Requirements		Credit Hours
MGMT 4020	Organizational Theory & Development .....	3
MGMT 4030	Current Management Systems .....	3

Specific Requirements:		
MGMT 4510	Human Resource 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	Introduction to Computer Integrated Manufacturing .....	

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 electives*		
Total .....		24

\*These electives must be approved by the chair of the Department of Management and Marketing prior to enrollment.

**Management Minor**

		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
Total .....		21

\*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 8 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 Student Life 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 student's 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 Assistant Vice President for Student Life and Leadership.

**Core Competency**

**Ethics and Social Responsibility**

Select one course from:	3
HUMT 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 3120 Pre-Professional Writing	
ENGL 3130 Advanced Composition	
ENGL 3030 Technical Communications	
JOUR 2120 Writing for Print Media	

Focused Competency electives	6
MGMT 3000 Organizational Management	3
MGMT 4460 or	
ELPA 4460 Leadership Studies	3
Required Portfolio	
<b>Total</b>	<b>21</b>

**Marketing Major**

**Concentration I – Marketing Management**

Basic Requirements	Credit Hours
MKTG 3202 Consumer Behavior	3
MKTG 4617 Marketing Research	3
MKTG 4910 Marketing Management	3
Specific Requirements:	
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	6
Any two Marketing courses or approved electives*	
<b>Total</b>	<b>24</b>

\*These electives must be approved by the chair of the Department of Management and Marketing prior to enrollment.

**Concentration II – Integrated Marketing Communications**

Basic Requirements	Credit Hours
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	6
Any two Marketing courses or approved electives*	
<b>Total</b>	<b>24</b>

\*These electives must be approved by the chair of the Department of Management and Marketing prior to enrollment.

**Concentration III – Food Marketing**

Basic Requirements	Credit Hours
MKTG 3202 Consumer Behavior	3
MKTG 4617 Marketing Research	3
MKTG 4910 Marketing Management	3
Specific Requirements:	
MKTG 3210 Fundamentals of Distribution	3
MKTG 3350 Retailing	3
MKTG 4840 Food Marketing Issues & Strategies	3
MKTG 4905 Marketing Internship	3
Elective:	3
Any Marketing course or approved elective*	
<b>Total</b>	<b>24</b>

**Marketing Minor**

	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
<b>Total</b>	<b>21</b>

\*These electives must be approved by the chair of the Department of Management and Marketing prior to enrollment.

**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:

1. ARE REQUIRED to satisfy "Bachelor Degree Requirements" listed below.
2. DO NOT complete the College of Business "BASIC CURRICULUM FOR ALL COLLEGE OF BUSINESS B.B.A. MAJORS" found on page 127 of this catalog.
3. ARE REQUIRED to demonstrate proficiency in a foreign language (see page 108 of this catalog).
4. 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.

**Requirements for the Bachelor of Arts in Economics (B.A.)**

General Education Requirements:	49 Credit Hours
ENGL 1010 Critical Reading & Expository Writing	3
ENGL 1020 Critical Thinking & Argumentation	3
Mathematics Option*	3
CSCI 1100 Using Information Technology	3
Physical Education (Lifetime)	1
Physical Education (Fitness)	1
Heritage Option*	3
HIST 2010 United States to 1877	3
HIST 2020 United States Since 1877	3
Arts & Artistic Vision*	3



Institution & Society Option (non-Economics) .....	3
Identity, Ethics, and Social Responsibility Option .....	3
Natural Science Option* .....	8
Humanities Option* .....	3
Foreign Language Option* .....	6

\*See page 51 of this catalog for General Education Options

Note: Students studying for a B.A. must complete 3 hours credit in Non-U.S. History. The Department recommends either HIST 1010 or 1020 to fulfill the Humanities Option.

<b>Economics Core Requirements</b> .....	<b>24 Credit Hours</b>
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 Business Behavior .....	3
ECON 3040 Macroeconomics: Analysis & Policy .....	3
ECON 3310 Monetary Economics .....	3
ECON 3700 History of Economic Concepts .....	3
Select 2 courses from: .....	6 Credit Hours
ECON 4327 Labor Economics .....	3
ECON 4337 Gov. Finance and Public Choice .....	3
ECON 4347 Collective Bargaining .....	3
ECON 4447 Urban and Regional Economics .....	3
ECON 4457 Industrial Organization & Regulation .....	3
ECON 4527 International Economics .....	3
ECON 4610 Managerial Economics .....	3

Minor Field 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.

Free Electives ..... 29-32 credit hours

**Total Hours Required for B.A. Degree ..... 128**

**Requirements for the Bachelor of Arts in Economics (B.A.)  
with a Concentration in Urban and Regional Studies**

<b>General Education Requirements:.....</b>	<b>49 Credit Hours</b>
ENGL 1010 Critical Reading & Expository Writing .....	3
ENGL 1020 Critical Thinking & Argumentation .....	3
Mathematics Option* .....	3
CSCI 1100 Using Information Technology .....	3
Physical Education (Lifetime) .....	1
Physical Education (Fitness) .....	1
Heritage Option* .....	3
HIST 2010 United States to 1877 .....	3
HIST 2020 United States Since 1877 .....	3
Arts & Artistic Vision* .....	3
Institution & Society Option (non-Economics) .....	3

Identity, Ethics, and Social Responsibility Option ..... 3

Natural Science Option* .....	8
Humanities Option* .....	3
Foreign Language Option* .....	6

\*See page 51 of this catalog for General Education Options

Note: Students studying for a B.A. must complete 3 hours credit in Non-U.S. History. The Department recommends either HIST 1010 or 1020 to fulfill the Humanities Option.

<b>Economics Core Requirements</b> .....	<b>24 Credit Hours</b>
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 Business Behavior .....	3
ECON 3040 Macroeconomics: Analysis & Policy .....	3
ECON 3310 Monetary Economics .....	3
ECON 3700 History of Economic Concepts .....	3

**Urban and Regional Studies**

<b>Core Requirements</b> .....	<b>15 Credit Hours</b>
URBS 3100 Intro to Urban & Regional Planning .....	3
PSCI 4020 Urban Politics .....	3
PSCI 4160 Idea of the City .....	3
URBS 4637 Local and Regional Planning .....	3
ECON 4447 Urban & Regional Economics .....	3

Select 7 courses from: ..... 21 Credit Hours

With guidance from their advisor, students will select seven courses from the list below:

(Note: No more than 3 courses or 9 semester hours may be College of Business courses)

ACCT 4710 Not-for-Profit Accounting .....	3
ECON 4327 Labor Economics .....	3
ECON 4337 Gov. Finance and Public Choice .....	3
ECON 4957 Topics in Economics .....	3
ENVH 3100 Water Supplies & Wastewater Treatment .....	3
ENVH 3700 Solid Waste Management .....	3
ENTC 2420 Resid. & Commercial Planning .....	4
ENTC 3420 Adv. Const. Estimating & Planning .....	4
FNCE 3120 Principles of Real Estate .....	3
FNCE 4320 Real Estate Appraisals .....	3
GEOG 3010 Economic Geography .....	3
URBS 4107 Urban Geography & Planning .....	3
GEOG 4217 Geographic Information Systems .....	3
GEOG 4227 Remote Sensing .....	3
HIST 4197 Urban History .....	3
MGMT 3000 Organizational Behavior & Mgmt .....	3
MGMT 4510 Human Resource Management .....	3
PSCI 4650 Bureaucracy and Public Policy .....	3
PSCI 4690 Topics: Public Administration & Policy .....	3
PSCI 3200 Law and Judicial Process .....	3
PSCI 4040 Public Opinion .....	3
PSCI 4450 Power & Politics in Appalachia .....	3
SOAA 4157 Sociology of the City .....	3
URBS 4087 Recreation & Tourism Planning .....	3

Free Electives ..... 20 credit hours

**Total Hours Required for B.A. degree ..... 128**

**Urban and Regional Studies Minor**

URBS 3100 Intro. to Urban & Regional Planning .....	3
URBS 2610 Intro. to Public Administration .....	3
ECON 4447 Urban and Regional Economics .....	3
SOAA 3150 Urbanization .....	3
<b>Total</b> .....	<b>12 credit hours</b>

Guided Electives\* ..... 9

**21 credit hours**

and Urban Studies prior to enrollment.

## School of Continuing Studies

**P.O. Box: 70733**

**Phone: 423/439-8300**  
**http://www.etsu.edu/scs**

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 and the Master of Arts in Liberal Studies degrees. The Division also facilitates credit classes at sites other than Johnson City, Bristol, Greeneville, and Kingsport. 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.

### Office of Professional Development

The Office of Professional Development responds to the demand for specialized continuing education, lifelong learning opportunities, and training by offering courses and activities throughout the region, while highly defined and technical programs allow the scope of this unit to extend beyond the region. This unit is a major source for seminars, workshops, conferences, non-credit courses, teleconferences, and customized training for the professional, cultural, industrial, educational, and business communities. In-house programs can be designed to fit the needs of private or public sector employers and professional organizations. Interaction with the community occurs on a daily ongoing basis. Lifelong learning and serving the public are major goals. Professional Development partners with other ETSU departments and offices, when applicable, to achieve these goals.

### ETSU/UT at Kingsport

**Kingsport** – Day, evening, and weekend classes including lower division, upper division, and graduate courses are offered each term at the ETSU/UT 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.

The University of Tennessee Kingsport Graduate Program serves students enrolled in graduate engineering programs and students who are interested in the University of Tennessee's online programs through their office of distance education and independent study.

Facilities on the 100-acre site include computer registration via *GoldLink Online*, bookstore, library, biology and chemistry labs, computer labs, and a gymnasium/weight room.

**Office hours:** Monday-Friday 7:30 a.m. - 7 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, three instructional television classrooms, a bookstore annex, and a Grand Hall for community events.

Students may pursue a Bachelor of General Studies (B.G.S.) 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, and Master of Business Administration (M.B.A.).

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

### ETSU at Greeneville

**Greeneville** – Working cooperatively with Walters State Community College, ETSU offers junior, senior and graduate-level courses from selected academic disciplines to the residents of the Greeneville area each semester. Both day and evening courses are delivered through ETSU's distance education program and in the traditional classroom setting. A state-of-the-art computer lab provides Greeneville students with access to the ETSU Library and the Internet.

Located in the Greeneville-Greene County Center for Higher Education, at 215 North College Street, this new site represents a sharing of facilities between two Tennessee Board of Regents institutions and enhanced access to opportunities for advanced education and lifelong learning. ETSU and Walters State have an articulation agreement in Greeneville that improves student transfer between the community college and the university. Current ETSU coursework at the Greeneville Site is centered around the academic disciplines addressed in the articulation agreement and other courses and cohort programs designed for the specific needs of the local community. The Greeneville site is also home to the Tennessee Institute for Economic Development, a unique public service partnership between the TBR and UT systems.

**Office hours:** Monday-Thursday 8:00 a.m. - 7:00 p.m.  
Friday 8:00 a.m. - 4:30 p.m.  
**Telephone:** (423) 787-7300  
**Fax:** (423) 787-7305

**Office of Distance Education**

P.O. 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 usually scheduled campus classes transmitted to off-campus locations at ETSU/UT at Kingsport, ETSU at Bristol, and ETSU at Greeneville. 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/UT at Kingsport Library, ETSU at Greeneville 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/UT at Kingsport library (423-392-8000), ETSU at Bristol (423-844-6300), and ETSU at Greeneville (423-787-7300).

**Internet and Web-Enhanced Courses.** ETSU's Office of Distance Education licenses Blackboard CoursesInfo, 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. In fall 2001, the Associate in Science to Bachelor of Science in Dental Hygiene degree from the College of Public and Allied Health began.

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.

<b>Bachelor of General Studies (B.G.S.)</b>	
<b>P.O. Box 70659</b>	<b>Phone: 423/439-4223</b>

The School of Continuing Studies offers the Bachelor of General Studies (B.G.S.) to provide adult students 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 program is intended 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 graduation requirements and the student's personal and professional goals. Recognizing that learning takes place in nonacademic settings, the B.G.S. program encourages students to pursue credit for college-level prior learning. Credit may be earned through such programs as the College Level Examination Program (CLEP), departmental challenge exams, or submission of a prior learning portfolio that is evaluated by ETSU faculty. Due to the unique nature of this degree, double majors are not allowed.

**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 semester hours. (Exceptions to the 100 hours completed may be appealed to the Associate Dean, 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 Requirement:**

**1. General Education Core Requirements:**

ENGL 1010	Critical Reading & Expository Writing .....	3
ENGL 1020	Critical Thinking & Argumentation .....	3
MATH	.....	3-4
CSCI 1100	Using Information Technology .....	3
Science	.....	4
Science	.....	4
HIST 2010	The United States to 1877 .....	3
HIST 2020	The United States since 1877 .....	3
Heritage	.....	3
Arts and the Artistic Vision	.....	3
Identity, Ethics and Social Responsibility	.....	3
Institutions and Society	.....	3
Institutions and Society	.....	3
Humanities Elective	.....	3
<b>General Education Core Total .....</b>		<b>44-45</b>

**Additional graduation requirements:**

PHED Fitness .....	1
PHED Lifetime .....	1
Proficiency intensives	

- Individual Learning Plan (ILP).** The student's Individual Learning Plan, designed with the help of an academic advisor, must include the following course: BGSD 3210 Professional Field Experience (three semester hours). The ILP is prepared early in the student's program. Each student's 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 to no more than 25 percent of the total number of hours completed for the B.G.S. degree.
- Senior-Level Institution.** A minimum of 60 semester hours must be completed at a senior-level (four-year) institution.
- Upper Division and Residency.** 34 credits of the student's total program must be upper division (3000/4000 levels). At least 30 semester hours of credit must be completed in residence at ETSU. Evening, off-campus courses, and credit earned through the portfolio are considered residence credit.
- Grade Point Average.** A minimum grade point average of 2.0 is required to graduate.
- Minor.** A minor is not required for B.G.S. students but students may choose to pursue a minor as it fits their goals.
- Professional Field Experience.** Satisfactory completion of the B.G.S. Professional Field Experience (BGSD 3210) is required to graduate.
- Total Hours.** 120 semester hours are required.

**BGSD 3210. Professional Field Experience (3 credits)** – Required of all B.G.S. students. Senior standing. The purpose is to increase the student's 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., B.S.P.S. and B.A.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 semester hours. Credit earned through the prior learning portfolio is ungraded and does not affect the student's grade point average. Portfolio credit does count as ETSU residence credit.

**Bachelor of Applied Science (B.A.S.)**

**P.O. Box 70659** **Phone: 423/439-4223**  
**916 W. Maple St.**

The Bachelor of Applied Science (B.A.S.) degree is designed to offer 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 a four-year institution. It is not intended for students with degrees in health-related areas where articulation agreements with ETSU already exist. The B.A.S. is an individualized program that allows students to design a program of study that best meets their needs for professional development and career enhancement.

**Admission Requirements**

- Students must have the A.A.S. degree in a field that does not have an articulated program with ETSU.
- Students apply to ETSU and must meet ETSU general admission requirements.
- Upon acceptance to ETSU, students complete an admissions interview with a B.A.S. advisor.
- The B.A.S. advisor recommends admission or denial to the Associate Dean, Division of Cross-Disciplinary Studies.
- The Associate Dean accepts or denies admission.

**Curriculum Requirements**

**1. General Education Core Requirements:**

ENGL 1010	Critical Reading & Expository Writing .....	3
ENGL 1020	Critical Thinking & Argumentation .....	3
MATH	.....	3-4
CSCI 1100	Using Information Technology .....	3
Science	.....	8
HIST 2010	The United States to 1877 .....	3
HIST 2020	The United States since 1877 .....	3
Heritage	.....	3
Arts and the Artistic Vision	.....	3
Identity, Ethics and Social Responsibility	.....	3
Institutions and Society	.....	6
Humanities Elective	.....	3
<b>General Education Core Total .....</b>		<b>44-45</b>

**Additional graduation requirements:**

PHED Fitness .....	1
PHED Lifetime .....	1
Proficiency intensives	

- A.A.S. degree transfer hours.** Up to 60 credits from the student's A.A.S. degree may be applied to the B.A.S. degree.
- 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 student's 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 student's 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.
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.

### Curriculum Requirements

1. **General Education Core Requirements.** Students may choose regular ETSU general education core courses or RODP general education core courses that are currently developed.\*

ENGL 1010	Critical Reading & Expository Writing .....	3
ENGL 1020	Critical Thinking & Argumentation .....	3
MATH	.....	3-4
CSCI 1100	Using Information Technology .....	3
Science	.....	8
HIST 2010	The United States to 1877 .....	3
HIST 2020	The United States since 1877 .....	3
Heritage	.....	3
Arts and the Artistic Vision	.....	3
Identity, Ethics and Social Responsibility	.....	3
Institutions and Society	.....	6
Humanities Elective	.....	3
<b>General Education Core Total</b> .....		<b>44-45</b>

#### Additional graduation requirements:

PHED Fitness	.....	1
PHED Lifetime	.....	1
Proficiency intensives		

\* Current RODP general education core courses:

(All RODP courses are identified with R50 as the section number)

ENGL 1010	English Composition I (Writing) .....	3
ENGL 1020	English Composition II (Writing) .....	3
MATH 1530	Probability/Stats (Non-calc)(Using Math) .....	3
BIOL 1010	Introduction to Biology I (Science) .....	4
BIOL 1020	Introduction to Biology II (Science) .....	4
HIST 2010	Survey of U.S. History I (Heritage) .....	3
HIST 2020	Survey of U.S. History II (Heritage) .....	3
ENGL 2110	Survey of American Lit (Heritage) .....	3
ENGL 2410	Lit of Western World (Heritage) .....	3
ART 1030	Art Appreciation (Arts and Artistic Vision) .....	3
MUS 1030	Music Appreciation (Arts and Artistic Vision) ....	3
ECON 2030	Survey of Economics (Institutions and Society) .....	3
PSY 101	General Psychology .....	3
SOC 1010	Intro to Sociology .....	3

#### NOTE FOR RODP MAJORS (B.S.I.S. and B.S.P.S.) ONLY:

- a. BIT 1150 R50, Intro to Microcomputers, may be used to fulfill the CSCI 1100 requirement.
- b. HMSE 1100 R50, Concepts of Fitness and Wellness, may be used to fulfill the physical education requirement.

*If a student changes majors, these courses will not fulfill the regular graduation requirements.*

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. There may be no duplication of courses between the two concentrations. An approved ETSU minor may be substituted for a concentration.
3. **Guided electives.** The student will complete up to 51 hours of advisor-approved elective courses.
4. **Upper division requirement.** 34 hours of the student's entire B.S.I.S. degree program must be at the 3000/4000 levels.
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.

### Bachelor of Science in Interdisciplinary Studies (B.S.I.S.) A Regents Online Degree Program (RODP) at ETSU

P.O. Box 70659  
916 W. Maple St.

Phone: 423/439-4223

The web-based Bachelor of Science in Interdisciplinary Studies (B.S.I.S.) is part of the TBR Regents Online Degree Program (RODP) that began fall 2001. It is designed especially to meet the needs of those whose access to higher education has been limited. This population is generally composed of returning adult students whose work, geographical restriction, family obligation, and/or other confinements have made difficult and unlikely attendance in traditional courses on campus. It is intended for adults who have completed an associate degree, or at minimum, some college credit. The B.S.I.S. is not designed for those who have previously earned another four-year degree. The B.S.I.S. features the opportunity for students to integrate personal and professional growth through the exploration of perspectives, philosophies and experience in a variety of disciplines. Additionally, it requires two areas of concentration where the students may choose a minor or 12 hours of related coursework appropriate to their educational and professional goals. This degree may be obtained totally online or in a combination of traditional classroom and online courses.

#### 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 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.I.S. advisor recommends admission or denial to the Associate Dean, Division of Cross-Disciplinary Studies.
5. The Associate Dean accepts or denies admission.

**Bachelor of Science in Professional Studies (B.S.P.S.)**  
**A Regents Online Degree Program (RODP) at ETSU**

**P.O. Box 70659 Phone: 423/439-4223**  
**916 W. Maple St.**

The web-based Bachelor of Science in Professional Studies (B.S.P.S.) is part of the TBR Regents Online Degree Program (RODP) that began fall 2001. It is designed especially to meet the needs of those whose access to higher education has been limited. This population is generally composed of returning adult students whose work, geographical restriction, family obligation, and/or other confinements have made difficult and unlikely attendance in traditional courses on campus. It is intended for adults who have completed an associate degree, or at minimum, some college credit. The B.S.P.S. is not designed for those who have previously earned another four-year degree. Students will choose to complete one of two concentrations: information technology or organizational leadership. The information technology concentration provides knowledge of the management information systems field and prepares students to work in most information systems departments in business, industry or government. The organizational leadership concentration provides the students the opportunity to learn and develop skills in management and communication for work in various management areas. This degree may be obtained totally online or in a combination of traditional classroom and online courses.

**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 Associate Dean, Division of Cross-Disciplinary Studies.
5. The Associate Dean accepts or denies admission.

**Curriculum Requirements**

1. **General Education Core Requirements.** Students may choose regular ETSU general education core courses or RODP general education core courses that are currently developed.\*
 

ENGL 1010	Critical Reading & Expository Writing .....	3
ENGL 1020	Critical Thinking & Argumentation .....	3
MATH	.....	3-4
CSCI 1100	Using Information Technology .....	3
Science	.....	8
HIST 2010	The United States to 1877 .....	3
HIST 2020	The United States since 1877 .....	3
Heritage	.....	3
Arts and the Artistic Vision	.....	3
Identity, Ethics and Social Responsibility	.....	3
Institutions and Society	.....	6
Humanities Elective	.....	3
<b>General Education Core Total</b>	<b>.....</b>	<b>44-45</b>

**Additional graduation requirements:**

- |                        |       |   |
|------------------------|-------|---|
| PHED Fitness           | ..... | 1 |
| PHED Lifetime          | ..... | 1 |
| Proficiency intensives |       |   |

\* Current RODP general education core courses:  
 (All RODP courses are identified with R50 as the section number)

ENGL 1010	English Composition I (Writing) .....	3
ENGL 1020	English Composition II (Writing) .....	3
MATH 1530	Probability/Stats (Non-calc)(Using Math) .....	3
BIOL 1010	Introduction to Biology I (Science) .....	4
BIOL 1020	Introduction to Biology II (Science) .....	4
HIST 2010	Survey of U.S. History I (Heritage) .....	3
HIST 2020	Survey of U.S. History II (Heritage) .....	3
ENGL 2110	Survey of American Lit (Heritage) .....	3
ENGL 2410	Lit of Western World (Heritage) .....	3
ART 1030	Art Appreciation (Arts and Artistic Vision) .....	3
MUS 1030	Music Appreciation (Arts and Artistic Vision) ....	3
ECON 2030	Survey of Economics (Institutions and Society) .....	3
PSY 101	General Psychology .....	3
SOC 1010	Intro to Sociology .....	3

**NOTE FOR RODP MAJORS (B.S.I.S. and B.S.P.S.) ONLY:**

- a. BIT 1150 R50, Intro to Microcomputers, may be used to fulfill the CSCI 1100 requirement.
- b. HMSE 1100 R50, Concepts of Fitness and Wellness, may be used to fulfill the physical education requirement.

*If a student changes majors, these courses will not fulfill the regular graduation requirements.*

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 credits)**

- Principles of Administration
- Public Administration
- Principles of Management and Organization Behavior

**Area Two: Organizational Systems (3 credits)**

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

**Area Three: Teamwork and Organizational Relationships (3 credits)**

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

**Area Four: Statistical Methods (3 credits)**

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

**Area Five: Written Communications (3 credits)**

- 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 credits)**

- 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 credits)**

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 6 credits of Approved Coursework.....	6
Capstone .....	1-3

**OR**

**Organizational Leadership (24 credits)**

Management of Human Resources .....	3
Sociology of Occupations .....	3
Legal Environment .....	3
Interpersonal Communication .....	3
Psychology of Personality .....	3
Intership or 6 credits of 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.

## College of Education

P.O. Box 70685  
<http://coe.etsu.edu>

Phone: 423/439-7626

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 [elementary], secondary teaching, reading, instructional media, instructional technology, and science education); Human Development and Learning (child development, early childhood education, educational foundations, counseling, and special education); Physical Education, Exercise 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.

A child study center is operated as a part of the early childhood education program. In addition, a campus school, grades K-12, is operated in association with the 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, 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 College of Education personnel for secondary education students who identify themselves to the 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.

Students holding the bachelor's degree who want to become eligible for initial classroom teacher licensure in special education 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 College of Education requires the completion of an appropriate master's degree for initial certification of individuals who hold a non-teaching baccalaureate degree. For further information consult the professional advisor of the College of Education, 321 Warf-Pickel Hall.

Responsibilities of the 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.

### 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 Applied Human Sciences), the human development and learning (career) concentration in the human development and learning major, and the special education (non-teaching) major. The Department of Physical Education, Exercise and Sports Science 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 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 semester 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 30 semester hrs. of General Education courses including the following: Writing (6 hrs.); Sciences (8 hrs.); Using Mathematics (3 hrs.); and 13 additional hours chosen from Using Information Technology; Heritage; Institutions and Society; Arts and Artistic Vision; Identity, Ethics and Social Responsibility; and Humanities.
3. Achieve a G.P.A. 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 A.C.T. 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 CBT), for Math (173, PPST or CBT), and for Writing (173, PPST or CBT)).
5. Submit a portfolio as initiated in EDFN 2100 Orientation to the Profession of Education.
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<sup>1</sup>
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 AHSC 2120 Foundations for Early Childhood with a grade of "C" or better.)

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, physical education (K-12 licensure), or special education.

<sup>1</sup>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 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  
610 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:

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:

### Licensure Fields

Elementary Education K-8  
English 7-12  
Foreign Language 7-12 (French, German, Spanish)  
Mathematics 7-12  
Psychology 9-12  
Science 7-12 (Biology, Chemistry, Physics, Earth Science)  
Social Studies 7-12 (History, Government/Political Science, Geography, Economics)  
Sociology 9-12  
Speech Communication 7-12  
Vocational Consumer Homemaking 5-12  
Technology Education 5-12  
Visual Arts K-12  
Music Education K-12 (Vocal, Instrumental)  
Theatre K-12  
Special Education  
    Modified K-12  
    Comprehensive K-12  
    Preschool/Early Childhood PreK-1  
    Speech/Language Pathology PreK-12 (master's program, only)  
Health K-12  
Physical Education K-12  
Early Childhood Education PreK-4  
School Social Worker

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)

P.O. Box 70684

Phone: 423/439-7587

Chair: Dr. Karilee Freeberg

Phone: 423/ 439-7595  
E-mail: [freeber@etsu.edu](mailto:freeber@etsu.edu)

The Department of Curriculum and Instruction offers approved teacher education programs that lead to a bachelor of arts or a bachelor of science degree and licensure in the state of Tennessee. A program is offered in interdisciplinary studies (elementary education K-8), as well as courses leading to 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 (ISED/Elementary Education K-8)

Teacher education students admitted to Interdisciplinary Studies prior to fall 2000 complete the program of study for the major and licensure under the catalog of entry. Specific general education core courses are mandated for all students who wish to complete the interdisciplinary studies program.

#### I. General Education Requirements ..... (44 Credits)

##### A. WRITING ..... (6 credits)

ENGL 1010 Critical Reading & Expository Writing ..... 3  
ENGL 1020 Critical Thinking & Argumentation ..... 3

##### B. USING MATHEMATICS ..... (3 credits)

MATH 1530 Probability & Statistics ..... 3  
(Non-Calculus)

##### C. USING INFORMATION TECHNOLOGY ..... (3 credits)

CSCI 1100 Using Information Technology ..... 3  
or passing grade on challenge examination

##### D. SCIENCE ..... (8 credits)

BIOL 1020-1021 Biology for Non-Majors & Lab ..... 4  
CHEM 1030 Intro. to Chemistry Survey ..... 4

##### E. HERITAGE ..... (9 credits)

HIST 2010 The United States to 1877 ..... 3  
HIST 2020 The United States 1877-Present ..... 3  
ENGL 2330 World Literature\* ..... 3

##### F. ARTS AND THE ARTISTIC VISION ..... (3 credits)

Select one of the following:  
ARTA 2020 Art History Survey ..... 3  
MUSC 1030 Introduction to Music ..... 3  
PEXS 3500 Dance As a Human Experience\* ..... 3

##### G. IDENTITY, ETHICS & SOCIAL RESPONSIBILITY.. (3 credits)

Select one of the following:  
SOAA 2020 Social Problems and Human Values ..... 3  
PHIL 2020 Values and Society

##### H. INSTITUTIONS AND SOCIETY ..... (6 credits)

PSCI 1120 Intro. to Amer. Gov. .... 3

And one of the following:

ECON 1050 Economics & Society ..... 3  
GEOG 1012 Intro. to Cultural Geog \* ..... 3  
PSYC 1310 Intro. to Psychology ..... 3  
SOAA 1240 Intro. to Cultural Anthropology \* ..... 3

**I. HUMANITIES ELECTIVE .....(3 credits)**

Select one of the following:

PHIL 2640	Science and the Modern World	3
ENTC 3020	Technology and Society	3
ENGL 3280	Mythology	3
PHIL 2210	Introduction to the Study of Religion	3

\*Students must take three of these courses to fulfill requirements for multicultural content and global perspectives.

**NOTE** *In order for students in the Interdisciplinary Studies program to have experience in cultural diversity and global perspectives, they must select as part of the general education requirement:*

Three courses from the following:

ENGL 2330	World Literature	3
HIST 1110	World Hist. & Civ. to 1500	3
HIST 1120	World Hist. & Civ. Since 1500	3
HUMT 2320	Introduction to Humanities II	3
PEXS 3500	Dance as Human Experience	3
WMST 2010	Introduction to Women's Studies	3
GEOG 1012	Introduction to Cultural Geography	3
SOAA 1240	Cultural Anthropology	3

One course from the following:

PHIL 1030	Self and World	3
PHIL 2020	Values and Society	3
PHIL 2040	Philosophy as Conversation	3
PHIL 2210	Intro. to the Study of Religion	3

**II. PROFESSIONAL EDUCATION**

**CURRICULUM .....(66 credits)**

EDFN 2100	Orientation to the Prof. of Educ.	1
EDFN 2300	Foundations for Teaching	3
EDFN 3301	Issues in Education	3
EDFN 4955	Research, Eval. & Assessment K-8	3
HDAL 3310	Educational Psychology	3
HDAL 4517	Family, Community, School K-8	3
SPED 2300	Except. Lrns. Sch./Comm.	3
CUAI 2440	Computer Applications in Education	3
MEDA 3570	Educational Technology	3
READ 3100	Reading Instruction in Elem. Sch.	3
CUAI 4210	Integrated Teaching: Language Arts	3
CUAI 4220	Integrated Teaching: Social Studies	3
CUAI 4230	Integrated Field Experience I	1
CUAI 4310	Integrated Teaching: Mathematics	3
SCED 4320	Integrated Teaching: Science	3
CUAI 4330	Integrated Field Experience II	1
CUAI 4407	Integrating the Creative Arts in K-8	3
PEXS 3000	Physical Education for Elementary Sch	3
CUAI 4707	Classroom Management/Discipline	3
CUAI 4580	Student Teaching	12
EDFN 4581	Seminar in Education	3

Additional Graduation Requirements

PHED 2XXX	Lifetime Activity	1
PHED 1130	Fitness for Life	2

**III. Interdisciplinary Studies Major .....(28-31 credits)**

**Mathematics .....(6 credits)**

MATH 1410	Number Concepts & Algebraic Struc.	3
MATH 1420	Logic & Problem Solving	3

**Science** (7 credits; General Education Science plus courses from the following to total 15 credits)

ASTR 1010	Astronomy I	4
or		
ASTR 1020	Astronomy	4
and		
SCED 4020	Wildlife Conservation	3

**Social Studies .....(6 credits)**

GEOG 1013	Intro to World Regional Geography	3
ECON 1050	Economics & Society	3

**Language Arts .....(6 credits)**

READ 4147	Basic Storytelling and	3
MEDA 4627	Children's Material	3
or		
ENGL 4017	Children's Literature	3

**Psychology .....(3 credits)**

HDAL 2325	Child & Adolescent Development	3
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**Fine Arts .....(3 credits)**

Choose one which has NOT been taken in General Education Core

PEXS 3500	Dance as Human Experience	3
ARTA 2020	Art History Survey	3
MUSC 1030	Introduction to Music	3

Interdisciplinary Studies Majors interested in 5-8 specialization should contact the professional education advisor in room 321, Warf-Pickel Hall in the College of Education.

**Please read carefully the following information:**

**1. Interdisciplinary Studies Majors are required to complete the Initial Level Portfolio for presentation to the Department of Curriculum and Instruction Admission Board, the Evaluative Level Portfolio presentation at a designated benchmark, 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.

**Interdisciplinary Studies  
Four-Year Curriculum Model  
Suggested Semester Schedule**

**Freshman - Fall Semester**

ENGL 1010	Crit. Read/Exp. Writing	3
BIOL 1020-21	Biology for Non-Majors Lec & Lab II	4
CSCI 1100	Using Information Technology	3
MATH 1530	Prob & Stats-Non-Calc	3
HIST 2010	The US to 1877	3
EDFN 2100	Orient. to Prof. of Educ.	1
<b>TOTAL</b>		<b>17</b>

**Freshman - Spring Semester**

ENGL 1020	Crit. Thinking/Arg.	3
CHEM 1030	Intro. to Chem. Survey	4
HIST 2020	The US Since 1877	3
Institutions and Society		3
EDFN 2300	Found. for Teaching	3
<b>TOTAL</b>		<b>16</b>

**Sophomore - Fall Semester**

Lifetime Activity .....	1
PHED 1130 Fitness for Life .....	2
ENGL 2330 World Literature .....	3
Identity, Ethics, & Social Respons. ....	3
HDAL 2325 Child/Adol. Dev. Educ. ....	3
MATH 1410 Numb Conc/Alge .....	3
ECON 1050 Econ. & Society .....	3
<b>TOTAL</b> .....	<b>18</b>

**Sophomore - Spring Semester**

Arts and Artistic Vision .....	3
PSCI 1120 Intro. to Amer. Gov. ....	3
Humanities .....	3
PEXS 3000 P.E. for Elem. Schools .....	3
EDFN 3301 Issues in Education .....	3
MATH 1420 Logic/Problems/Geom. ....	3
<b>TOTAL</b> .....	<b>18</b>

**Junior - Fall Semester**

Fine Arts in Major .....	3
HDAL 3310 Educational Psychology .....	3
SPED 2300 Exceptional Learners .....	3
GEOG 1013 Intro.-World Reg. Geog. ....	3
ASTR 1010 Astronomy I OR .....	4
ASTR 1020 Astronomy II .....	3
<b>TOTAL</b> .....	<b>16</b>

**Junior - Spring Semester**

MEDA 3570 Educational Technology .....	3
READ 3100 Read Instr.- Elem.Sch. ....	3
MEDA 4627 Children's Materials OR .....	3
ENGL 4017 Children's Literature .....	3
READ 4147 Basic Storytelling .....	3
CUAI 2440 Comp. Applic. in Educ. ....	3
<b>TOTAL</b> .....	<b>15</b>

**Senior - Fall Semester**

CUAI 4210 Integ. Tch. - Lang. Arts .....	3
CUAI 4220 Integ. Tch. - Soc. Stu. ....	3
CUAI 4230 Integ. Field Experience .....	1
CUAI 4407 Integ. Creative Arts K-8 .....	3
EDFN 4955 Res Eval & Ind Assess Tech .....	3
SCED 4020 Wildlife Conservation .....	3
<b>TOTAL</b> .....	<b>16</b>

**Senior - Spring Semester**

CUAI 4310 Integ. Tch. - Math .....	3
SCED 4320 Integ. Tch. - Science .....	3
CUAI 4330 Integ. Field Experience .....	1
CUAI 4707 Classroom Mgmt & Disc .....	3
HDAL 4517 Family/Comm/Sch K-8 .....	3
<b>TOTAL</b> .....	<b>13</b>

**Fall of Fifth Year**

CUAI 4580 Student Teaching .....	12
EDFN 4581 Seminar in Education .....	3
<b>TOTAL</b> .....	<b>15</b>

**Secondary Education K-12 Teacher Education**

The requirements for teacher education programs at the secondary and K-12 levels are described below. Specific major field requirements may be found in the departmental sections of the catalog. Students should also consult the Professional Advisor in room 321, Warf-Pickel Hall or the Secondary Education program advisors in the Department of Curriculum and Instruction.

**General Education Requirements for Secondary and K-12 Teacher Education Students**

The student should examine proposed major or second field department programs to determine the special requirements in the following general areas:

**Proficiencies**

Writing (W) .....	6
Using Mathematics (UM) .....	3-4
Using Information Technology (UIT) .....	0-2

**Areas of Familiarity**

Science (S) .....	8
Heritage (H) .....	9
Arts and the Artistic Vision (A) .....	3
Identity, Ethics, and Social Responsibility (E) .....	3
Institutions and Society (I) .....	6
Humanities Elective .....	3

**Total in Core ..... 41-44**

In order to provide experience in cultural diversity and global perspectives, secondary and K-12 teacher education students must select as part of the general education requirement:

Three courses from the following:

ENGL 2330 World Literature .....	(3)
HUMT 2320 Introduction to Humanities II .....	(3)
PEXS 3500 Dance as Human Experience .....	(3)
WMST 2010 Introduction to Women's Studies .....	(3)
GEOG 1012 Introduction to Cultural Geography .....	(3)
SOAA 1240 Cultural Anthropology .....	(3)
HIST 1110 World History & Civ. to 1500 .....	(3)
HIST 1120 World History & Civ. Since 1500 .....	(3)

One course from the following:

PHIL 1030 Self and World .....	(3)
PHIL 2020 Values and Society .....	(3)
PHIL 2210 Intro. to the Study of Religion .....	(3)
PHIL 2040 Philosophy as Conversation .....	

**Please read carefully the following information:**

- Students in Secondary Education K-12 teacher education are required to complete the Initial Level Portfolio for presentation at the Department of Curriculum and Instruction Admission Board, the Evaluative Level Portfolio at a designated benchmark, and the Student Teaching Portfolio for presentation to a panel of peers and faculty.

**Professional Education Requirements for Secondary and K-12 Teacher Education Students**

EDFN 2100 Orientation to the Profession of Educ. ....	1
EDFN 2300 Foundations for Teaching .....	3
EDFN 3301 Issues in Education .....	3
HDAL 2310 Developmental Psychology (K-12) or	
HDAL 2330 Adolescent Psychology (Secondary) .....	3
HDAL 3310 Educational Psychology .....	3
MEDA 3570 Educational Technology .....	3
SPED 2300 Exceptional Learners in Schools	
& Communities .....	3
READ 4437 Reading in the Middle Secondary School .....	3
CUAI 4417 Secondary School Curriculum & Methodology ....	3
CUAI 4427 Secondary School Curriculum & Methodology	
Field Experience .....	1
XXXX 4417 Methods in Content Area .....	3
EDFN 4581 Seminar in Education .....	3
CUAI 4580 Student Teaching .....	12
<b>TOTAL</b> .....	<b>44</b>

**Please read carefully the following information:**

- Students are required to complete the Initial Level Portfolio for presentation to the Department of Curriculum and Instruction Admission Board, the Evaluative Level Portfolio presentation at a designated benchmark, 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.**

### 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 (EDFN, HDAL, SPED)

P.O. Box: 70548

Phone: 423/439-7688

Chair: Dr. Patricia Robertson

Phone: 423/ 439-7688

E-mail: robertpe@etsu.edu

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, human development and learning, and special education. The department offers individuals holding professional teaching certification an opportunity to add an endorsement in special education. 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.

### Special Education (SPED)

P.O. Box 70548

Phone: 423/439-7688

Program Coordinator: Dr. Lori Marks

Phone: 423/439-7685

E-mail: [marks@etsu.edu](mailto: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.

The non-teaching major and minor in special education assist persons preparing to work in ancillary positions, or who desire to learn more about special education programs/practice, but who are not planning to become classroom teachers. They do not lead to teacher licensure.

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 College of Education. Students majoring in special education, who desire admission to teacher education, must also meet the following conditions:

1. Successful completion of 30 semester hours of general education core, which includes completion of all English, Math, and Science coursework.

2. Grade point average of at least 2.5 in the above coursework.
3. 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 2.5 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 2.5 in all coursework.
4. Grades of "C-" or better in all special education coursework.

**GRADUATION REQUIREMENTS**

**General Education Requirements**

Refer to the ETSU general education core of 41-44 semester hours as outlined previously in this catalog. When meeting the General Education Requirements, students must take three of the following eight courses:

ENGL	2330	World Literature
PEXS	3500	Dance as Human Experience
WMST	2010	Introduction to Women's Studies
GEOG	1012	Introduction to Cultural Geography
SOAA	1240	Introduction to Cultural Anthropology
HUMT	2320	Intro. to the Humanities II: 1600 to present
HIST	1110	World History to 1500
HIST	1120	World History Since 1500

Additionally, when meeting the General Education Requirements, students must take one of the following courses:

PHIL	1030	Self and World
PHIL	2020	Values and Society
PHIL	2040	Philosophy as Conversation
PHIL	2210	Introduction to the Study of Religion

**Professional Education Requirements**

EDFN	2100	Orientation to Profession of Teaching	1
EDFN	2300	Foundations for Teaching	3
EDFN	3301	Issues in Education	3
READ	3100	Foundations of Reading OR	3
HDAL	4150	Literacy in Young Children OR	3
READ	4437	Reading for Middle & Secondary Schools	3
HDAL	2310	Developmental Life-Span Psy.	3
HDAL	3310	Educational Psychology	3
SPED	2300	Intro to Special Education	3
MEDA	3570	Educational Technology	3
EDFN	4581	Seminar in Education	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**

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**

SPED	3365	Integrating Functional Skills into the Curriculum	3
CUAI	3430	Methods in Teaching Elementary Mathematics	3
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

**Nonteaching Minor**

SPED 2300, 3350, 4477, plus 9 hours of approved electives

**Nonteaching Major**

HDAL 3310,  
 SPED 2300, 3322, 3300, 3445, 3350, 4477, 4487,  
 PEXS 3032,  
 plus 6 hours of approved electives (one of which represents an upper division writing-intensive course in addition to EDFN 3301).

**Suggested Course Sequence for  
All B.S. Majors in Special Education  
Suggested Semester Schedule**

**Freshman - Fall Semester**

MATH	.....	3
ENGL 1010	Crit Read/Expos Writing .....	3
HIST 2010	U S History to 1877 .....	3
EDFN 2100	Orientation to Teaching .....	1
Institutions and Society	.....	3
Identity, Ethics, & Social Respons.	.....	3
<b>TOTAL</b>	.....	<b>16</b>

**Freshman - Spring Semester**

ENGL 1020	Crit. Think/Argument .....	3
HIST 2020	U S History Since 1877 .....	3
Science	.....	4
CSCI 1100	Using Information Technology .....	3
Arts & Artistic Vision	.....	3
<b>TOTAL</b>	.....	<b>16</b>

**Sophomore - Fall Semester**

EDFN 2300	Found. for Teaching .....	3
Science	.....	4
PUBH 2030	First Aid Emergency Care .....	3
Humanities Elective	.....	3
HDAL 2310	Devel. Lifespan Psy. ....	3
<b>TOTAL</b>	.....	<b>16</b>

**APPLY TO TEACHER EDUCATION BEGINNING OF SPRING SEMESTER**

**Sophomore - Spring Semester**

HDAL 3310	Educational Psy. ....	3
Institutions and Society	.....	3
Heritage	.....	3
SPED 2300	Exceptional Learners .....	3
READ 3100	Found. of Reading OR .....	3
HDAL 4150	Literacy in Young Child OR	3
READ 4437	Reading for Sec/MS .....	1
Physical Education	.....	1
<b>TOTAL</b>	.....	<b>16</b>

**Junior - Fall Semester**

SPED 3300	Instructional Method. ....	3
EDFN 3301	Issues in Education .....	3
SPED 3350	Medical Aspects SPED .....	3
SPED 3365	Funct. Skill Instruction .....	3
MEDA 3570	Educational Technology .....	3
Physical Education	.....	1
<b>TOTAL</b>	.....	<b>16</b>

**Junior - Spring Semester**

SPED 3400	Behavior Management .....	3
SPED 3410	Preclinical in Behavior .....	1
SPED 4497	Curriculum in SPED .....	3
SPED 3445	Assistive Technology .....	3
SPED 4477	Special Educ. Assess. ....	3
SPED 4487	Collaboration .....	3
<b>TOTAL</b>	.....	<b>16</b>

**Senior - Fall Semester**

SPED 4700	Adaptations & Modif. ....	3
SPED 4710	Preclinical .....	2
SPED 4725	Mgmt. of Severe Behav. ....	3
SPED 4757	Curr.- Based Assess. ....	3
SPED 4750	Transitional Services .....	3
CUAI 3430	Meth. Tch Elem Math .....	3
<b>TOTAL</b>	.....	<b>17</b>

**Senior - Spring Semester**

SPED 4850	Student Teaching SPED .....	12
EDFN 4581	Seminar in Education .....	3
<b>TOTAL</b>	.....	<b>15</b>

**Early Childhood Development**

**Program Coordinator: Dr. Laurelle Phillips**

Phone: 423/ 439-7903  
E-mail: phillipl@etsu.edu

The Department of Human Development and Learning in the College of Education and the Department of Applied Human Sciences in the College of Applied Science 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 (0-8), their families, and environmental factors influencing their development. This major leads to licensure in PreK-3 in the state of Tennessee. The current program is being revised to meet new licensure standards for PreK-4 that are effective September 1, 2002. Please contact program advisors for details.

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**

The Early Childhood Development degree is in the final approval stage for the 2002-2003 academic year when the catalog went to press. There are substantive proposed revisions for PreK-4 licensure in the State of Tennessee effective September 1, 2002. Contact the program coordinator for program information.

**MAJOR (ECDV)**

**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.

**General Education Requirements**

Refer to the ETSU general education core of 41-44 semester hours as outlined earlier of this catalog. In order to provide experience in cultural diversity and global perspectives, students must take three of the following eight courses:

- ENGL 2330 World Literature
- GEOG 1012 Introduction to Cultural Geography
- HIST 1110 World History & Civilization to 1500
- HIST 1120 World History & Civilization since 1500
- HUMT 2320 Intro. to the Humanities II:1600 to present
- PEXS 3500 Dance as Human Experience
- SOAA 1240 Introduction to Cultural Anthropology
- WMST 2010 Introduction to Women's Studies

Additionally, students must take one of the following four courses:

- PHIL 1030 Self and World
- PHIL 2020 Values and Self
- PHIL 2040 Philosophy as Conversation
- PHIL 2210 Introduction to the Study of Religion

**Professional Education Requirements:**

EDFN 2100	Orientation to Professional Education	1
AHSC 2120	Foundations of Early Childhood	3
EDFN 3301	Issues in Education	3
HDAL 2310	Developmental Life-Span Psy.	3
HDAL 3310	Educational Psychology	3
SPED 3320	Except. Lnrs. in School & Community	3
AHSC 4167	Student Teaching: PreK-K	6
HDAL 4617	Student Teaching: Primary	6
HDAL 4957	Seminar in Student Teaching	3

**Additional Program Requirements:**

PUBH 2030	First Aid and Emergency Care	3
PEXS 3032	Psychomotor Development in Young Children	3
READ 4147	Basic Storytelling	3
SCED 4020	Wildlife Conservation	3
CUAI 3430	Elementary Methods of Mathematics	3

**Early Childhood Development**

AHSC 1110	Family Development	3
AHSC 2110	Infant/Toddler/Child Development	3
AHSC 3110	Parent/Child/School Relations	3
AHSC 3120	Computers & Technology in Early Childhood	1
AHSC 3140	Guiding Young Children	3
SPED 3322	Early Intervention Strategies for the Exceptional Child	3
HDAL 3130	Evaluation of Young Children	3
HDAL 3155	Creative Development in Young Child	3
HDAL 4150	Literacy in Young Children	3
HDAL 3117	Learning Environments in Early Childhood	3
HDAL 4217	Program Planning for Young Children	3

**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.

**MAJOR  
Early Childhood Development**

This is an interdisciplinary degree that combines the early childhood offerings in Applied Human Science 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.

**Major in Early Childhood Development**

AHSC 1110	Family Development	3
AHSC 2110	Infant/Toddler/Child Development	3
AHSC 2120	Foundations of Early Childhood	3
AHSC 3110	Parent/Child/School Relations	3
AHSC 3120	Computers & Technology in Early Childhood	1
AHSC 3140	Guiding Young Children	3
SPED 3322	Early Intervention Strategies for the Exceptional Child	3
HDAL 3130	Evaluation of Young Children	3
HDAL 3155	Creative Development in Young Child	3
HDAL 4150	Literacy in Young Children	3
HDAL 3117	Learning Environments in Early Childhood	3
HDAL 4217	Program Planning for Young Children	3

**Total Hours** ..... 34

**Practicum/Field Experiences**

AHSC 4957	Special Topics in Applied Human Sciences	3
HDAL 4957	Special Topics in Human Development and Learning	3

**Total Hours** ..... 6

**Early Childhood Development (PreK-3)  
Suggested Program of Study**

**Suggested Semester Schedule**

**Freshman - Fall Semester**

ENGL 1010	Critical Reading/Expository Writing	3
	Institutions and Society	3
CSCI 1100	Using Information Technology	3
MATH		3
Science		4
PHED - Fitness		1
<b>TOTAL</b>		<b>17</b>

**Freshman - Spring Semester**

ENGL 1020	Critical Thinking/Argumentation	3
	Identity, Ethics, & Social Responsibility	3
	Arts & Artistic Vision	3
	Institutions and Society	3
EDFN 2100	Orientation to Profession of Education	1
Science		4
<b>TOTAL</b>		<b>17</b>

**Sophomore - Fall Semester**

AHSC 2120	Foundations - Early Childhood	3
AHSC 1110	Family Development	3
AHSC 2110	Infant/Toddler/Child (WI)	3
HDAL 2310	Developmental Psychology	3
HIST 2010	U S History to 1877	3
CSCI 1101	Introduction to Spreadsheets	1
PHED - Lifetime		1
<b>TOTAL</b>		<b>17</b>

**Sophomore - Spring Semester**

HIST 2020	U S History Since 1877	3
	Humanities	3
EDFN 3301	Issues in Education	3
HDAL 3310	Educational Psychology	3
	Heritage	3
AHSC 3140	Guiding Young Children	3
<b>TOTAL</b>		<b>18</b>

**Junior - Fall Semester**

HDAL 3155	Creative Development	3
HDAL 3117	Learning Environments	3
SPED 3320	Exceptional Learners	3
AHSC 3110	Parent/Child/School	3
	Institutions and Society	3
AHSC 3120	Comp & Tech in Early Childhood	1
<b>TOTAL</b>		<b>16</b>

**Junior - Spring Semester**

CUAI 3430	Elementary Methods in Math	3
PUBH 2030	First Aid/Emergency Care	3
SPED 3322	Early Intervention	3
PEXS 3032	Psychomotor Development	3
HDAL 3130	Evaluation of Young	3
<b>TOTAL</b>		<b>15</b>

**Senior - Fall Semester**

HDAL 4150	Literacy in Young Child	3
HDAL 4217	Program Planning - Young Child	3
READ 4147	Basic Storytelling	3
SCED 4020	Wildlife Conservation	3
	Free Elective	2
<b>TOTAL</b>		<b>14</b>

**Senior - Spring Semester**

AHSC 4167	Student Teaching PreK-K	6
HDAL 4617	Student Teaching Primary	6
HDAL 4957	Seminar - Student Teaching PreK-3	3
<b>TOTAL</b>		<b>15</b>

**TOTAL PROGRAM HOURS** ..... 129

**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:



**Applied Human Science \*  
Social Work  
Special Education  
Psychology  
Art**

**Physical Education  
Public Health  
Music  
Professional Studies  
Business**

\* Students who minor in Applied Human Sciences cannot duplicate courses in major and minor.

**Minor in Early Childhood Development**

AHSC 2110	Infant/Toddler/Child Development .....	3
AHSC 2120	Foundations of Early Childhood .....	3
HDAL 2320	Child Psychology .....	3
AHSC 3110	Parent/Child Relations .....	3
HDAL 4217	Program Planning <b>or</b>	
AHSC 1110	Family Development .....	3
HDAL 3155	Creative Development of Young Child <b>or</b>	
AHSC 4217	Divorce: Causes and Consequences .....	3
<b>Total Hours .....</b>		<b>18</b>

**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 Development and Learning  
(HDAL)**

**Program Coordinator: Dr. Andi Clements**

Phone: 423/ 439-7682  
E-mail: clements@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 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 128 hours) which leads to the bachelor of science in human development and learning (HDLC). Students seeking teaching licensure may complete the bachelor of science program that includes a minor and electives (at least 128 hours) and subsequently obtain licensure by completing a 15-month (approximately 51-54 hours) master of arts in teaching program.

**Admission**

1. Students are not formally admitted to the program until they have completed 30 semester 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

- b. 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 2.5 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 2.5. 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. The following courses are required for a major in human development and learning. These courses (30 semester hours) must be taken by students pursuing any of the program options or by a student enrolled in any program who majors in human development and learning. As indicated below, two lower division prerequisites are required for entrance into certain of the major courses. They are: Child Psychology-HDAL 2320 or Developmental Life Span Psychology-HDAL 2310, and Elementary Statistics-PSYC 2810 or Probability and Statistics(Non-Calculus) -MATH 1530.

PSYC 1310	Introduction to Psychology .....	3
PHIL 2030	Practical Reasoning .....	3
AHSC 3110	Parent/Child/School Relations .....	3
PSYC 3010	Psychology of Learning (prerequisites: PSYC 1310 and HDAL 2310 or 2320) .....	3
PEXS 3032	Psychomotor Dev. of Children .....	3
HDAL 4217	Program Planning in Early Child .....	3
HDAL 4010	Managing Child Behavior .....	3
HDAL 4011	Developmental Psychology II (prerequisites: PSYC 1310 and HDAL 2310 or 2320) .....	3
HDAL 4666	Cultural Influences in Development (prerequisites: PSYC 1310 and HDAL 2310 or 2320) .....	3
HDAL 4950	Research in Learning and Dev. (prerequisite: MATH 1530 or PSYC 2810) .....	3

The above listed courses and their lower division prerequisite (Child Psychology-HDAL 2320 or Developmental Life Span Psychology-HDAL 2310) 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 128 semester 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 2.5 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;

**Human Development and Learning  
Suggested Semester Schedule**

**Freshman - Fall Semester**

ENGL 1010	Crit Read/Expos Writ	3
Institutions and Society - Div.		3
Science		4
CSCI 1100	Using Info Technology	3
PSYC 1310	Intro to Psychology	3
PHED Fitness Activity		1
<b>TOTAL</b>		<b>17</b>

**Freshman - Spring Semester**

ENGL 1020	Crit Thinking and Argumentation	3
MATH 1080	Probability and Statistics	3
Arts and the Artistic Vision		3
Science		4
Institutions and Society		3
<b>TOTAL</b>		<b>16</b>

**Sophomore - Fall Semester**

HIST 2010	U.S. History to 1877	3
HDAL 2310	Lifespan Devel Psych	3
Heritage (English Lit)		3
Minor		3
Elective		3
CSCI 1101	Intro to Spreadsheets (Technology Intensive)	1
PHED Lifetime Activity		1
<b>TOTAL</b>		<b>17</b>

**Sophomore - Spring Semester**

PHIL 2030	Practical Reasoning	3
HIST 2020	U.S. History Since 1877	3
Humanities elective		3
Identity, Ethics and Social Responsibility		3
Elective		3
<b>TOTAL</b>		<b>15</b>

**Junior - Fall Semester**

AHSC 3110	Parent/Child/School Rel.	3
Institutions and Society		3
Minor		3
Minor		3
Elective		3
<b>TOTAL</b>		<b>15</b>

**Junior - Spring Semester**

PEXS 3032	Psychomotor Development	3
PSYC 3010	Psych of Learning	3
Minor		3
Minor or Elective		3
Elective		3
<b>TOTAL</b>		<b>15</b>

**Senior - Fall Semester**

HDAL 4010	Managing Child Behavior	3
HDAL 4950	Research in HDAL	3
HDAL 4217	Program Planning (or subst)	3
Minor		3
Minor		3
Elective		2
<b>TOTAL</b>		<b>17</b>

**Senior - Spring Semester**

HDAL 4011	Developmental Psych II	3
HDAL 4666	Cultural Influences	3
Guided Research Independent Study (elective)		3
Minor		3
Elective		3
Elective		1
<b>TOTAL</b>		<b>16</b>

**Human Development and Learning Minor  
(Pending TBR approval)**

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.

**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 2325	Child and Adolescent Development for Educators	3
HDAL 2330	Adolescent Psychology	3
HDAL 3310	Educational Psychology	3
HDAL 4010	Managing Child Behavior	3
HDAL 4666	Cultural Influences in Development	3
HDAL 4955	Research, Evaluation, and Individual Assessment Techniques	3

**Total credit hours for Minor** ..... 18

A grade of "C-" or above must be earned in all minor courses.

**Department of Physical Education, Exercise and Sport Sciences  
(PEXS/PHED)**

**P.O. Box 70654** **Phone: 423/439-4362**

**Chair: Dr. Tom Coates**

Phone: 423/ 439-4362

E-mail: [coates@etsu.edu](mailto:coates@etsu.edu)

The baccalaureate degree program in the Department of Physical Education, Exercise, and Sport Sciences has three areas of concentration: K-12, teacher education, exercise science, and sport management and leisure services. The teacher licensure program prepares students as professional physical educators in grades K-12. Please contact Dr. Diana Mozen (423/439-6157) for specific information about this program. The exercise science program prepares students to work in fitness management, wellness programs, and exercise prescription/rehabilitation. The sport management/leisure services concentration prepares students to work as leaders in the sport and leisure industry. The department is currently proposing a new B.S. major in sport and leisure management that should be in place by fall 2002. Please contact Dr. Tom Coates (423/439-5261) for further information. In conjunction with these primary areas of study,

there are opportunities for students to prepare for careers in coaching, recreation and related sport sciences.

The leisure services 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 athletic 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.

A variety of basic instruction courses aids students in developing and maintaining an active, healthy, and rewarding lifestyle.

**Degree: B.S. in Physical Education**

**Concentrations: K-12 Teaching  
Exercise Sciences  
Sport Management and Leisure Services**

**GENERAL EDUCATION REQUIREMENTS FOR ALL PHYSICAL EDUCATION CONCENTRATIONS (44-45 Credit Hours)**

ENGL 1010	Critical Reading & Exp. Writing .....	3
ENGL 1020	Critical Thinking & Argumentation .....	3
MATH 1530, 1840, OR 1910	.....	3-4
CSCI 1100	Using Information Technology or Challenge Exam .....	3
HIST 2010	The United States to 1877 .....	3
HIST 2020	The United States 1877-Present .....	3
Science I*	.....	4
Science II*	.....	4
PEXS 3500	Dance as Human Experience .....	3
PHIL 1030, PHIL 2020, PHIL 2210, or PHIL 2040	.....	3
Heritage (Literature)	.....	3
Institutions & Society	.....	6
Humanities Elective	.....	3

\*See Concentrations for Specific Science Courses

**K-12 TEACHING CONCENTRATION**

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 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 3700, 3710, 4700, and 4710, EDFN 3301, MEDA 3570, CUA1 4580, and EDFN 4581.

**General Education Core** ..... (44-45 credits)

Science Requirement for K-12:

HSCI 2010/11	Anatomy and Physiology I .....	4
and		
HSCI 2020/21	Anatomy and Physiology II or	
CHEM 1030	Introduction to Chemistry Survey or	
PHYS 1030	Introduction to Physics Survey or	
BIOL 1010/1011 or		
1020/1021	Biology for Non-Majors .....	4

K-12 Majors must select two courses during their general education from the following:

ENGL 2330	World Literature .....	3
GEOG 1012	Introduction to Cultural Geography .....	3
HIST 1110	World Hist. & Civ. to 1500 .....	3
HIST 1120	World Hist. & Civ. since 1500 .....	3
HJMT 2320	Introduction to Humanities II .....	3
SOAA 1240	Introduction to Cultural Anthropology ..	3
WMST 2010	Introduction to Women's Studies .....	3

**Major Core** ..... (54 credits)

PHED 1130	Fitness for Life .....	2
PEXS 2701	Aquatics .....	1
PEXS 2900	Orientation to PEXS .....	1
PEXS 2955	Care & Prevention of Ath. Injuries .....	3
PEXS 3005	Instructional Delivery Techniques .....	3
PEXS 3032	Motor Development .....	3
PEXS 3080	Theory & Practice of Aerobic Cond. ....	3
PEXS 3085	Teaching Rhythms & Dance .....	3
PEXS 3095	Teaching Sports Skills .....	3
PEXS 3510	Foundations of PE .....	3
PEXS 3700	PE Elementary I—Primary .....	4
PEXS 3710	PE Elementary II—Intermediate .....	4
PEXS 3850	Scientific Basis of Human Performance .....	4
PEXS 4060	Measurement & Evaluation .....	3
SALM 4210	Legal Issues .....	3
SALM 4215	Psychology of Sport & Leisure .....	3
PEXS 4700	PE Secondary I—Lifetime Wellness .....	4
PEXS 4710	PE Secondary II—Middle School .....	4

**Professional Education Core** ..... (34 Credits)

EDFN 2100	Orientation to Education .....	1
HDAL 2310	Developmental Psychology .....	3
EDFN 2300	Foundation of Education .....	3
EDFN 3301	Issues in Education .....	3
HDAL 3310	Educational Psychology .....	3
MEDA 3570	Educational Technology .....	3
PEXS 4250	Atypical Populations .....	3
CUAI 4580	Student Teaching .....	12
EDFN 4581	Senior Seminar .....	3
<b>Total:</b>	.....	<b>130-132</b>

**Suggested Four-year Sequence for K-12 Teacher Education Concentration**

**Suggested Semester Schedule**

**Freshman - Fall Semester**

HSCI 2010/2011	Anatomy & Physiology I - Lecture & Lab .....	4
ENGL 1010	Crit Read/Expos Writ .....	3
MATH 1530	Prob & Stats-Non-Calc .....	3
EDFN 2100	Orient. to Prof. of Educ. .....	1
CSCI 1100	Using Info Technology .....	3
PHED 1130	Fitness for Life .....	2
PEXS 2900	Orient. to PEXS .....	1
<b>TOTAL</b>	.....	<b>17</b>

**Freshman - Spring Semester**

K-12 Science Requirements	.....	4
ENGL 1020	Crit. Think/Argumen. ....	3
Identity, Ethics & Social Respons.	.....	3
EDFN 2300	Found. for Teaching .....	3
PHED 2701	Aquatics .....	1
Institutions and Society	.....	3
<b>TOTAL</b>	.....	<b>17</b>

**Sophomore - Fall Semester**

Heritage - Literature	.....	3
HIST 2010	U S History to 1877 .....	3
PEXS 3510	Found. of Phys. Educ. ....	3
HDAL 2310	Developmental Psych. ....	3
PEXS 3080	Teaching Aerobics .....	3
<b>TOTAL</b>	.....	<b>15</b>

**Sophomore - Spring Semester**

EDFN 3301	Issues in Education	3
PEXS 3095	Teaching Sports Skills	3
PEXS 3005	Instruct. Delivery Tech	3
PEXS 3085	Teaching Rhy. & Dance	3
HDAL 3310	Educational Psychology	3
PEXS 3032	Psychomotor Devel.	3
<b>TOTAL</b>		<b>18</b>

**Junior - Fall Semester**

PEXS 3500	Dance as Human Exper.	3
PEXS 3700	Elementary PE I	4
PEXS 4700	Secondary PE I	4
HIST 2020	U S History Since 1877	3
PEXS 4370	Psychology of Sport	3
<b>TOTAL</b>		<b>17</b>

**Junior - Spring Semester**

PEXS 3710	Elementary PE II	3
PEXS 4710	Secondary PE II	3
PEXS 3850	Scientific Aspects	4
PEXS 4060	Measure & Eval.	3
PEXS 4250	PE for Atypical Pop.	3
<b>TOTAL</b>		<b>16</b>

**Senior - Fall Semester**

Institutions and Society	3	
Humanities	3	
SALM 4210	Legal Issues	3
MEDA 3570	Educational Tech.	3
PEXS 2955	Care and Prevention	3
<b>TOTAL</b>		<b>15</b>

**Senior - Spring Semester**

CUAI 4580	Student Teaching	12
EDFN 4581	Seminar in Teaching	3
<b>TOTAL</b>		<b>15</b>

**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.

**General Education Core (44-45 credits)**

CHEM 1110/1111	Chemistry I	4
CHEM 1120/1121	Chemistry II	4

**Major Core (58 credits)**

PHED 1130	Fitness for Life	2
PHED 2XXX	Lifetime Activity	1
PEXS 2900	Orientation to PEXS	1
PEXS 2955	Care & Prevention of Athletic Injuries	3
PEXS 3080	Teaching of Aerobic Conditioning	3
PEXS 3510	Foundations of Physical Education	3
PEXS 3610	Exercise Physiology I	3
PEXS 3655	Sports Nutrition	3
PEXS 4061	Exercise Fitness Testing	3
SALM 4210	Legal Issues	3
PEXS 4270	Structural Kinesiology	3
PEXS 4271	Mechanical Kinesiology	3
SALM 4215	Psychology of Sport & Leisure	3
PEXS 4467	Metabolic Aspects of Exer. & Disease	3
PEXS 4620	Exercise Physiology II	3
PEXS 4630	Exercise Science Wellness Intern.	12
PEXS 4650	Developing Wellness Programs	3
PEXS 4977	Exercise Management	3

**Program Requirements (26 credits)**

BIOL 1110/1111	Biology for Science Majors	4
AHSC 2420	Principles of Nutrition	3
HSCI 3000	Human Anatomy	4
HSCI 3020	Human Physiology	4
PSYC 4557	Intro to Behavioral Med	3
AHSC	Nutrition Electives	6
Electives		2-4
<b>TOTAL</b>		<b>128</b>

**Suggested Four-Year Sequence for Exercise Science Concentration Suggested Semester Schedule**

**Freshman - Fall Semester**

CHEM 1110/1111	General Chemistry Lecture & Lab I	4
ENGL 1010	Crit. Read/Expos Writ	3
MATH 1840	Analy. Geo/Dif Cal	3
HIST 2010	The US to 1877	3
CSCI 1100	Using Inf. Technology	3
PHED 1130	Fitness for Life	2
<b>TOTAL</b>		<b>18</b>

**Freshman - Spring Semester**

BIOL 1110/1111	Biological Science Lecture & Lab I	4
CHEM 1120/1121	General Chemistry Lecture & Lab II	4
ENGL 1020	Crit. Think/Argumen.	3
PEXS 2900	Orient. to PEXS	1
HIST 2020	The US Since 1877	3
PSYC 1310	Intro. to Psychology	3
<b>TOTAL</b>		<b>18</b>

**Sophomore - Fall Semester**

AHSC 2420	Principles of Nutrition	3
CSCI 1101	Intro. to Spreadsheets	1
HSCI 3000	Human Anatomy	4
PEXS 3080	Teach. Aerobic Cond.	3
PEXS 3510	Foundations of PE	3
Institutions and Society		3
<b>TOTAL</b>		<b>17</b>

**Sophomore - Spring Semester**

Nutrition Elective	3	
HSCI 3020	Human Physiology	4
PHED 2xxx	PE Activity	1
PEXS 4270	Structural Kinesiology	3
PEXS 3500	Dance as Human Exper.	3
Identity, Ethics & Social Respons.		3
<b>TOTAL</b>		<b>17</b>

**Junior - Fall Semester**

PEXS 3655	Sport Nutrition	3
PEXS 2955	Care & Prev Ath Injuries	3
PEXS 3610	Exercise Physiology	3
PEXS 4271	Mech. Kinesiology	3
Humanities Elective		3
Heritage - Literature		3
<b>TOTAL</b>		<b>18</b>

**Junior - Spring Semester**

SALM 4210	Legal Issues	3
PEXS 4620	Exercise Physio II	3
PSYC 4557	Intro. Behavior Med.	3
PEXS 4650	Strat-Dev Wellness Prog.	3
Nutrition Elective		3
<b>TOTAL</b>		<b>15</b>

**Senior - Fall Semester**

PEXS 4061	Exer. Fitness Testing	3
SALM 4215	Psychology of Sport	3
PEXS 4467	Nutr & Exer. Rel Aspects	3
PEXS 4977	Exercise Management	3
Free Elective		1
<b>TOTAL</b>		<b>13</b>

**Senior - Spring Semester**

PEXS 4630	Exer. Science Internship	12
<b>TOTAL</b>		<b>12</b>

**SPORT MANAGEMENT AND LEISURE SERVICES**

The sport management/leisure services concentration provides instruction and training in planning, organization, and leadership as they relate to the field of sport management and leisure services. 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 (44-45 credits)**

HSCI 2010-2011	Anatomy & Physiology I	4
HSCI 2020-2021	Anatomy & Physiology II	4
OR ANY TWO OF:		
CHEM 1010, CHEM 1030, PHYS 1030		8

<b>Major Core</b> .....	<b>(38 credits)</b>
PHED 1130 Fitness for Life .....	2
PHED 2XXX Lifetime Activity .....	1
PEXS 2900 Orientation to PEXS .....	1
PEXS 2955 Care & Prevention of Athletic Injuries .....	3
SALM 3210 Practica I in SMLS .....	1
SALM 3211 Practica II in SMLS .....	1
SALM 3212 Practica III in SMLS .....	1
SALM 3220 Facility and Event Management .....	3
SALM 3225 Public Relations and Marketing .....	3
PEXS 3510 Foundations in Physical Education .....	3
PEXS 3850 Scientific Basis of Human Performance .....	4
SALM 4210 Legal Issues .....	3
SALM 4250 Internship in SMLS .....	6
SALM 4215 Psychology of Sport & Leisure .....	3
MGMT 3000 Organizational Management .....	3

**Business Guided Electives** .....(9 credits)

Selection One Option

**Sport Management Option** .....(27 credits)

SALM 3230 Sport in the Social Context .....	3
SALM 4205 Issues in Sport Management .....	3
SALM 4225 Sport Management .....	3
SALM 4230 Fund Raising in Sports .....	3
Designated Electives .....	15

**Leisure Services Option** .....(27 credits)

SALM 3105 Program and Leadership in Leisure Services .....	3
SALM 3135 Administration in Leisure Services .....	3
SALM 3130 Natural Resource Management .....	3
SALM 3125 Camp Leadership .....	3
Designated Electives .....	15
Free Electives .....	12

**TOTAL** ..... 128

**Suggested Four-Year Sequence for Sport Management and Leisure Services Concentration (Sport Management Option)**

**Suggested Semester Schedule**

**Freshman - Fall Semester**

ENGL 1010 Crit. Read/Expos Writ .....	3
MATH (See General Education Core) .....	3
HIST 2010 The US to 1877 .....	3
CSCI 1100 Using Information Technology .....	3
PHED 1130 Fitness for Life .....	2
PHED 2xxx Activity .....	1
Free Elective .....	1
<b>TOTAL</b> .....	<b>16</b>

**Freshman - Spring Semester**

ENGL 1020 Crit. Think/Argumen .....	3
HIST 2020 The US since 1877 .....	3
PEXS 2900 Orient. to PEXS .....	1
Heritage - Literature .....	3
Identity, Ethics, & Social Respons. ....	3
Institutions and Society .....	3
<b>TOTAL</b> .....	<b>16</b>

**Sophomore - Fall Semester**

SALM 3220 Facility & Event Mgmt .....	3
PEXS 2955 Care & Prevention .....	3
CSCI 1101 Intro to Spreadsheets .....	1
PEXS 3500 Dance as Human Exper .....	3
HSCI 2010/2011 Anatomy & Physiology I - Lecture and Lab .....	4
SALM 3210 Practica I .....	1
<b>TOTAL</b> .....	<b>15</b>

**Sophomore - Spring Semester**

SALM 3225 Public Rel & Mktg .....	3
SALM 3211 Practica II .....	1
PEXS 3510 Found. of Physical Edu .....	3
General Education Science .....	4
Humanities .....	3
Designated Elective .....	3
<b>TOTAL</b> .....	<b>17</b>

**Junior - Fall Semester**

Designated Elective .....	3
SALM 3230 Sport in Society .....	3
MGMT 3000 Organizational Mgmt .....	3
SALM 4230 Fund Raising .....	3
Designated Elective .....	3
Guided Elective .....	3
<b>TOTAL</b> .....	<b>18</b>

**Junior - Spring Semester**

SALM 4205 Issues in Sport Mgmt .....	3
SALM 3212 Practica II .....	1
SALM 4210 Legal Issues .....	3
SALM 4215 Psychology of Sport .....	3
PEXS 3850 Scientific Aspects .....	4
Guided Elective .....	3
<b>TOTAL</b> .....	<b>17</b>

**Senior - Fall Semester**

SALM 4225 Sport Management .....	3
Designated Elective .....	3
Guided Elective .....	3
Guided Elective .....	3
Free Elective .....	3
Free Elective .....	3
<b>TOTAL</b> .....	<b>18</b>

**Senior - Spring Semester**

SALM 4250 Internship .....	6
Designated Elective .....	3
Free Elective .....	3
Institution and Society .....	3
<b>TOTAL</b> .....	<b>15</b>

**MINORS**

**LEISURE SERVICES MINOR** ..... (18 credits)  
(Pending TBR approval)

SALM 3100 Introduction to Leisure Services .....	3
SALM 3105 Programming & Leadership in Leisure Services .....	3
SALM 3110 Interpretation of Cultural; and Natural Resources .....	3
SALM 3117 Recreation for Special Populations .....	3
SALM 3120 Outdoor Recreation Skills .....	3
SALM 3135 Administration in Leisure Services .....	3

Students selecting the leisure services minor should contact Dr. Tom Coates, 305 East Mini-Dome, 439-5261.

**SPORT MANAGEMENT MINOR** ..... (18 credits)  
(Pending TBR approval)

MGMT 3000 Organizational Management .....	3
SALM 3220 Facility and Event Management .....	3
SALM 3225 Public Relations and Marketing .....	3
SALM 4205 Issues in Sport Management .....	3
SALM 4225 Sport Management .....	3
SALM 4230 Fund Raising in Sport Management .....	3

**ATHLETIC COACHING MINOR** ..... (20 credits)

PEXS 2955 Care & Prevention of Athletic Injuries .....	3
PEXS 3850 Scientific Basis of Human Performance .....	4
SALM 4215 Psychology of Sport & Leisure .....	3
SALM 4225 Management of Sport & Leisure Activities .....	3
PEXS 4600 Athletic Coaching Practicum .....	3
PEXS Two Electives from 3021, 3022, 3061, 3062, 3071, or 3072 .....	4

Students selecting this minor should see Dr. Tom Roberts, in the Department of Physical Education, Exercise, & Sport Sciences.

**PHYSICAL EDUCATION MINOR**

The minor in physical education consists of 18 semester hours of study to be chosen by the student in consultation with an advisor assigned by the Department of Physical Education, Exercise & Sport Sciences. Courses taken prior to approval by an Advisor may not count for the minor. The minor in physical education does not meet Tennessee teacher certification requirements. One-hour activity courses and general education core courses may not be used to fulfill the requirements of this minor. Students selecting this minor should see the Chair of the Department of Physical Education, Exercise & Sport Sciences.

**GRADUATE**

Graduate Study – The Department of Physical Education, Exercise & Sport Sciences offers a graduate major in physical education leading to the master of arts or master of education degree. More information on these programs is contained in the Graduate Catalog.

**PHYSICAL EDUCATION BASIC INSTRUCTION PROGRAM REQUIREMENTS (BIP)**

University regulations require each student to complete two courses from the physical education basic instruction program (BIP) or an approved equivalent. University-approved equivalents include Marching Band (2 semesters) and MSCI 1130 (Mountaineering) = Lifetime activity and MSCI 1217 (PT) = Fitness activity. These courses should be completed during the freshman and sophomore years and are selected from departmental offerings listed under Physical Education Fitness Activities and Lifetime Activities. Major and minor courses may not be substituted for activity courses without permission from the department chair.

Students with disabilities may be eligible to enroll in PHED 2600, Adapted Physical Education. Approval for students who are physically challenged to enroll in PHED 2600 must come from the university physician in conjunction with Dr. Tom Coates (423/439-5261).

Students must select one course from the Fitness Activity category (1XXX) and one course from the Lifetime Activity category (2XXX) listed below to meet the two-course graduation requirement.

**Fitness Activities**

All Fitness Activities classes have a common lecture format, a common written examination, and a common fitness assessment. These activities are designed to provide students with a common fitness experience.

- 1115 Aerobic Dance ..... (1 credit)
- 1120 Aquafitness ..... (1 credit)
- 1130 Fitness for Life\* ..... (2 credits)
- 1135 General Conditioning ..... (1 credit)
- 1137 Power Walking ..... (1 credit)
- 1140 Strength Conditioning ..... (1 credit)
- 1150 Weight Management Exercise\* ..... (1 credit)

**Lifetime Activities**

- 2105 Beginning Ballet ..... (1 credit)
- 2110 Intermediate Ballet ..... (1 credit)
- 2115 Contemporary Dance ..... (1 credit)
- 2120 Folk Dance ..... (1 credit)
- 2125 Jazz Dance ..... (1 credit)
- 2130 Modern Dance Techniques ..... (1 credit)
- 2135 Social Dance ..... (1 credit)
- 2145 Square Dance ..... (1 credit)
- 2150 Tap Dance ..... (1 credit)
- 2160 Country & Western Dance ..... (1 credit)
- 2205 Archery ..... (1 credit)
- 2210 Badminton ..... (1 credit)
- 2215 Basketball ..... (1 credit)
- 2220 Billiards ..... (1 credit)
- 2225 Bowling\* ..... (1 credit)
- 2230 Fencing ..... (1 credit)
- 2240 Gymnastics/Tumbling ..... (1 credit)
- 2255 Racquetball ..... (1 credit)
- 2260 Softball ..... (1 credit)
- 2265 Soccer ..... (1 credit)
- 2270 Tennis ..... (1 credit)
- 2275 Advanced Tennis ..... (1 credit)
- 2280 Volleyball ..... (1 credit)
- 2305 Karate\* ..... (1 credit)
- 2310 Judo\* ..... (1 credit)
- 2315 Self Defense\* ..... (1 credit)
- 2320 Shao Lin ..... (1 credit)
- 2325 Tai Chi\* (1 credit)
- 2400 Beginning Swimming ..... (1 credit)
- 2410 Advanced Swimming ..... (1 credit)
- 2420 Lifeguarding ..... (2 credits)
- 2430 Water Safety Instructor ..... (3 credits)
- 2440 Scuba\* ..... (1 credit)
- 2505 Camping & Canoeing\* ..... (2 credits)
- 2510 Horseback Riding & Equitation\* ..... (1 credit)
- 2515 Marksmanship\* ..... (1 credit)
- 2520 River Rafting ..... (1 credit)
- 2525 Rock Climbing ..... (1 credit)
- 2530 Mountain Biking ..... (1 credit)
- 2535 Canoeing ..... (1 credit)
- 2540 Snowboarding ..... (1 credit)
- 2545 Skiing\* ..... (1 credit)
- 2550 Orienteering ..... (1 credit)
- 2553 Backpacking ..... (1 credit)
- 2555 Outdoor Living Skills ..... (1 credit)
- 2600 Adapted PE (Restricted enrollment) ..... (2 credits)

\* Additional fees are required in this course.

## 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, 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, an M.S. in clinical nutrition is offered by the Department of Applied Human Sciences in the College of Applied Science 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, Biochemistry, Biophysics, 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--0580, Telephone: (423) 439-4753.

## College of Nursing

P.O. Box 70617  
e-mail: [admitnur@etsu.edu](mailto:admitnur@etsu.edu)

Dean's Office: (423) 439-7186  
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, professional leadership, scholarship, and innovative practice. Fundamental to these goals for students and faculty are the pursuit of lifelong learning, responsiveness to changing health care needs, generation and dissemination of new knowledge, and service to the public and the profession. The college provides undergraduate and graduate programs. Information on the master's and doctoral degree programs is found in the Graduate Catalog. In addition, programs of advanced placement are available to eligible diploma or associate degree prepared nurses and to eligible licensed practical nurses interested in pursuing a Bachelor of Science in Nursing degree.

Students who complete the baccalaureate degree program may be recommended by the dean to 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).

The programs are approved by the Tennessee Board of Nursing and accredited by the National League for Nursing Accrediting Commission (NLNAC). The NLNAC is an additional source of information regarding tuition, fees, and program length (61 Broadway - 33rd Floor, New York City, NY 10006; 1-800-669-1656). 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: National League for Nursing Accrediting Commission**

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 community-based focus. 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 organizing and implementing comprehensive health care for individuals, families, groups, and communities, and assuming management and leadership positions in nursing practice.

A course of study that meets the degree requirements and the university's General Education Program Requirements will be planned with the student through regular advising sessions each semester.

### Admission Requirements

Students must first apply and be admitted to East Tennessee State University as pre-nursing students. Admittance to the university 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 major and other information can be obtained through the College of Nursing Office of Student Services, Room 46, Lamb Hall, (423) 439-4578 or 1-888-37NURSE, or by e-mail, [admitnur@etsu.edu](mailto:admitnur@etsu.edu).

The College of Nursing admits students to the B.S.N. major twice a year: the fall semester and the spring semester. The deadline for application to the fall semester is February 1 and the deadline for application to the spring semester is October 1.

To be considered for admission to the baccalaureate nursing major, the applicant must have a minimum cumulative grade point average of 2.60 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 is not included in the calculation of the cumulative grade point average for College of Nursing admission purposes.

The applicant must have completed, or have in progress, all of the following courses, or their equivalents: ENGL 1010 & 1020; 12 s.h. that will satisfy course requirements under "Areas of Familiarity," BIOL 1110/11; CSCI 1100; HSCI 2230/31; 1 s.h. of Physical Education; HIST 2010 & 2020; MATH 1530; AHSC 2420; approved literature course; and HSCI 3000.

The applicant must have earned a minimum of "C" (2.0) in each of the required science and health science courses. No more than two science/health science courses may be repeated, and no more than one science/health science course may be repeated more than once in order to achieve a minimum of "C" (2.0).

### Selection Process

After the deadline for application, eligible applicants will be rank-ordered by cumulative college-level grade point average. Class size is limited. Should there be more eligible applicants than there are spaces available, conditional admission 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. All applicants will be notified in writing of their admission status.

### 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 enrollment in nursing major courses and must reapply.

Students admitted to the clinical 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 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 Student Services.

Fully admitted students who continue to successfully progress in the curriculum on a full-time basis can expect to complete degree requirements in five semesters in the nursing major. Students may elect to complete the program on a part-time basis. Students should meet with a nursing advisor to develop an individualized plan for part-time study.

**Policies and Clinical Course Requirements**

Students will obtain a copy of the written policies 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 read the College of Nursing policies and agree to abide by them.

After admission to the major and before beginning any clinical practice courses, students must furnish evidence of having met clinical course requirements, including evidence of good health and freedom from communicable diseases (as documented on the health verification form), CPR certification, professional liability insurance coverage, and knowledge of universal precautions. Additional information may be required. Students 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 clinical 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.

**Required Non-nursing Support Courses .....Credits**

ENGL 1010	Critical Reading and Expos. Writing .....	3
ENGL 1020	Critical Thinking and Argumentation .....	3
BIOL 1110/11	Biology for Science Majors I (lec./lab) .....	4
CSCI 1100	Using Information and Technology .....	3
MATH 1530	Probability & Statistics (Non-Calculus) .....	3
Physical Education	Activities <sup>1</sup> .....	2
HIST 2010, 2020	American History .....	6
Areas of Familiarity <sup>1</sup>	.....	15
Approved literature course <sup>1</sup>	.....	3
AHSC 2420	Nutrition .....	3
HSCI 2230/31	Microbiology;	
	3000 Human Anatomy;	
	3020 Human Physiology .....	12
<b>TOTAL</b>	.....	<b>57</b>

<sup>1</sup>For course selection see General Education Core Requirements in University Bulletin. Courses are taken over a span of four semesters.

**Required Nursing Courses**

**Sophomore - First or Second Semester**

PMNU 2310	Communication for Health Professionals .....	3
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**Sophomore - Second Semester**

FCNU 2010	Care of Communities I .....	3
PMNU 2020	Intro. to Professional Nursing .....	3
FCNU 2030	Health Assessment .....	3

**Junior - First Semester**

ALNU 3000	Pathophysiology: Concepts of Disease Process .....	3
ALNU 3010	Pharmacology for Nursing .....	3
FCNU 3030	Assessment of Special Populations .....	2
ALNU 3020	Foundation of Nursing Skills .....	3
ALNU 3021	Adult & Family Care I (Practicum - 150 clock hours) .....	5

**Junior - Second Semester**

PMNU 3070	Community-Based Behavioral Health .....	3
FCNU 3040	Care of Infants & Children .....	2
FCNU 3050	Care of Adolescents & Young Adults .....	4
FCNU 3060	Nursing Process & Research in Family Care .....	2
FCNU 3051	Adult & Family Care II (Practicum - 240 clock hours) .....	8

**Senior - First Semester**

ALNU 4000	Care of the Middle Aged Adult .....	4
ALNU 4020	Care of Older Adults .....	2
ALNU 4030	Nursing Process & Research in Adult Care .....	3
ALNU 4021	Adult & Family Care III (Practicum - 240 clock hours) .....	8

**Senior - Second Semester**

PMNU 4060	Transition to Professional Practice .....	3
FCNU 4040	Care of Communities II .....	3
PMNU 4061	Senior Practicum (Practicum - 240 clock hours) .....	8
Non-nursing Support Credits	.....	57
Nursing Semester Hours Credit	.....	78
Elective (Nursing or Non-Nursing)	.....	3

**Total Semester Hour Credits Required ..... 138**

A "C" (2.0) or higher is required for all science/health science and nursing courses.

**Intensive Courses**

Students who enter ETSU as freshmen or with less than 60 transfer hours must take: two oral communication-intensive courses; one using information technology-intensive course, and four writing-intensive courses. At least one of the oral communication-intensive courses and the using information technology-intensive course must be in the major. At least two of the writing-intensive courses must be in the major; at least two must be at the 3000-4000 level. Students must meet proficiency-intensive requirements through courses taken at ETSU.

**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 licensure as an R.N. in Tennessee to take full advantage of this articulation program. Graduates of diploma and non-accredited programs must also have a minimum of 64 semester 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

classes are available in Johnson City, Kingsport, Bristol, Morristown 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.

## College of Public and Allied Health

P.O. 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:  
 Communicative Disorders      Environmental Health  
 Dental Hygiene                  Public Health  
 Health Sciences

Department located on VA Campus, Bldg. 2:  
Physical Therapy

Programs in the Department of Health Related Professions – Elizabethton, Tenn.:  
 Cardiopulmonary Science (Respiratory Care)  
 Radiography

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

Department	Major	Concentrations	Degrees
Communicative Disorders	CDIS	Audiology Speech Pathology	M.S.
Dental Hygiene	DHYG		A.A.S. B.S.D.H.
Environmental Health	ENVH	Environmental Health Practices  Occupational Health and Safety  Administrative Program Specialist Program	B.S.E.H.   M.S.E.H.
Health Related Professions	ALHE	CPSC RADT	B.S. B.S.
Health Sciences	HSCI HSCI *MBIM	Microbiology Medical Technology Microbiology	B.S. B.S. M.S.
Public Health	PHBS	Community Health Health Administration Patient Education School Health Community Health Public Health Administration	B.S.     M.P.H.
Physical Therapy	PHYT		M.P.T.

\*Offered in conjunction with Biological Sciences

### Admission Requirements

Admission to some programs in the College of Public and Allied Health is selective. Students seeking admission to Dental Hygiene and Health Related Professions 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.

### 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 Department of Dental Hygiene 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 the Department of 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. Clinical doctorate in audiology (AUD) is under review currently.

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 Health Sciences offers study for the master of science degree in microbiology in conjunction with Biological Sciences.

The Department of Public Health offers the master of public health degree with area concentrations in community health and public health administration.

The Department of Physical Therapy offers a post-baccalaureate entry-level master's in physical therapy (M.P.T.) degree.

A graduate certificate in gerontology and a graduate certificate in health administration are offered in conjunction with other academic units on campus. Information about these programs is available from the Dean's office.

**Dental Career Advisement**

The College of Public and Allied Health offers advisement for students pursuing dental 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 application to dental school must meet requirements as prescribed by each dental school. ETSU pre-dental advisement offers students assistance in the following areas: determining program requirements, application for Dental Admissions Testing (DAT), guidance in selecting a relevant major, and procedures for application to dental school.

Pre-dental requirements generally include two semesters of each of the following courses: Critical Writing, General Chemistry, General Biology, General Physics, and Organic Chemistry (laboratory courses are required for all science courses).

Pre-dental students enhance their application to dental school with successful completion of a bachelor's degree. The major field of study may be selected by the student consistent with individual academic interests.

Students interested in dental careers should direct inquiries to:

Rebecca Nunley, D.D.S.  
East Tennessee State University  
P.O. Box 70690  
Johnson City, TN 37614-1709  
(423) 439-4497; nunley@etsu.edu

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

<b>Department of Communicative Disorders (CDIS)</b>	
<b>P.O. Box 70643</b>	<b>Phone: 423/439-4272</b>

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-language pathology are fully accredited by the American Speech-Language-Hearing Association (ASHA). Undergraduate students may receive preparation for the graduate programs in CDIS by 1) choosing to major in communications with an emphasis in Communication Sciences, or 2) selecting any major with a minor in CDIS. The minor is proposed currently for fall 2002. At the graduate level, the master of science is offered with a major in Communicative Disorders. The student may choose a concentration in either audiology or speech-language pathology. Completion of the graduate program 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 already 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 semester hours in the Biological/Physical Science and Mathematics (at least one course in each area)

At least 6 semester 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.

<b>Communication Oriented Courses</b>		<b>Term Offered</b>
CDIS 4000	Communication Sciences and Disorders (3)	Fall
CDIS 4030	Language Development (3)	Spring
CDIS 4010	Speech and Hearing Science I (4)	Fall
CDIS 4020	Speech and Hearing Science II	Spring
CDIS 4200	Clinical Process (3)	Spring

Two of the following three:

- SPCH 2330 Communication Theory (3) ..... Fall
- SPCH 3310 Intrapersonal Communication (3) ..... Spring
- SPCH 3350 Interpersonal Communication (3) ..... Fall

**Department of Dental Hygiene (DHYG)**

**P.O. 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 dental examiners. Most states require dental hygienists to practice under the supervision of a licensed dentist.

The ETSU Department of Dental Hygiene offers three degree programs: (1) Associate of Applied Science in Dental Hygiene (A.A.S.); (2) Bachelor of Science in Dental Hygiene (B.S.D.H.); and (3) an online degree completion program for dental hygienists with an associate degree, leading to a B.S.D.H.

**Program Admission:** All students applying to the department 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:

Office of Admissions  
P.O. Box 70731  
East Tennessee State University  
Johnson City, TN 37614

The separate departmental application must be received by **March 1** for consideration by the admissions committee. Students may secure academic advisement prior to admission by contacting the Department of Dental Hygiene Admission's Chair. Requests for the application forms should be addressed to:

Admissions Chair, Department of Dental Hygiene  
College of Public and Allied Health  
P.O. Box 70690  
East Tennessee State University  
Johnson City, TN 37614

You may also obtain the information by calling 423/439-4497 or from our web site at <http://www.etsu.edu/cpah/dental>.

Requests for the B.S.D.H. online degree completion program for practicing dental hygienists may also be obtained from the above address, phone number, and web site address. Please be certain to specify which program you are interested in pursuing.

**Expenses (for A.A.S. and B.S.D.H. programs):** 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 \$2,000.00. 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 faculty to determine feasibility of progression. Following faculty review of student performance, an individual plan for curriculum completion will be presented for consideration for any student affected.

**Associate of Applied Science**

The A.A.S. degree in dental hygiene consists of 48 semester hours of study in dental hygiene and 35 semester hours of study in other university departments. All courses offered in the Department of Dental Hygiene must be taken in sequence as presented in the curriculum. Courses outside of the Department may be taken prior to entry into the program. Applicants should complete as many of the non-dental hygiene courses prior to application to be competitive in the class selection process.

**Admission Requirements (A.A.S.)**

Candidates for admission must be graduates of a high school program which has included the study of biology and chemistry. Priority will be given to those students having completed Anatomy and Physiology I and II (HSCI 2010 and 2010), Chemistry 1030, and Microbiology (HSCI 2230 and 2231) or their equivalent at another university, with a "C" or higher grade, and with a 2.0 or higher overall college average. Evidence of university admission, updated H.S. and/or college transcripts, and dental hygiene application forms must be returned to the dental hygiene office by March 1 for the applicant to be considered by the admission's committee. Also a personal interview will be scheduled with the applicant after the applicant's file is complete. All applicants will be notified in writing of the action taken by the dental hygiene admission committee.

**DENTAL HYGIENE CURRICULUM  
ASSOCIATE DEGREE PROGRAM (A.A.S.)**

**First Year - Fall Semester**

HSCI 2010	Anatomy & Physiology I .....	3
PSYC 1310	Introduction to Psychology .....	3
CHEM 1030	Introduction to Chemistry Survey .....	4
DHYG 2020	Dental Anatomy & Histology .....	3
DHYG 2040	Dental Office Emergencies .....	2
DHYG 2030	Pre-Clinical Lecture .....	3
DHYG 2031	Pre-Clinical Lab .....	2
DHYG 2050	Occupational Safety for Dental Healthcare Workers .....	1
<b>TOTAL</b>	.....	<b>21</b>

**First Year - Spring Semester**

HSCI 2020	Anatomy & Physiology II	3
HSCI 2230	Introduction to Microbiology	3
HSCI 2231	Introduction to Microbiology Lab	1
DHYG 2160	Periodontology	3
DHYG 2170	Dental Radiology	3
DHYG 2171	Dental Radiology Lab	1
DHYG 2131	Dental Hygiene Clinical Practice I	4
DHYG 2130	Dental Hyg. Clin.Seminar I	1
<b>TOTAL</b>		<b>19</b>

**Summer Hours**

SOAA 1020	Introduction to Sociology	3
DHYG 1700	Introduction to General & Oral Pathology	3
DHYG 1100	Introduction to Head & Neck Anatomy	1
AHSC 2420	Principles of Nutrition	3
<b>TOTAL</b>		<b>10</b>

**Second Year - Fall Semester**

SPCH 2300	General Speech	3
DHYG 2200	Introduction to Dental Materials	2
DHYG 2201	Introduction to Dental Materials Lab	1
DHYG 2600	Introduction to Pharmacology I	3
DHYG 2400	Clinical Practice II	4
DHYG 2410	Entry Clinical Seminar II	1
DHYG 2500	Introduction to Community Dentistry	3
<b>TOTAL</b>		<b>17</b>

**Second Year - Spring Semester**

Humanities Elective		3
ENGL 1010	Critical Reading & Expository Writing	3
MATH 1530	Probability & Statistics	3
DHYG 2700	Seminar in Ethics	1
DHYG 2800	Clinical Practice III	4
DHYG 2810	Entry Clinical Seminar III	1
<b>TOTAL</b>		<b>15</b>

<b>Total hours for A.A.S. Degree</b>	<b>80</b>
<b>Total hours for DHYG</b>	<b>45</b>

**Bachelor of Science**

The B.S.D.H. degree consists of 66 semester hours of dental hygiene core classes and 59 semester hours of general education core classes for a total of 125 semester hours of study. 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 application.

**Admission Requirements (B.S.D.H.)**

Admission to the ETSU Department of Dental Hygiene requires that the applicant be admitted to the university before 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 be readmitted to the university. Admission to the B.S.D.H. program requires the following information be submitted: (1) evidence of admission to the university, (2) completed departmental application form, and (3) official college transcripts from all institutions attended. The department 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.D.H. 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.

**DENTAL HYGIENE CURRICULUM  
BACHELOR OF SCIENCE IN DENTAL HYGIENE (B.S.D.H.)**

**Prerequisites:**

**First Year**

**Fall Semester**

ENGL 1010	Critical Reading & Expository Writing	3
MATH 1530	Probability & Statistics	3
CSCI 1100	Using Information Technology	3
CHEM 1030	Introduction to Chemistry Survey	4
HSCI 2010	Anatomy & Physiology I	3
HSCI 2011	Anatomy & Physiology Lab I	1
PHED 1000	Physical Education	1
<b>TOTAL</b>		<b>18</b>

**Spring Semester**

ENGL 1020	Critical Thinking & Argumentation	3
HSCI 2020	Anatomy & Physiology II	3
HSCI 2021	Anatomy & Physiology Lab II	1
HSCI 2230	Introduction to Microbiology	3
HSCI 2231	Introduction to Microbiology Lab	1
PSYC 1310	Introduction to Psychology	3
SPCH 1300	General Speech	3
<b>TOTAL</b>		<b>17</b>

**Second Year**

**Fall Semester**

HIST 2010	The United States History to 1877	3
DHYG 2060	Introduction to Dental Hygiene	1
SOAA 1020	Introduction to Sociology	3
DHGY 2020	Dental Anatomy & Histology	3
DHGY 2040	Dental Office Emergencies	2
DHYG 2030	Pre-Clinical Lecture	3
DHYG 2031	Pre-Clinical Lab	2
DHYG 2050	Occupational Safety for Dental Healthcare	1
<b>TOTAL</b>		<b>18</b>

**Spring Semester**

HIST 2020	The United States since 1877	3
Heritage Elective		3
DHYG 2160	Periodontology	3
DHYG 2170	Dental Radiology	3
DHYG 2171	Dental Radiology Lab	1
DHYG 2131	Clinical Practice I	4
DHYG 2130	Clinical Seminar I	1
<b>TOTAL</b>		<b>18</b>

**Summer Semester**

PHED 2000	Physical Education	1
Arts & the Artistic Vision Elective		3
DHYG 3031	Clinical Practice II	4
DHYG 3030	Clinical Seminar II	2
DHYG 3000	General & Oral Pathology	3
DHYG 4000	Dental Radiographic Interpretation	1
DHYG 3010	Head & Neck Anatomy	2
AHSC 2420	Principles Of Nutrition	3
<b>TOTAL</b>		<b>19</b>

**Third Year**

**Fall Semester**

DHYG 4030	Anesthesia & Pain	1
DHYG 4010	Teaching Strategies	3
DHYG 3110	Dental Materials	2
DHYG 3111	Dental Materials Lab	1
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
<b>TOTAL</b>		<b>18</b>

**Spring Semester**

Identity, Ethics, & Social Responsibility		3
Humanities		3
DHYG 4110	Supportive Periodontal Therapy	3
DHYG 4130	Geriatric Dental Hygiene	2
DHYG 3200	Issues in Dental Hygiene	1
DHYG 4121	Dental Hygiene Clinical Practice IV	4
DHYG 4120	Dental Hygiene Clinical Seminar IV	1
DHYG 4141	Community & Rural Dental Health	1
<b>TOTAL</b>		<b>18</b>

<b>Total hrs. for DHYG</b>	<b>66</b>
<b>Total hrs. for B.S.D.H. Degree</b>	<b>126</b>

### Degree Completion Program (B.S.D.H.)

The Department of Dental Hygiene offers a B.S.D.H. online degree completion program. Eligible students must have earned an Associate Degree or Certificate in Dental Hygiene from an accredited institution and have a **minimum** of two (2) years experience in the dental hygiene profession. An earned Associate/Certificate Degree in Dental Hygiene is accepted as 46 hours of lower division course credit. In addition, two (2) years of professional experience as well as successful completion of DHYG 3100 (5-hour online course) will earn the student 16 hours of upper division credit. An additional 13 hours of coursework online and completion of ETSU graduation requirements will earn the student a Bachelor of Science in Dental Hygiene.

**Computer Requirements:** A moderate level of computer literacy is required to successfully complete this online program. Students are advised to acquire the necessary computer skills prior to beginning this program. Applicants should also contact the department to determine the minimum system requirements for participation in the program.

**Admission Requirements:** Admission to the B.S.D.H. Degree Completion Program Online requires the following information be submitted:

1. Evidence of admission to the university
2. Official transcripts from all institutions attended and proof of graduation from an accredited dental hygiene program.
3. Eligibility for licensure within the student's state of residence.
4. Evidence of dental hygiene experience equivalent to a minimum of two years of full-time practice.

The Department of Dental Hygiene will review applications in February and October for acceptance in the fall and spring.

#### B.S.D.H. Degree Completion Requirements

Application and Admission =  
 credit for A.A.S./Certificate ..... 46 credit hours  
 (Lower Division)

DHYG 3100 Contemporary Dental Hygiene  
 Theory & Practice ..... 5 Credit Hours

With successful completion of DHYG 3100 the completion student will receive course credit for DHYG 3031 (Clinical Practice II), 3120 (Pharmacology), 4000 (Dental Radiographic Interpretation), 4021 (Dental Hygiene Clinical Practice III), and 4121 (Dental Hygiene Clinical Practice IV). ..... 16 credit Hours

#### DHYG Online Curriculum:

DHYG 4200 Issues in Dental Hygiene ..... 1 Credit Hour  
 DHYG 4010 Teaching Strategies ..... 3 Credit Hours  
 DHYG 4020 Clinical Seminar III ..... 1 Credit Hour  
 DHYG 4030 Anesthesia & Pain Control ..... 1 Credit Hour  
 DHYG 4110 Supportive Perio. Therapy ..... 3 Credit Hours  
 DHYG 4120 Clinical Seminar IV ..... 1 Credit Hour  
 DHYG 4130 Geriatrics ..... 2 Credit Hours  
 DHYG 4141 Community & Rural Den. Hlth ..... 1 Credit Hour

**Total Major Field Core Credit Hours: ..... 80 Credit Hours**

### Department of Environmental Health (ENVH)

P.O. Box 70682

Phone: 423/439-5250

B.S.E.H. and M.S.E.H. programs 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 in Environmental Health

##### A. University General Education Program; Math and Science requirements:

Environmental Health	Credit Hours
MATH 1720 Precalculus	3
BIOL 1110/1111 Biology for Science Majors I	4
MATH 1840 Calculus	3
BIOL 1130/1131 Biology for Science Majors III	4
PHYS 2010 General Physics I-Non-Calculus	3
CHEM 1110/1111 General Chemistry I	4
CHEM 1120/1121 General Chemistry II	4
HSCI 3320/3321 General Microbiology	4
HSCI 3000 Human Anatomy	4
CHEM 2010/2011 Organic Chemistry I	5
HSCI 3020 Human Physiology	4

**B. Environmental Health Requirements:**

ENVH 1800	Human Ecology	
PUBH 3000	Introduction to Biostatistics	
PUBH 3080	Principles of Epidemiology	
ENVH 3100	Water Supplies & Wastewater Treatment	
ENVH 3400	Introduction to Air Pollution	
ENVH 3500	Environmental Safety	
ENVH 3700	Solid Waste Management	
ENVH 4000	Public Health Law	
*ENVH 4080	Environmental Health Practice	
ENVH 4100	Shelter Environments	
ENVH 4207	Principles of Radiological Health	
ENVH 4340	Occupational Health	
ENVH 4357	Toxicology	
ENVH 4387	Biological Analysis in Environmental Health	
ENVH 4397	Environmental Analysis	
ENVH 4400	Environmental Health Program Planning & Admin.	
ENVH 4607	Food Sanitation Principles	
<b>Total</b>		<b>95</b>

\*Three hours of ENVH 2989, ENVH 3989 or ENVH 4989 will substitute for ENVH 4080.

**Total hours for completion of program ..... 129**

*Note: Course 3040 not for environmental health majors. Course 4000 not required for international students.*

Student must be competent in computer science before completing 60 semester hours. Computer Science 1100 is the recommended computer science course.

**II. Concentration in Occupational Health and Safety**

**A. University General Education Program;**

**Math and Science requirements:**

**Occupational Health and Safety ..... Credit Hours**

BIOL 1110/1111	Biology for Science Majors I	4
MATH 1720	Precalculus	3
BIOL 1130/1131	Biology for Science Majors III	4
MATH 1840	Analytic Geometry & Calculus	3
CHEM 1110/1111	General Chemistry I	4
CHEM 1120/1121	General Chemistry II	4
PHYS 2010/2011	General Physics I-Non-Calculus	4
CHEM 2220/2221	Quantitative Analysis	4
PHYS 2020/2021	General Physics II-Non-Calculus	4
CHEM 2010	Organic Chemistry I	3
CHEM 2011	Organic Chemistry I Lab	2
HSCI 3000	Human Anatomy	4
HSCI 3320/3321	General Microbiology	4
CHEM 2020	Organic Chemistry II	3
CHEM 2021	Organic Chemistry II Lab	2
HSCI 3020	Human Physiology	4

**B. Environmental Health Requirements:**

PUBH 3000	Introduction to Biostatistics	
PUBH 3080	Principles of Epidemiology	
ENVH 3400	Introduction to Air Pollution	
ENVH 3500	Environmental Safety	
* ENVH 4080	Environmental Health Practice	
ENVH 4207	Principles of Radiological Health	
ENVH 4340	Occupational Health	
ENVH 4347	Ergonomics	
ENVH 4357	Toxicology	
ENVH 4360	Industrial Hygiene Laboratory	
ENVH 4387	Biological Analysis in Envir. Health	
ENVH 4397	Environmental Analysis	
ENVH 4500	Performance Mgmt. For Safety & Health	
ENVH 4710	Introduction to Hazardous Wastes	
<b>Total</b>		<b>101</b>

**Total hours for completion of the program:..... 132**

\*Three hours of ENVH 2989, ENVH 3989 or ENVH 4989 will substitute for ENVH 4080.

**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 2.3.

**Course Requirements:**

- 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

**Total ..... 22**

\*Note Prerequisites

**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.



**Course Requirements:**

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
<b>Total</b>	.....	<b>20</b>

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

**Suggested Course Sequences for B.S.E.H. - Environmental Health Concentration**

**Freshman - Fall Semester**

ENGL 1010	Critical Reading & Expository Writing .....	3
MATH 1720	Precalculus .....	3
PHED	Physical Education .....	1
ENVH 1800	Human Ecology .....	3
BIOL 1110/1111	Biology for Science Majors I .....	4
CSCI 1100	Using Information Technology .....	3
<b>TOTAL</b>	.....	<b>17</b>

**Freshman - Spring Semester**

ENGL 1020	Critical Thinking/Argumentation .....	3
MATH 1840	Analytic Geometry & Differential Calculus .....	3
PHED	Physical Education .....	1
Humanities Option	.....	3
BIOL 1130/31	Biology for Science Majors III .....	4
<b>TOTAL</b>	.....	<b>14</b>

**Sophomore - Fall Semester**

Institutions & Society Option	.....	3
HIST 2010	The United States to 1877 .....	3
PHYS 2010	General Physics I .....	3
Heritage Option	.....	3
CHEM 1110/11	General Chemistry I .....	4
<b>TOTAL</b>	.....	<b>16</b>

**Sophomore - Spring Semester**

HIST 2020	The United States since 1877 .....	3
Identity, Ethics & Social Responsibility	.....	3
CHEM 1120/21	General Chemistry II .....	4
HSCI 3320/21	Microbiology .....	4
Institutions & Society Option	.....	3
<b>TOTAL</b>	.....	<b>17</b>

**Junior - Fall Semester**

Arts & Artistic Vision Option	.....	3
HSCI 3000	Human Anatomy .....	4
PUBH 3000	Introduction to Biostatistics .....	3
CHEM 2010/11	Organic Chemistry I .....	5
ENVH 3100	Water Supplies .....	3
<b>TOTAL</b>	.....	<b>18</b>

**Junior - Spring Semester**

HSCI 3020	Human Physiology .....	4
ENVH 3500	Environmental Safety .....	3
ENVH 3400	Introduction to Air Pollution .....	3
PUBH 3080	Principles of Epidemiology .....	3
ENVH 4100	Shelter Environments .....	3
<b>TOTAL</b>	.....	<b>16</b>

**Summer Semester**

*ENVH 4080	Environmental Health Practice .....	3
* Offered in Summer only		

**Senior - Fall Semester**

ENVH 4207	Principles of Radiological Health .....	3
ENVH 4357	Toxicology .....	3
ENVH 3700	Solid Waste Management .....	3
ENVH 4387	Biological Analysis in Environmental Health .....	4
ENVH 4607	Food Sanitation Principles .....	3
<b>TOTAL</b>	.....	<b>16</b>

**Senior - Spring Semester**

ENVH 4000	Public Health Law .....	3
ENVH 4397	Environmental Analysis .....	4
ENVH 4400	Program Planning .....	3
ENVH 4340	Occupational Health .....	3
<b>TOTAL</b>	.....	<b>13</b>

**Suggested Course Sequences for B.S.E.H. - Occupational Health and Safety Concentration**

**Freshman - Fall Semester**

ENGL 1010	Critical Reading & Expository Writing .....	3
BIOL 1110/11	Biology for Science Majors I .....	4
MATH 1720	Precalculus .....	3
CHEM 1110/11	General Chemistry I .....	4
PHED	Physical Education Option .....	1
<b>TOTAL</b>	.....	<b>15</b>

**Freshman - Spring Semester**

ENGL 1020	Critical Thinking/Argumentation .....	3
BIOL1 130/31	Biology for Science Majors III .....	4
MATH 1840	Analytic Geometry & Differential Calculus .....	3
CHEM 1120/21	General Chemistry II .....	4
PHED	Physical Education Option .....	1
CSCI 1100	Using Information Technology .....	3
<b>TOTAL</b>	.....	<b>18</b>

**Sophomore - Fall Semester**

HIST 2010	The United States to 1877 .....	3
PHYS 2010/11	General Physics I .....	4
CHEM 2220/21	Quantitative Analysis .....	4
Identity, Ethics, & Social Responsibility Elective	.....	3
Institutions & Society	.....	3
<b>TOTAL</b>	.....	<b>17</b>

**Sophomore - Spring Semester**

HIST 2020	The United States since 1877 .....	3
PHYS 2020/21	General Physics II .....	4
Arts & Artistic Vision Option	.....	3
Heritage Option	.....	3
Humanities Option	.....	3
<b>TOTAL</b>	.....	<b>16</b>

**Junior - Fall Semester**

ENVH 3500	Environmental Safety .....	3
CHEM 2010/11	Organic Chemistry I .....	5
PUBH 3000	Introduction to Biostatistics .....	3
HSCI 3000	Human Anatomy .....	4
ENVH 3400	Introduction to Air Pollution .....	3
<b>TOTAL</b>	.....	<b>18</b>

**Junior - Spring Semester**

HSCI 3320/21	General Microbiology .....	4
CHEM 2020/21	Organic Chemistry II .....	5
PUBH 3080	Principles of Epidemiology .....	3
HSCI 3020	Human Physiology .....	4
<b>TOTAL</b>	.....	<b>16</b>

\*ENVH 4989 Cooperative Education ..... 3  
 \*Offered summer, fall, or spring semester of either sophomore, junior, or senior year

**Senior - Fall Semester**

ENVH 4387	Biological Analysis in Environmental Health .....	4
ENVH 4340	Occupational Health .....	3
ENVH 4357	Toxicology .....	3
ENVH 4500	Performance Management .....	3
Institutions & Society Option	.....	3
<b>TOTAL</b>	.....	<b>16</b>

**Senior - Spring Semester**

ENVH 4397	Environmental Analysis .....	4
ENVH 4347	Ergonomics .....	3
ENVH 4207	Principles of Radiological Health .....	3
ENVH 4360	Industrial Hygiene Lab .....	4
ENVH 4710	Introduction to Hazardous Waste .....	3
<b>TOTAL</b>	.....	<b>17</b>

**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.

<b>Department of Health Sciences (HSCI)</b>	
<b>P.O. Box 70673</b>	<b>Phone: 423/439-4485</b>

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 B.S. degree in Health Sciences. Two concentrations are available, Microbiology and Medical Technology. 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, microbiology, and medical technology. Courses are also offered for students in other disciplines who desire to acquaint themselves with a scientific attitude and the phenomena of living organisms.

All Health Sciences majors must complete the following courses:

CHEM 1110/1111	General Chemistry I	4
CHEM 1120/1121	General Chemistry II	4
BIOL 1110/1111	Biology for Science Majors I	4
BIOL 1120/1121	Biology for Science Majors II	4
PHYS 2010/2011	General Physics I-Non-Calculus	4
PHYS 2020/2021	General Physics II-Non-Calculus	4
CHEM 2220/2221	Quantitative Analysis	4
CHEM 3510/3511	Organic Chemistry I	5
CHEM 3520/3521	Organic Chemistry II	5

**Microbiology Concentration** – A minimum of 30 semester hours is 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.

**Microbiology Concentration**

HSCI 3320/3321	General Microbiology	4
HSCI 3510	Pathogenic Microbiology	3
HSCI 3540	Immunology	3
HSCI 4607	Bacterial Physiology	3
HSCI 4770/4771	Virology/Virology Lab	4
BIOL 3100	General Genetics	3
BIOL 4167/4177	Biochemistry of Metabolism	5
HSCI Electives		6

The American Society for Microbiology (ASM) program certification requires that the student have at least 20 semester 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.

**Medical Technology Concentration** – Students may become eligible for a national certification examination (registry) and also the bachelor of science in health sciences degree from ETSU by successfully completing the three-year curriculum at ETSU; by successfully completing an approved program (12 months) in a hospital school of medical technology; and by qualifying for the registry.

**Medical Technology Concentration:**

HSCI 3000	Human Anatomy	4
HSCI 3020	Human Physiology	4
HSCI 3320/3321	General Microbiology	4
HSCI 3510	Pathogenic Microbiology	3
HSCI 3540	Immunology	3

HSCI 4480*	Clinical Parasitology	4
BIOL 3100	General Genetics	3
BIOL 4167/4177	Biochemistry of Metabolism	5
*HSCI 4747 or HSCI 4770/4771 may be substituted.		

**Freshman - Fall Semester**

ENGL 1010	Critical Reading & Expository Writing	3
CHEM 1110/11	General Chemistry	4
BIOL 1110/11	Biology for Science Majors	4
MATH 1040	Precalculus	3
PSYC 1300	Introduction to Psychology	3
PHED	Lifetime	1
<b>TOTAL</b>		<b>18</b>

**Freshman - Spring Semester**

ENGL 1020	Critical Thinking/Argumentation	3
CHEM 1120/21	General Chemistry	4
BIOL 1120/21	Biology for Science Majors	4
Institutions & Society		3
CSCI 1100	Using Information Technology	3
MATH 1530	Probability & Statistics	3
<b>TOTAL</b>		<b>20</b>

**Sophomore - Fall Semester**

CHEM 2010/21	Organic Chemistry I	5
HSCI 3320/21	General Microbiology	4
HSCI 3000	Human Anatomy	4
HIST 2010	The United States to 1877	3
Heritage Elective		3
<b>TOTAL</b>		<b>19</b>

**Sophomore - Spring Semester**

CHEM 2020/21	Organic Chemistry II	5
HSCI 3510	Pathogenic Microbiology	3
HSCI 3020	Human Physiology	4
HIST 2020	The United States since 1877	3
PHED	Fitness	1
<b>TOTAL</b>		<b>16</b>

**Junior - Fall Semester**

PHYS 2010/11	General Physics	4
BIOL 4167/4177	Biochemistry of Metabolism	5
HSCI 4480	Clinical Parasitology	4
Arts & Artistic Vision		3
Identity, Ethics & Social Responsibility		3
<b>TOTAL</b>		<b>19</b>

**Junior - Spring Semester**

PHYS 2020/21	General Physics	4
CHEM 2220/21	Quantitative Analysis Lecture/Lab	4
BIOL 3100	General Genetics	3
HSCI 3540	Immunology	3
Humanities elective		3
<b>TOTAL</b>		<b>17</b>

**Senior Year**

Approved Hospital Practicum (12 months)		30
<b>Total Credit Hours</b>		<b>138</b>

Admission to the Hospital Practicum is selective based upon the number of approved positions and admission criteria establish by the hospital affiliates. Frequent advising is required, particularly to be aware of admission requirements and number of hospital schools affiliated with the ETSU program.

**Health Sciences Minor:**

HSCI 3000	Human Anatomy	4
HSCI 3020	Human Physiology	4
HSCI 3320-3321	General Microbiology	4
BIOL 4167/4177	Biochemistry of Metabolism	5
Electives		5

**Microbiology Minor:**

HSCI 3320-3321	General Microbiology	4
HSCI 3510	Pathogenic Microbiology	3
HSCI 4480	Clinical Parasitology	4
HSCI 4770	Virology	2
HSCI 3540	Immunology	3
Electives		3

**Concentration in Microbiology** – A concentration in microbiology consists of 50 semester hours in approved microbiology courses.

**Concentration In Microbiology:**

CHEM	3510/3511	Organic Chemistry I .....	5
CHEM	3520/3521	Organic Chemistry II .....	5
HSCI	3320/3321	General Microbiology .....	4
HSCI	3510	Pathogenic Microbiology .....	3
HSCI	3540	Immunology .....	3
HSCI	4607	Bacterial Physiology .....	3
HSCI	4770/4771	Virology/Virology Lab .....	4
HSCI	4480	Clinical Parasitology .....	4
HSCI	4747	Mycology .....	4
BIOL	4167/4177	Biochemistry of Metabolism .....	5
BIOL	3100	General Genetics .....	3
	Electives *	.....	7

\*(HSCI 3000, HSCI 3020, HSCI 4067, HSCI 4590, PUBH 3000, or 3080.)

**Sample Program Microbiology**

**Freshman - Fall Semester**

ENGL	1010	Critical Reading & Expository Writing .....	3
CHEM	1110/11	General Chemistry .....	4
BIOL	1110.11	Biology for Science Majors .....	4
MATH	1530	Probability & Statistics .....	3
Institutions & Society		.....	3
<b>TOTAL</b>		.....	<b>17</b>

**Freshman - Spring Semester**

ENGL	1020	Critical Thinking/Argumentation .....	3
CHEM	1120/21	General Chemistry .....	4
BIOL	1120/21	Biology for Science Majors .....	4
Institutions & Society		.....	3
CSCI	1100	Using Information Technology .....	3
<b>TOTAL</b>		.....	<b>17</b>

**Sophomore - Fall Semester**

CHEM	2010/11	Organic Chemistry .....	5
HSCI	3320/21	General Microbiology .....	4
Arts & Artistic Vision		.....	3
HIST	2010	The United States to 1877 .....	3
Heritage Elective		.....	3
<b>TOTAL</b>		.....	<b>18</b>

**Sophomore - Spring Semester**

CHEM	2020/21	Organic Chemistry .....	5
HSCI	3510	Pathogenic Microbiology .....	3
HSCI	3000	Human Anatomy .....	4
HIST	2020	The United States since 1877 .....	3
PHED		Fitness .....	1
<b>TOTAL</b>		.....	<b>16</b>

**Junior - Fall Semester**

PHYS	2010/11	General Physics .....	4
BIOL	4167/4177	Biochemistry of Metabolism .....	5
HSCI	4480	Clinical Parasitology .....	4
PHED		Lifetime .....	1
Identity, Ethics & Social Responsibility		.....	3
<b>TOTAL</b>		.....	<b>17</b>

**Junior - Spring Semester**

PHYS	2020/21	General Physics .....	4
CHEM	2220/21	Quantitative Analysis .....	4
BIOL	3100	General Genetics .....	3
HSCI	3540	Immunology .....	3
Elective		.....	3
<b>TOTAL</b>		.....	<b>17</b>

**Senior - Fall Semester**

HSCI	4747	Mycology .....	4
PUBH	3000	Biostatistics .....	3
HSCI	3020	Human Physiology .....	4
PHIL	2640	Science & Modern World .....	3
<b>TOTAL</b>		.....	<b>14</b>

**Senior - Spring Semester**

HSCI	4770/71	Virology .....	4
HSCI	4607	Bacterial Physiology .....	3
PUBH	3080	Epidemiology .....	3
Elective		.....	3
<b>TOTAL</b>		.....	<b>13</b>

**Total Credit Hours** ..... **129**

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 course work. All graduates must complete the General Education Core Requirements as listed in this catalog.

**Graduate Study** – The department also offers the M.S. in microbiology. Further information on graduate programs is contained in the Graduate Catalog.

**Programs Offered in the Department of Health Related Professions  
Elizabethton, Tennessee**

**P.O. Box 70573**

**Phone: 423/547-4900**

The Department of Health Related Professions, located at the Nave Center in Elizabethton, is a multidisciplinary department offering courses of study leading to a Bachelor of Science degree in Allied Health with concentrations in Cardiopulmonary Science 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 all programs. Students are required to attend designated consecutive semesters to complete the programs.

The number of students admitted to each of the allied health career programs is limited. There are usually more applicants than available spaces. Admission to each of the programs is based on: successful completion of the admission requirements; interview with an admissions committee composed of professionals in the appropriate field; 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. This limitation in class size and the 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 complete a Nave Center application.

**MAJOR: ALLIED HEALTH  
Bachelor of Science Degree (B.S.)**

The baccalaureate 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 Cardiopulmonary Science and Radiography. The program of study will correlate didactic and clinical instruction enabling the student to be competent in his/her 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 judgement, 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 B.S. degree is designed for students who have completed one or two years of pre-professional college work (a minimum of 40 semester hours) that includes the prerequisite courses required by the major. The allied health core consists of 36 credit hours and the professional phase (composed of the concentration and clinical practice components) of the curriculum consists of 49 credit hours for the Radiography concentration and 48 credit hours for the Cardiopulmonary Science concentration. The

baccalaureate degree in Allied Health with a Radiography concentration requires 130 credit hours and Cardiopulmonary Science requires 129 credit hours. The curriculum in each concentration's professional phase is sequential and all students must follow that schedule.

**Admission Requirements for BS**

Admission to the professional curriculum under the baccalaureate Allied Health degree is a competitive process and is entirely separate from the student's 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, a 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 May 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, applicants must meet the requirements for admission to ETSU. Prior to being admitted to the professional core, applicants must complete the following degree requirements:

1. Maintain a college GPA of 2.5 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 2.5 or better on a 4.0 scale; and,
4. Meet specific health and/or essential functions.

**Prerequisite General Education and Allied Health:** These prerequisite courses **MUST** be completed prior to enrolling in any 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 Credits ..... 24**  
**Cardiopulmonary Science Concentration Credits ..... 28**

\*Required only for Cardiopulmonary Science Concentration

**General Education Core for All Allied Health Majors**

ENGL	1010	Critical Reading & Expository Writing	3
ENGL	1020	Critical Thinking & Argumentation	3
MATH	1530	Probability & Statistics - Non-Calculus	3
CSCI	1100	Using Information Technology	3
PHED	1XXX	Fitness Activity Category	1
PHED	2XXX	Lifetime Activity Category	1
PSYC	1310	Intro to Psychology	3
HIST	2010	The United States to 1877	3

HIST	2020	The United States since 1877	3
		INST Elective	3
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
		HUMANITIES Elective	3
		ARTA Elective	3
		IDENTITY Elective	3
		HERITAGE Elective	3
		General education core credits	46

**Allied Health Core**

CHEM	1030	Introduction to Chemistry Survey	4
CSCI	1101	Spreadsheets	1
HSCI	2230	Introduction to Microbiology	3
HSCI	2231	Introduction to Microbiology Lab	1
SPCH	1300	General Speech	3
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	4000	Public Health Law	3
ENTC	4350	Biomedical Instrumentation	4
		<b>Allied Health Core Credits</b>	<b>36</b>

**Cardiopulmonary Concentration (CPSC)**

Accredited by: Commission on Accreditation of Allied Health Education Programs

The Respiratory Therapist applies scientific knowledge and theory to practical clinical problems of respiratory care. The Respiratory Therapist is 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 judgement, under the supervision of a physician in the treatment of patients with respiratory dysfunction. The Respiratory Therapist 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.

**Professional Curriculum – Cardiopulmonary Science Concentration**

CPSC	3000	Foundations of CPSC	3
CPSC	3010	Foundations of CPSC Laboratory	3
CPSC	3040	Pharmacology in CPSC	2
CPSC	3100	CPSC Critical Care	3
CPSC	3110	CPSC Critical Care Laboratory	3
CPSC	3140	CPSC Disease Pathology	2
CPSC	3150	Clinical Education I	3
CPSC	3350	Clinical Education II	4
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
PUBH 4007	Principles & Practice of Patient Ed	3
Total credit hours for Cardiopulmonary Concentration		48

**Total Credit Hours For B.S. degree in Allied Health (Cardiopulmonary) 129**

**Freshman - Fall Semester**

ENGL 1010	Critical Reading & Expository Writing	3
*MATH 1530	Probability & Statistics	3
CSCI 1100	Using Information Technology	3
*HSCI 2010/11	Anatomy & Physiology I	4
PSYC 1310	Introduction to Psychology	3
PHED 1---	Fitness Activities	1
<b>TOTAL</b>		<b>17</b>

**Freshman - Spring Semester**

ENGL 1020	Critical Thinking & Argumentation	3
*HSCI 2020/21	Anatomy & Physiology II	4
PUBH 2030	First Aid & Emergency Care	3
Elective	(Institutions & Society)	3
<b>TOTAL</b>		<b>13</b>

**Sophomore - Fall Semester**

HIST 2010	The United States to 1877	3
HSCI 2230/31	Introduction to Microbiology	4
*CHEM 1030	Introduction to Chemistry Survey	4
*ALHE 2010	Introduction to Allied Health	2
Elective	(Identity, Ethics, & Social Responsibility)	3
<b>TOTAL</b>		<b>16</b>

**Sophomore - Spring Semester**

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
PHED 2---	Lifetime activity	1
Elective (Humanities)		3
<b>TOTAL</b>		<b>17</b>

\*These prerequisite allied health courses must be completed prior to being accepted into the Cardiopulmonary Science Program in the fifth semester.

**Junior - Fall Semester**

CPSC 3000	Foundations of Cardiopulmonary Science	3
CPSC 3010	Foundations of Cardiopulmonary Science Lab	3
CPSC 3040	Pharmacology in Cardiopulmonary Science	2
SPCH 1300	General Speech	3
Elective	(Heritage)	3
Elective	(Arts & Artistic Vision)	3
<b>TOTAL</b>		<b>17</b>

**Junior - Spring Semester**

CPSC 3100	Cardiopulmonary Critical Care	3
CPSC 3110	Cardiopulmonary Critical Care Lab	3
CPSC 3150	Clinical Education I	3
PUBH 4007	Principles & Practices of Patient Education	3
PUBH 4607	Gerontology	3
<b>TOTAL</b>		<b>15</b>

**Summer Semester**

CPSC 3140	Cardiopulmonary Disease Pathology	2
CPSC 3350	Clinical Education II	4
<b>TOTAL</b>		<b>6</b>

**Senior - Fall Semester**

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 4000	Public Health Law	3
<b>TOTAL</b>		<b>15</b>

**Senior - Spring Semester**

CPSC 4200	Neonatal & Pediatric Cardiopulmonary Care	3
CPSC 4350	Clinical Education IV	3
ALHE 4070	Leadership in Allied Health	3
ENTC 4350	Biomedical Instrumentation I	4
<b>TOTAL</b>		<b>13</b>

Total Credit Hours for program 129

**Radiography Concentration (RADT)**

Accredited by: Joint Review Committee on Education in Radiologic Technology  
20 N. Wacker Drive, Suite 900  
Chicago, Illinois 60606  
(312) 704-5300

The radiography profession plays an invaluable role in the practice of medicine and encompasses a variety of specialties. This discipline provides vital information concerning structure and function of the human body, both normal and abnormal, enabling physicians to make accurate diagnoses in care and treatment. The radiographer calculates correct technical exposure factors, positions the patient, practices radiation protection, evaluates radiographs for technical quality, assumes care for the physical and psychological needs of the patient during procedures, and assists physicians in the performance of medical imaging procedures.

Upon successful completion of the requirements for the Radiography concentration, students are eligible to apply for admission to sit for the American Registry of Radiologic Technologists.

**Professional Curriculum - Radiography Concentration**

RADT 3000	Image Production & Evaluation	4
RADT 3010	Radiation Physics	3
RADT 3020	Radiographic Procedures I	3
RADT 3021	Radiographic Procedures I Lab	1
RADT 3030	Radiographic Procedures II	3
RADT 3031	Radiographic Procedures II Lab	1
RADT 3040	Clinical Education I	2
RADT 3050	Clinical Education II	2
RADT 3060	Radiographic Imaging & Quality Assessment	3
RADT 3070	Radiobiology	3
RADT 4000	Clinical Education III	5
RADT 4010	Clinical Education IV	3
RADT 4020	Clinical Education V	3
RADT 4030	Radiographic Pathology	3
RADT 4040	Radiopharmaceuticals & Special Procedures	3
ENTC 4390	Medical Imaging Equipment Technology	4
ENVH 4207	Principles of Radiological Health	3

Total credit hours for Radiology Concentration 49

Total credit hours for B.S. degree in Allied Health (Radiography) 130

**Freshman - Fall Semester**

ENGL 1010	Critical Reading & Expository Writing	3
*MATH 1530	Probability & Statistics	3
CSCI 1100	Using Information Technology	3
*HSCI 2010/2011	Anatomy & Physiology I	4
PHED 1---	Fitness Activity	1
PSYC 1310	Introduction to Psychology	3
<b>TOTAL</b>		<b>17</b>

**Freshman - Spring Semester**

ENGL 1020	Critical Thinking & Argumentation	3
*HSCI 2020/2021	Anatomy & Physiology II	4
Elective	(Institutions & Society)	3
PUBH 2030	First Aid & Emergency Care	3
<b>TOTAL</b>		<b>13</b>

**Sophomore - Fall Semester**

Elective (Identity, Ethics, Social Responsibility)		3
HIST 2010	The United States to 1877	3
*HSCI 2230	Microbiology	3
*HSCI 2231	Microbiology Lab	1
*CHEM 1030	Introduction to Chemistry	4
*ALHE 2010	Introduction to Allied Health	2
<b>TOTAL</b>		<b>16</b>

**Sophomore - Spring Semester**

Elective (Humanities) .....	3
HIST 2020 The United States since 1877 .....	3
PUBH 2100 Health Care Systems .....	3
SPCH 1300 General Speech .....	3
*ALHE 2020 Patient Care & Assessment .....	3
PHED 2-- Lifetime Activity .....	1
<b>TOTAL</b> .....	<b>16</b>

\*These prerequisite allied health courses must be completed prior to being accepted into the Radiography Concentration.

**Junior - Fall Semester**

RADT 3000 Image Production and Evaluation .....	4
RADT 3010 Radiation Physics .....	3
RADT 3020 Radiographic Procedures I .....	3
RADT 3021 Radiographic Procedures I Lab .....	1
RADT 3040 Clinical Education I .....	2
Elective (Arts & Artistic Vision) .....	3
<b>TOTAL</b> .....	<b>16</b>

**Junior - Spring Semester**

RADT 3030 Radiographic Procedures II .....	3
RADT 3031 Radiographic Procedures II Lab .....	1
RADT 3050 Clinical Education II .....	2
RADT 3060 Radiographic Imaging & Quality Control .....	3
RADT 3070 Radiobiology .....	3
Elective (Heritage) .....	3
<b>TOTAL</b> .....	<b>15</b>

**Summer Term**

RADT 4000 Clinical Education III .....	5
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**Senior - Fall Semester**

ALHE 4060 Research in Allied Health .....	3
ENVH 4000 Public Health Law .....	3
RADT 4010 Clinical Education IV .....	3
RADT 4040 Radiopharmaceuticals & Special Procedures .....	3
ENTC 4390 Medical Imaging Equipment Technology .....	4
<b>TOTAL</b> .....	<b>16</b>

**Senior - Spring Semester**

ENTC 4350 Biomedical Instrumentation .....	4
RADT 4020 Clinical Education V .....	3
ENVH 4207 Principles of Radiological Health .....	3
RADT 4030 Radiographic Pathology .....	3
ALHE 4070 Leadership in Allied Health .....	3
<b>TOTAL</b> .....	<b>16</b>

**Total credit hours for program** ..... 130

**Advance Standing/Transfer Students**

Eligible graduates of accredited university, community college, or certificate programs who seek additional study in allied health at the baccalaureate level may be given advance standing through articulation agreements, comprehensive examinations, and/or validation processes governed by ETSU policies. Individuals who are interested in this process should contact the program directors of the specific allied health concentration.

**Department of Physical Therapy (PHYT)**

**P.O. 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 master's in physical therapy (M.P.T.). Students interested in applying to the graduate program should contact the department advisor for information.

**Department of Public Health (PUBH)**

**P.O. Box 70674**

**Phone: 423/439-4332**

Approved by: Society of Public Health Education/Association for the Advancement of Health Education Approval Process for Undergraduate Programs.

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; Patient Education; School Health; and Health Care Administration. 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 or school health education program concentrations are eligible to sit for the national credentialing exam - Certified Health Education Specialist (C.H.E.S.) within six months of graduation. Students completing the health 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 has 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.

Students enrolling in the Community Health concentration may elect the Interdisciplinary Rural & Community Health program option. This option focuses on work in communities through interdisciplinary projects with students from the Colleges of Medicine and Nursing over four semesters. A field placement is **not** required for students completing this option.

**General Education Requirements (for all majors)**

CSCI 1100	Using Information Technology .....	3 credits
ECON 2210	Principles of Economics I .....	3 credits
HSCI 2010/11	Anatomy & Physiology I or	
HSCI 2230/31	Introduction to Microbiology .....	4 credits
MATH 1820	Calculus for Business or	
MATH 1530	Probability and Statistics-Non-Calc. ....	3 credits
PHIL 2640	Science and the Modern World .....	3 credits
PSYC 1310	Introduction to Psychology .....	3 credits
SOAA 2020	Social Problems & Human Values .....	3 credits

Additional required general education core courses .... 32 credits

(See General Education Core Requirements) ..... 47-50 credits.

**Public Health Core (required of all majors):**

PUBH 1010	Personal Health .....	3 credits
PUBH 1020	Introduction to Public Health .....	3 credits
PUBH 2100	Health Systems .....	3 credits
PUBH 3000	Introduction to Biostatistics .....	3 credits
ENVH 3040	Environmental Sanitation .....	3 credits

PUBH 3080	Epidemiology .....	3 credits
*PUBH 4850	Field Experience or	
CUAI 4580	Student Teaching .....	12 credits
<b>Total</b>	<b>.....</b>	<b>30</b>

\*Not required for Interdisciplinary Rural & Community Health

**I. Requirements for Community Health Concentration:**

(See General Education and Public Health Core Requirements listed above)

PUBH 2750	Medical Terminology .....	3 credits
PUBH 3010	Accident Prevention .....	3 credits
PUBH 3120	Principles & Pract. of Public Hlth Ed. ....	4 credits
PUBH 3130	Principles & Methods of Public Hlth Ed. ...	3 credits
PUBH 3200	Health Services Administration .....	3 credits
PUBH 3220	Health Services Planning .....	3 credits
PUBH 3500	Consumer Health Education .....	2 credits
PUBH 4030	Community Health .....	3 credits
PUBH 4060	Comm. Org. for Hlth Ed Programs .....	3 credits
PUBH 4220	Family Health/Human Sexuality .....	2 credits
PUBH 4357	Thanatology .....	3 credits
PUBH 4607	Gerontology and Health .....	3 credits
<b>Total</b>	<b>.....</b>	<b>35 credits</b>

**Ia. Requirements for Interdisciplinary Rural & Community Health Option:**

(See General Education and Public Health Core Requirements listed above).

PUBH 2750	Medical Terminology .....	3 credits
PUBH 3010	Accident Prevention .....	3 credits
PUBH 3120	Prin & Pract of Pub Hlth Ed. ....	4 credits
PUBH 3130	Prin. & Methods of Pub. Hlth Ed. ....	3 credits
PUBH 3200	Health Services Administration .....	3 credits
PUBH 3220	Health Services Planning .....	3 credits
PUBH 3500	Consumer Health Education .....	2 credits
PUBH 4030	Community Health .....	3 credits
PUBH 4060	Comm Org for Hlth Ed Programs .....	3 credits
PUBH 4220	Family Health/Human Sexuality .....	2 credits
PUBH 4357	Thanatology .....	3 credits
PUBH 4607	Gerontology and Health .....	3 credits
IDPH 2000	Introduction to Rural Health .....	1 credit
IDPH 2005	Communication for Health Professions ...	3 credits
IDPH 2010	Rural & Community Leadership I .....	3 credits
IDPH 3010	Rural & Community Leadership II .....	3 credits
IDPH 3020	Rural & Community Leadership III .....	3 credits
IDPH 4000	Community Health Project.....	3 credits

**Total credit hours ..... 46 credits**

**II. Requirements for Health Care Administration Concentration**

(See General Education and Public Health Core Requirements listed above)

PUBH 3200	Health Services Admin .....	3 credits
PUBH 3220	Health Services Planning .....	3 credits
PUBH 3600	Quality & Util. Assessment .....	3 credits
PUBH 3950	Prin of Pub Hlth Research .....	3 credits
PUBH 4607	Gerontology & Health .....	3 credits
Electives	(Guided & General) .....	19-22 credits

**Total ..... 34-37 credits**

**Minor**

(recommended Accounting, Economics, Finance, Marketing or Management)

**Total ..... 18-21 credits**

**Minor and Electives:**

A minor in management (see Department of Management MGMT) qualifies the Health Care Administration student to sit for the Tennessee Licensing Exam for Nursing Home Administrator.

**III. Requirements for Patient Education Concentration:**

(See General Education and Public Health Core Requirements .... listed Above)

PUBH 2030	First Aid & Emerg. Care .....	3 credits
AHSC 2420	Principles of Nutrition .....	3 credits
PUBH 2750	Medical Terminology .....	3 credits
PUBH 3120	Prin & Pract of Pub Hlth Educ. ....	4 credits
PUBH 3500	Consumer Health Education .....	2 credits
PUBH 4007	Prin & Pract of Patient Educ .....	3 credits
PUBH 4220	Family Health/Human Sexuality .....	2 credits
PUBH 4357	Thanatology .....	3 credits
PUBH 4500	Pathophysiology of Disease .....	3 credits
PUBH 4937	Stress Management .....	3 credits
HDAL 4957	Human Relations & Group Processes ....	3 credits

**Total ..... 32 credits**

**IV. Requirements for School Health Concentration:**

(See General Education and Public Health Core Requirements listed above)

Students preparing for education licensure are required to include certain courses in the General Education Core. [See the Department of Curriculum and Instruction (CUAI) and the College of Education advisor.]

PUBH 2030	First Aid & Emerg. Care .....	3 credits
PUBH 2120	School Health Education .....	3 credits
AHSC 2420	Principles of Nutrition .....	3 credits
PUBH 3010	Accident Prevention .....	3 credits
PUBH 3130	Prin & Methods of Hlth Educ .....	3 credits
PUBH 3500	Consumer Health Educ .....	2 credits
PUBH 4220	Family Hlth/Human Sexuality .....	2 credits
PUBH 4357	Thanatology .....	3 credits
PUBH 4607	Gerontology & Health .....	3 credits

**Total ..... 25 credits**

**Licensure (K-12)** – Consists of 31 hours and includes the following courses: Personal Health 1010, Health Sciences 2010-11, Health Sciences 2020-21, and/or Health Sciences 2230-31, First Aid and Emergency Care 2030, Principles of Nutrition 2420, School Health 2120, Environmental Sanitation 3040, Consumer Health 3500, Thanatology 4357, Gerontology 4607, and Community Health 4030.

**Minor** – A minor in Public Health consists of 22 hours and includes Personal Health 1010, First Aid and Emergency Care 2030, School Health 2120, Microbiology 1230-31 or 3320-21, Community Health 4030, and any three of the following courses: Accident Prevention 3010, Consumer Health Education 3500, Gerontology 4607, Family Health 4220, or Thanatology 4357.

**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.

**CURRICULUM**  
**Community Health Concentration**

**Freshman - Fall Semester**

ENGL 1010	Critical Reading/Expository Writing	3
HIST 2010	The United States to 1877	3
ECON 2210	Principles of Economics I	3
SOAA 2020	Social Problems & Human Values	3
Arts & Artistic Vision	(See General Education)	3
PHED	Lifetime	1
<b>TOTAL</b>		<b>16</b>

**Freshman - Spring Semester**

ENGL 1020	Critical Thinking/Argumentation	3
PSYC 1310	Introduction to Psychology	3
HIST 2020	The United States since 1877	3
CSCI 1100	Using Information Technology	3
PHIL 2640	Science & the Modern World	3
PHED	Fitness	1
PUBH 1010	Personal Health	3
<b>TOTAL</b>		<b>19</b>

**Sophomore - Fall Semester**

MATH 1820	or 1530	3
HSCI 2010/11	Anatomy & Physiology	4
PUBH 1020	Introduction to Public Health	3
PUBH 2750	Medical Terminology	3
Minor		3
<b>TOTAL</b>		<b>16</b>

**Sophomore - Spring Semester**

Heritage	(See General Education)	3
Science	(See General Education)	4
PUBH 2100	Health Systems	3
PUBH 3500	Consumer Health Education	2
Minor		3
<b>TOTAL</b>		<b>15</b>

**Junior - Fall Semester**

PUBH 3000	Biostatistics	3
PUBH 4220	Family Health & Human Sexuality	2
PUBH 3200	Health Services Administration	3
PUBH 3120	Principles & Practices of Health Education	4
Minor		3
<b>TOTAL</b>		<b>15</b>

**Junior - Spring Semester**

PUBH 3080	Principles of Epidemiology	3
ENVH 3040	Environmental Sanitation	3
PUBH 3010	Accident Prevention	3
PUBH 3130	Principles & Methods of Health Education	3
PUBH 3220	Health Services Planning	3
Minor		3
<b>TOTAL</b>		<b>18</b>

**Senior - Fall Semester**

PUBH 4357	Thanatology	3
PUBH 4607	Gerontology	3
PUBH 4060	Community Organization	3
PUBH 4030	Community Health	3
Minor		6
<b>TOTAL</b>		<b>18</b>

**Senior - Spring Semester**

PUBH 4850	Field Experience	12
<b>TOTAL</b>		<b>12</b>

**Total Credit Hours for degree** ..... 128

**Interdisciplinary Rural and Community Health Option**

**Freshman - Fall Semester**

ENGL 1010	Critical Reading/Expository Writing	3
HIST 2010	The United States to 1877	3
ECON 2210	Principles of Economics	3
SOAA 2020	Social Problems & Human Values	3
Arts & Artistic Vision	(See General Education Core)	3
PHED	Fitness	1
<b>TOTAL</b>		<b>16</b>

**Freshman - Spring Semester**

ENGL 1020	Critical Thinking/Argumentation	3
PSYC 1310	Introduction to Psychology	3
HIST 2020	The United States since 1877	3
CSCI 1100	Using Information Technology	3
PHIL 2640	Science and the Modern World	3
PUBH 1010	Personal Health	3
PHED	Lifetime	1
<b>TOTAL</b>		<b>19</b>

**Sophomore - Fall Semester**

MATH 1820	or 1530	3
HSCI 2010/11	Anatomy & Physiology	4
PUBH 1020	Introduction to Public Health	3
PUBH 2750	Medical Terminology	3
Minor		3
<b>TOTAL</b>		<b>16</b>

**Sophomore - Spring Semester**

Heritage	(See General Education Core)	3
Science	(See General Education Core)	4
PUBH 2100	Health Systems	3
PUBH 3500	Consumer Health Education	2
Minor		3
<b>TOTAL</b>		<b>15</b>

**Junior - Fall Semester**

PUBH 3000	Biostatistics	3
PUBH 3200	Health Services Administration	3
PUBH 3120	Principles & Practices of Health Education	4
IDPH 2000	Orientation to Rural Health	1
IDPH 2005	Communication for Health Professionals	3
Minor		3
<b>TOTAL</b>		<b>17</b>

**Junior - Spring Semester**

PUBH 3080	Principles of Epidemiology	3
ENVH 3040	Environmental Sanitation	3
IDPH 2010	Rural Health and Community Leadership I	3
PUBH 3010	Accident Prevention	3
PUBH 3130	Principles & Methods of Health Education	3
Minor		3
<b>TOTAL</b>		<b>18</b>

**Senior - Fall Semester**

IDPH 3010	Rural Health & Community Leadership II	3
PUBH 4357	Thanatology	3
PUBH 4060	Community Organization	3
PUBH 4030	Community Health	3
Minor		3
<b>TOTAL</b>		<b>15</b>

**Senior - Spring Semester**

IDPH 3020	Rural Health & Community Leadership III	3
PUBH 4220	Family Health & Human Sexuality	2
PUBH 4607	Gerontology	3
PUBH 3220	Health Services Planning	3
IDPH 4000	Community Project	3
Minor		3
<b>TOTAL</b>		<b>17</b>

**Total Credit Hours for degree** ..... 132

**Health Care Administration Concentration**

**Freshman - Fall Semester**

ENGL 1010	Critical Reading/Expository Writing	3
HIST 2010	The United States to 1877	3
ECON 2210	Principles of Economics	3
SOAA 2020	Social Problems & Human Values	3
Arts & Artistic Vision	(See General Education Core)	3
PHED	Fitness	1
<b>TOTAL</b>		<b>16</b>

**Freshman - Spring Semester**

ENGL 1020	Critical Thinking/Argumentation	3
PSYC 1310	Introduction to Psychology	3
HIST 2020	The United States since 1877	3
CSCI 1100	Using Information Technology	2
PHIL 2640	Science and the Modern World	3
PHED	Lifetime	1
<b>TOTAL</b>		<b>15</b>

**Sophomore - Fall Semester**

PUBH 1010	Personal Health	3
MATH 1820	or 1530	3
HSCI 2010/11	Anatomy & Physiology	4
PUBH 1020	Introduction to Public Health	3
Elective		3
<b>TOTAL</b>		<b>16</b>

**Sophomore - Spring Semester**

Heritage	(See General Education Core)	3
Science	(See General Education Core)	4
PUBH 2100	Health Systems	3
Elective		6
<b>TOTAL</b>		<b>16</b>



**Junior - Fall Semester**

PUBH 3000	Biostatistics .....	3
PUBH 3200	Health Services Administration .....	3
PUBH 3600	Quality & Utilization Assessment .....	3
Elective	.....	3
Minor	.....	6
<b>TOTAL</b>	<b>.....</b>	<b>18</b>

**Junior - Spring Semester**

PUBH 3080	Principles of Epidemiology .....	3
PUBH 3220	Health Services Planning .....	3
PUBH 3950	Principles Public Health Research .....	3
ENVH 3040	Environmental Sanitation .....	3
Elective	.....	3
Minor	.....	3
<b>TOTAL</b>	<b>.....</b>	<b>18</b>

**Senior - Fall Semester**

PUBH 4607	Gerontology .....	3
Elective	.....	3
Minor	.....	12
<b>TOTAL</b>	<b>.....</b>	<b>18</b>

**Senior - Spring Semester**

PUBH 4850	Field Experience .....	12
<b>TOTAL</b>	<b>.....</b>	<b>12</b>
<b>Total Credit Hours for degree .....</b>		<b>129</b>

**Patient Education Concentration**

**Freshman - Fall Semester**

ENGL 1010	Critical Reading/Expository Writing .....	3
HIST 2010	The United States to 1877 .....	3
ECON 2210	Principles of Economics .....	3
SOAA 2020	Social Problems & Human Values .....	3
Arts & Artistic Vision (See General Education Core)	.....	3
PHED Fitness	.....	1
<b>TOTAL</b>	<b>.....</b>	<b>16</b>

**Freshman - Spring Semester**

ENGL 1020	Critical Thinking/Argumentation .....	3
PSYC 1310	Introduction to Psychology .....	3
HIST 2020	The United States since 1877 .....	3
CSCI 1100	Using Information Technology .....	2
PHIL 2640	Science and the Modern World .....	3
PHED Lifetime	.....	1
<b>TOTAL</b>	<b>.....</b>	<b>15</b>

**Sophomore - Fall Semester**

PUBH 1010	Personal Health .....	3
MATH 1820	or 1530 .....	3
HSCI 2010/11	Anatomy & Physiology .....	4
PUBH 1020	Introduction to Public Health .....	3
AHSC 2420	Principles of Nutrition .....	3
<b>TOTAL</b>	<b>.....</b>	<b>16</b>

**Sophomore - Spring Semester**

PUBH 2030	First Aid & Emergency Care .....	3
Heritage	(See General Education Core) .....	3
Science	(See General Education Core) .....	4
PUBH 2100	Health Systems .....	3
Minor	.....	3
<b>TOTAL</b>	<b>.....</b>	<b>16</b>

**Junior - Fall Semester**

PUBH 3000	Biostatistics .....	3
PUBH 3120	Principles & Practices of Public Health Education .....	4
PUBH 3500	Consumer Health Education .....	2
PUBH 4220	Family Health & Human Sexuality .....	2
Minor	.....	6
<b>TOTAL</b>	<b>.....</b>	<b>17</b>

**Junior - Spring Semester**

PUBH 3080	Principles of Epidemiology .....	3
PUBH 2750	Medical Terminology .....	3
ENVH 3040	Environmental Sanitation .....	3
PUBH 4500	Pathophysiology of Disease .....	3
PUBH 4937	Stress Management .....	3
Minor	.....	3
<b>TOTAL</b>	<b>.....</b>	<b>18</b>

**Senior - Fall Semester**

PUBH 4357	Thanatology .....	3
PUBH 4007	Principles & Practices of Patient Education .....	3
HDAL 4957	Human Relations & Group Process .....	3
Minor	.....	9
<b>TOTAL</b>	<b>.....</b>	<b>18</b>

**Senior - Spring Semester**

PUBH 4850	Field Experience .....	12
<b>TOTAL</b>	<b>.....</b>	<b>12</b>
<b>Total Credit Hours for degree .....</b>		<b>128</b>

**School Health Concentration**

**Freshman - Fall Semester**

ENGL 1010	Critical Reading/Expository Writing .....	3
HIST 2010	The United States to 1877 .....	3
ECON 2210	Principles of Economics .....	3
SOAA 2020	Social Problems & Human Values .....	3
Arts & Artistic Vision (See General Education Core)	.....	3
PHED Fitness	.....	1
EDFN 2100	Orientation to Profession of Education .....	1
<b>TOTAL</b>	<b>.....</b>	<b>17</b>

**Freshman - Spring Semester**

ENGL 1020	Critical Thinking/Argumentation .....	3
PSYC 1310	Introduction to Psychology .....	3
HIST 2020	The United States since 1877 .....	3
CSCI 1100	Using Information Technology .....	2
PHIL 2640	Science and the Modern World .....	3
PHED Lifetime	.....	1
EDFN 2300	Foundations for Teaching .....	3
<b>TOTAL</b>	<b>.....</b>	<b>18</b>

**Sophomore - Fall Semester**

PHIL 2020	or 2040 .....	3
Heritage	(See General Education Core) .....	3
Science	(See General Education Core) .....	4
MATH 1820	or 1530 .....	3
PUBH 1020	Introduction to Public Health .....	3
PUBH 3500	Consumer Health Education .....	2
<b>TOTAL</b>	<b>.....</b>	<b>18</b>

**Sophomore - Spring Semester**

PUBH 1010	Personal Health .....	3
PUBH 2030	First Aid & Emergency Care .....	3
HDAL 2310	Developmental Lifespan Psychology .....	3
PUBH 2120	School Health Education K-12 .....	3
PUBH 2100	Health Systems .....	3
AHSC 2420	Principles of Nutrition .....	3
<b>TOTAL</b>	<b>.....</b>	<b>18</b>

**Junior - Fall Semester**

PUBH 3000	Biostatistics .....	3
HSCI 2010/11	Anatomy & Physiology .....	4
PUBH 3130	Principles & Methods of Health Education .....	3
HDAL 3310	Educational Psychology .....	3
EDFN 3301	Issues in Education .....	3
<b>TOTAL</b>	<b>.....</b>	<b>16</b>

**Junior - Spring Semester**

PUBH 3080	Principles of Epidemiology .....	3
ENVH 3040	Environmental Sanitation .....	3
PUBH 3010	Accident Prevention .....	3
SPED 2300	Exceptional Learners in Schools & Comm. .....	3
MEDA 3570	Educational Technology .....	3
<b>TOTAL</b>	<b>.....</b>	<b>15</b>

**Senior - Fall Semester**

PUBH 4357	Thanatology .....	3
PUBH 4220	Family Health & Human Sexuality .....	2
PUBH 4607	Gerontology .....	3
READ 4437	Reading Instruction in Middle & Secondary Schools .....	3
CUAI 4417	Secondary School Curriculum & Methodology .....	3
CUAI 4427	Secondary School Curriculum & Meth. Field Exper. .....	1
<b>TOTAL</b>	<b>.....</b>	<b>15</b>

**Senior - Spring Semester**

CUAI 4580	Student Teaching .....	12
EDFN 4581	Seminar in Education .....	3
<b>TOTAL</b>	<b>.....</b>	<b>15</b>
<b>Total Credit Hours for degree .....</b>		<b>132</b>

## 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 Education (Ed.D.) and the Doctor of Philosophy (Ph.D.) degrees. In addition to these degree programs, ETSU offers four graduate certificates: Business Administration, Gerontology, Health Care Management, and Advanced Nursing Practice.

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 Liaisons

Each graduate program or major is represented by a Graduate Liaison 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 Liaison listed below:

Robin O'Dell  
(423)439-6148

odell@etsu.edu

Non-Degree Students, Counseling, Early Childhood Education, Elementary and Secondary Education, MAT, Media Services, Physical Education, Reading/Storytelling, and Special Education

Mary Duncan  
(423)439-4302

duncanm@etsu.edu

Biomedical Sciences, Communicative Disorders, Environmental Health, Nursing, Physical Therapy, Public Health, and three certificate programs: Advanced Nursing Practice, Gerontology and Health Care Management

Judy Lawson  
(423)439-6590

lawsonj@etsu.edu

MBA, Accountancy, City Management, Public Management, all degrees in Educational Leadership and Policy Analysis, and the Certificate in Business Administration

Kathleen Cureton  
(423)439-4703

cureton@etsu.edu

Art, Biology, Chemistry, Clinical Nutrition, Computer Science, Criminal Justice, English, History, Mathematics, Microbiology, Music Education, Professional Communication, Psychology, Sociology and Anthropology, Technology, and the Master of Arts in Liberal Studies

### 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 920 Maple Street, and will be mailed on request. Electronic applications are available at the Graduate School web site:

<http://www.etsu.edu/gradstud/gradad.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 semester 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](mailto: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:

<http://www.etsu.edu/reg/grad-cat-index.htm>

## Course Listing

Abbrev.	Description	Abbrev.	Description
ACCT	Accountancy	JAPN	Japanese
ADVR	Advertising	JOUR	Journalism
AFAM	African & African American	LANG	Foreign Languages
AHSC	Applied Human Sciences	LATN	Latin
ALHE	Allied Health	MATH	Mathematics
ALNU	Adult Nursing	MCOM	Mass Communications
APST	Appalachian Studies	MEDA	Educational Media & Educational Technology
ARTA	Art and Design	MGMT	Management
ASTR	Astronomy	MKTG	Marketing
BADM	Business Administration	MSCI	Military Science
BGSD	General Studies	MUSC	Music
BIOL	Biological Sciences	PEXS/PHED	Physical Education, Exercise, & Sport Sciences
CDIS	Communicative Disorders	PHIL	Philosophy
CHEM	Chemistry	PHYS	Physics
CJCR	Criminal Justice & Criminology	PMNU	Professional Roles/Mental Health Nursing
CPSC	Cardiopulmonary Science	PSCI	Political Science
CSCI	Computer & Information Sciences	PSYC	Psychology
CUAI	Curriculum and Instruction	PUBH	Public Health
DHYG	Dental Hygiene	IDPH	Interdisciplinary Public Health
DIGM	Digital Media	PUBR	Public Relations
DSPW	Developmental English	RADT	Radiologic Technology
DSPM	Developmental Mathematics	READ	Reading
DSPR	Developmental Reading	RTVF	Radio/Television/Film
DSPS	Study Skills	RUSS	Russian
ECON	Economics	SALM	Sports and Leisure Management
EDFN	Foundations of Education	SCED	Science Education
ENGL	English	SOAA	Sociology and Anthropology
ENTC	Technology	SOWK	Social Work
ENVH	Environmental Health	SPAN	Spanish
FCNU	Family/Community Nursing	SPCH	Speech
FNCE	Finance	SPED	Special Education
FREN	French	SURV	Surveying and Mapping Science
GEOG	Geography	THEA	Theatre
GEOL	Geology	URBS	Urban Studies
GERM	German	WMST	Women's Studies
HDAL	Human Development & Learning		
HIST	History		
HSCI	Health Sciences		
HUMT	Humanities		

## 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 3000- and 4000-level (upper division) College of Business courses must have junior or senior standing.

**ACCT 2010. Principles of Accounting I (3 credits)**— *Prerequisite:* 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:* ACCT 2010. A continuation of ACCT 2010 and 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)** — *Prerequisites:* A minimum grade of "C" (2.0) in ACCT 2010 and 2020; 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)**— *Prerequisites:* A minimum grade of "C" (2.0) in ACCT 2010 and 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)** — *Prerequisites:* ACCT 3000 and 3010 with a minimum grade of "C" (2.0) and admission to a major. 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)** — *Prerequisites:* 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)**— *Prerequisites:* 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)** — *Prerequisites:* 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:* ACCT 3020 and admission to a major. A study of leases, pension, 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)** — *Prerequisites:* ECON 3088 and admission to the College of Business Honors Program. A seminar for College of Business 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 faculty.

**ACCT 4127/5127. Cost Accounting II (3 credits)** — *Prerequisite:* ACCT 3110. A study of cost accounting emphasizing managerial cost information for forecasting, planning, control, and behavioral factors.

**ACCT 4310. Accounting Information Systems (3 credits)** — *Prerequisites:* ACCT 3020 and 3110; CSCI 1100; MGMT 3220 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:* ACCT 3410. 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:* 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)** — *Prerequisites:* ACCT 3020 and 4310 and admission to a major. (May be taken concurrently with 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:* ACCT 4610 or equivalent. A continuation of ACCT 4610 with emphasis on the uses of statistical sampling, auditing EDP systems, analytic review techniques and objectives, and methodology of operational auditing.

**ACCT 4707/5707. Financial Accounting Standards (3 credits)** — *Prerequisite:* ACCT 3020 or equivalent. A basic study of authoritative financial accounting literature including the rationale for topical inclusion, an evaluation of the propriety of the authoritative pronouncements, and possible future developments.

**ACCT 4710. Not-for-Profit Entity Accounting (3 credits)** — *Prerequisite:* ACCT 3020 and admission to a major. Theory, concepts, organization and functions of not-for-profit entity accounting units; an intensive study of accounting, budgeting, financial processes, reporting, and auditing in the not-for-profit entity environment.

**ACCT 4900. Independent Study in Accountancy (1-3 credits)** — 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. Prior departmental and college approval is needed.

**ACCT 4905. Accountancy Internship (3 credits)** — *Prerequisites:* Must have completed a minimum of six semester credits at the upper division level in the student's major. Junior or senior standing and a GPA of 2.7 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.

**ACCT 4957/5957. Topics in Accountancy (3 credits)** — *Prerequisites:* 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 prerequisites see the *Graduate Catalog*.

ACCT 5000.	Essentials of Accounting	(3 credits)
ACCT 5010.	Seminar in Financial Accounting I	(3 credits)
ACCT 5020.	Seminar in Financial Accounting II	(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 5610.	Seminar in Auditing	(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)** — *Prerequisites:* 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:* ADVR 2600 or 3240. The role of the radio and television industry as an advertising medium with a study of its organization, its agencies and principles, and practices in the techniques of advertising campaigns.

**ADVR 3270. Advertising Media Planning (3 credits)** — *Prerequisite:* 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)** — Cross-listed with MKTG 3750. *Prerequisite:* 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. (Students cannot receive credit for both ADVR 3750 and MKTG 3750.)

**ADVR 4080. Advertising Internship (3 credits)** — *Prerequisite:* Permission of instructor. Supervised professional experience in advertising.

**ADVR 4101. Topics in Advertising (2-6 credits)**

**ADVR 4250. Advertising Agency Management (3 credits)** — *Prerequisite:* 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 Studies in Advertising (1-3 credits)**

**Graduate Course Listing**

For descriptions and prerequisites see the *Graduate Catalog*.

ADVR 5105. Topics in Advertising (2-6 credits)  
ADVR 5900 Independent Study in Advertising (1-3 credits)

**African & African American  
AFAM**

**AFAM 3989. Cooperative Education (3 credits)** — *Prerequisite:* Permission of program advisor. May not be repeated for credit. Planned and supervised employment which is related to African/African-American Studies.

**AFAM 3999. Cooperative Education (3 credits)** — *Prerequisite:* Permission of program advisor. May not be repeated for credit. An extension of a planned and supervised employment which is related to African/African-American Studies.

**AFAM 4900. Special Studies (3 credits)** — *Prerequisite:* Permission of program advisor. May provide credit for an approved travel-study program or an approved program of independent study. Designed to afford opportunities for study not provided for in regular course offerings for undergraduates.

**AFAM 4950. Senior Seminar (3 credits)** — *Prerequisites:* SOAA 3110 and a total of 12 credits 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.

**Applied Human Sciences  
AHSC**

**AHSC 1038. Honors Orientation Seminar (1 credit)** — *Prerequisites:* Admission to College of Applied Science 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.

**AHSC 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.

**AHSC 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.

**AHSC 1510. Career Management in Applied Human Sciences (3 credits)** — *Prerequisite:* Freshman standing or permission of instructor. Introduction to the development, scope, and characteristics of career opportunities addressed in the Department of Applied Human Sciences curriculum and professional organizations. Emphasis on goal setting, decision making, and resource management as applied to personal and professional lives. Required of all first semester AHSC freshmen.

**AHSC 1620. Introduction to Contemporary Interiors (3 credits)** — *Corequisite:* Concurrent enrollment with ARTA 1110. 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.

**AHSC 1621. Design Communications: Studio I (3 credits)** — *Corequisite:* Concurrent enrollment with ENTC 2410. Introduction to the terminology and symbols used in interior design. Students develop floor plans, sections, 3-D models and paraline drawings to communicate ideas.

**AHSC 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.

**AHSC 2038. Honors Professional Ethics (3 credits)** — *Prerequisites:* Admission to College of Applied Science 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.

**AHSC 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.

**AHSC 2120. Foundations of Early Childhood Development (3 credits)** — Permission of education professional advisor must be obtained for all TRED and ECDV majors. 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, needs of young children, program differentiation, and future trends.

**AHSC 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.

**AHSC 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.

**AHSC 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.

**AHSC 2611. Kitchen and Bath Planning (3 credits)** — *Prerequisites:* AHSC 1620, 1621 and ARTA 1110. *Corequisite:* Concurrent enrollment with AHSC 3615. Integration of body measurements, movements, sensory mechanisms, and aesthetic considerations into supportive and attractive furnishings, equipment, accessories, and lighting in kitchen and bath settings.

**AHSC 2620 Design for Human Behavior (3 credits)** — *Prerequisite:* AHSC 1621 and ARTA 1110. 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.

**AHSC 2630. Presentation: Studio II (3 credits)** — *Prerequisites:* AHSC 1620, 1621 and ARTA 1110 or 1204; or consent of instructor. Etching, simulation, display, photography, and other visual techniques to convey design concepts.

**AHSC 2989-99. Cooperative Education (1-3, 1-3 credits)**

**AHSC 3030. Technical Communication (3 credits)** — *Prerequisites:* ENGL 1010 and 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.

**AHSC 3048. Honors Methods of Research (3 credits)** — *Prerequisite:* Admission to College of Applied Science and Technology or University Honors Program. Analysis of the materials and methods of research appropriate to Applied Science and Technology.

**AHSC 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.

**AHSC 3120. Computers and Technology in Early Childhood (1 credit)** — *Prerequisite:* 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.

**AHSC 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.

**AHSC 3210. Apparel Quality Analysis (4 credits)** — *Prerequisite:* AHSC 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.

**AHSC 3220. Textiles (I) (3 credits)** — *Prerequisites:* BIOL 1010/1011 and BIOL 1020/1021 or CHEM 1110/1111 and Chem 1120/1121 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.

**AHSC 3221. Textiles (II) (3 credits)** — *Prerequisite:* AHSC 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.

**AHSC 3230. Fashion Fundamentals (3 credits)** — *Prerequisite:* 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.

**AHSC 3420. Nutrition Throughout the Lifecycle (3 credits)** — *Prerequisite:* AHSC 2420. An in-depth discussion of nutritional needs throughout the lifecycle with special emphasis on pregnancy, lactation, infancy, childhood, adolescence and during aging. Specific attention will be given to nutritionally related problems seen in these periods, including the premature infant and the pregnant adolescent.

**AHSC 3430. Community Nutrition (3 credits)** — *Prerequisite:* AHSC 2420. Current trends in nutrition programs on the local, state, federal, and international levels and methods used to survey populations. Food practices of subcultures within the U.S. and their nutritional impact.

**AHSC 3460. Experimental Food Science (4 credits)** — *Prerequisites:* AHSC 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.

**AHSC 3465. Human Nutrition and Metabolism (3 credits)** — *Prerequisite:* AHSC 2420. *Corequisites:* HSCI 3020 or equivalent, BIOL 3000/01 or equivalent. A study of the digestion, absorption, metabolism, storage, and excretion of nutrients with emphasis on the adult stage of the life cycle.

**AHSC 3610. Historical Interiors (3 credits)** — *Prerequisite:* AHSC 1620, 1621 and ARTA 1110 or 1204. A historical survey of interiors from antiquity through contemporary, emphasizing the influence on today's interiors. Project.

**AHSC 3615. Space Planning: Studio III (3 credits)** — *Prerequisite:* AHSC 1620, 1621, and 2630. *Corequisite:* Concurrent enrollment with AHSC 2611. Application of the space planning process to meet codes, standards, and program requirements for interior spaces up to 10,000 square feet.

**AHSC 3621 Residential Design and Housing (3 credits)** — *Prerequisites:* AHSC 2611, 2630, & 3615. Advanced residential design and housing issues.

**AHSC 3630. Advanced Lighting (3 credits)** — *Prerequisite:* AHSC 2611. Concurrent registration with AHSC 4611. Advanced study of lighting for various non-residential applications. Emphasis on selection criteria and effects.

**AHSC 3650. Contract Design (3 credits)** — *Prerequisites:* ENTC 2410 and 2160; AHSC 3621. Concurrent registration with AHSC 4610 and instructor approval. Laws, codes, standards, and specifications relative to nonresidential interiors.

**AHSC 3989-99 Cooperative Education (1-3, 1-3 credits)**

**AHSC 4018. Honors Thesis (3 credits)** — *Prerequisites:* 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.

**AHSC 4048. Honors International Study (3 credits)** — *Prerequisites:* 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 re-tour orientation.

**AHSC 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.

**AHSC 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.

**AHSC 4167/5167. Student Teaching: Pre-K to K (6 credits)** — A supervised 150-credit practicum in an approved early childhood program. Seminars will be held to coordinate and evaluate experience. (Must be taken with HDAL 4617 Early Childhood Practicum.)

**AHSC 4217/5217. Furniture Marketing (3 credits)** — *Prerequisite:* Senior level. An overview of all aspects of furniture marketing in the United States. This course is designed to give the student a foundation in furniture marketing from the perspective of both the furniture manufacturer and the furniture retailer.

**AHSC 4220. Fashion Merchandising (3 credits)** — *Prerequisite:* AHSC 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.

**AHSC 4225. Merchandising Planning and Control (3 credits)** — *Prerequisite:* AHSC 4220 and MATH 1530, 1820, 1840, or 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.

**AHSC 4230. Merchandise Buying (3 credits)** — *Prerequisites:* AHSC 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.

**AHSC 4240. Visual Merchandising (3 credits)** — *Prerequisites:* ARTA 1110 and 1140, and AHSC 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.

**AHSC 4250. Advertising and Promotion (3 credits)** — *Prerequisite:* AHSC 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.

**AHSC 4257/5257. Merchandising Study Tour (1-3 credits)** — *Prerequisites:* AHSC 3230 and 4220. 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.

**AHSC 4260. Merchandising Seminar (3 credits)** — *Prerequisites:* AHSC 3230 and 4220 and departmental approval. A capstone course is 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.

**AHSC 4261. Merchandising Internship (3 credits)** — *Corequisite:* AHSC 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.

**AHSC 4330. Management of Family Material Resources (3 credits)** — 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.

**AHSC 4417/5417. Food Systems Operations (3 credits)** — *Corequisite:* AHSC 3460. Operational, financial, and quality control of institutional food services with emphasis on computer-assisted food service management.

**AHSC 4427/5427. Diet in Disease (I) (3 credits)** — *Prerequisites:* AHSC 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.

**AHSC 4437/5437. Diet in Disease (II) (3 credits)** — *Prerequisite:* AHSC 4427/5427 or departmental approval. A continuation of Diet in Disease (I) with emphasis on the principles of clinical nutrition and their application in prevention and treatment of disease, drug-nutrient interactions, nutritional assessment, and nutritional support.

**AHSC 4447/5447. Advanced Nutrition (3 credits)** — *Prerequisites:* AHSC 3465, BIOL 3000/01 or equivalent, HSCI 3020 or equivalent. 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.

**AHSC 4457/5457. Nutrition Education (3 credits)** — *Prerequisites:* AHSC 3430, 3465 or departmental approval. Nutrition education designed for elementary, middle, and high school teachers, and others involved in nutrition. Nutrition concepts will be integrated with examples of instructional techniques to make nutrition challenging. Individual curriculum plans will be developed for integrating nutrition education with other school subjects, K-12.

**AHSC 4467/5467. Quantity Food Procurement and Production (4 credits)** — *Corequisite:* AHSC 3460. Application of quantity food procurement, production planning, preparation and evaluation in institutional settings; use and care of large equipment; and use of standardized recipes. Structured laboratory experience included.

**AHSC 4480. Food Systems Management Internship (3 credits)** — *Prerequisites:* Must have completed a minimum of 12 semester credits at the upper-division level in the Food Systems Management emphasis. Senior standing and a GPA of 3.0 or above. Requires departmental approval. Students are selected through a competitive process for assignments in approved business of public-sector organizations as interns under the supervision of the field study coordinator. Students may not earn more than three semester credits for this course. This course will substitute for three semester credits of required field study (AHSC 4537). This course may be used as a free elective.

**AHSC 4487/5487. Nutrition and Disease Prevention (3 credits)** — *Prerequisite:* AHSC 4427 and 4447. A study of nutrition and its relation to prevention of chronic diseases. A review of the current scientific literature and research related to the etiological factors in the development of degenerative diseases such as cardiovascular disease, cancers, and osteoporosis.

**AHSC 4497/5497. Administration of Food Service Organizations (4 credits)** — *Prerequisites:* AHSC 1410, 2420 or departmental approval, and junior standing. Decision making, management, organization, staffing, and administration of institutional food service operations with an emphasis on computer-assisted food service management and food service layout and design.

**AHSC 4517/5517. Demonstration Techniques (3 credits)** — *Prerequisite:* Senior standing. Application of the principles and techniques involved in demonstrations and presentations.

**AHSC 4520. Senior Seminar (3 credits)** — *Prerequisite:* Senior standing. Examine the scope of family and consumer science as dynamic professions, which integrate diverse occupational specializations to meet the changing needs of individuals and families. Development of job search skills. Study public policy affecting families and ways to affect change. Required of all majors.

**AHSC 4537/5537. Field Studies (3-9 credits)** — *Prerequisite:* Senior standing and departmental approval. Supervised field studies in student's major area of interest.

**AHSC 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.

**AHSC 4610. Health Care Studio IV (3 credits)** — Concurrent registration with AHSC 3650, 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.

**AHSC 4611. Hospitality: Studio V (3 credits)** — *Prerequisites:* AHSC 4610, concurrent registration with AHSC 3630, and departmental approval. Complex problem-solving in hospitality design. Involvement with historic rehabilitation or preservation, government policies and/or community issues.

**AHSC 4615. Professional Practices in Interior Design (3 credits)** — Concurrent registration with AHSC 3650, 4610, or departmental approval. Professional business practices, contracts, ethics, responsibilities, liabilities, etc. Introduction to professional organizations, markets, and financial services. Employment practices.

**AHSC 4657/5657. Architectural Study Tour (1 - 3 credits)** — *Prerequisites:* Six hours earned in AHSC 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.

**AHSC 4717/5717. Vocational Family and Consumer Services Curriculum (3 credits)** — *Prerequisites:* Admission to teacher education or permission of department. A comprehensive overview of family and consumer sciences education programs and their place within the total school curriculum. Emphasis will be placed on the organization and administration of family and consumer sciences education programs. Students will be provided experiences in curriculum development, as well as program planning.

**AHSC 4727/5727. Methods for Vocational Family and Consumer Sciences Education (3 credits)** — *Prerequisite:* AHSC 4717. Emphasis given to program planning, methodology, teaching strategies, and techniques for family and consumer sciences education. Evaluation of teaching-learning process, as well as total program evaluation.

**AHSC 4737/5737. Occupational Family and Consumer Sciences Programs (3 credits)** — *Prerequisites:* AHSC 4727, and departmental approval. A comprehensive overview of occupational family and consumer sciences programs including: legislation and funding, labor laws, curriculum development, components of programs, HERO, advisory committees, placement and follow-up, program evaluation, and resource materials. This course is required for Occupational Home Economics Endorsements # 453, 451, 452, and 453.

**AHSC 4900. Independent Studies (1-9 credits)** — *Prerequisites:* Permission of department chair and instructor.

**AHSC 4957/5957. Special Topics in Applied Human 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.

**AHSC 4989-99. Cooperative Education (1-3, 1-3 credits)**

#### Graduate Course Listing

For descriptions and Prerequisites see the *Graduate Catalog*.

AHSC 5410. Seminar in Nutrition	(1 credit)
AHSC 5420. Maternal-Child Nutrition	(3 credits)
AHSC 5421. Lifespan Nutrition Practicum (I)	(2 credits)
AHSC 5422. Lifespan Nutrition Practicum (II)	(2 credits)
AHSC 5423. Lifespan Nutrition Practicum (III)	(2 credits)
AHSC 5430. Complex Adult Nutritional Care	(3 credits)
AHSC 5431. Medical Nutrition Therapy Practicum (I)	(2 credits)
AHSC 5432. Medical Nutrition Therapy Practicum (II)	(2 credits)
AHSC 5433. Medical Nutrition Therapy Practicum (III)	(2 credits)
AHSC 5450. Advanced Nutrition Therapy	(3 credits)
AHSC 5451. Nutrition & Food Systems Management Practicum (I)	(2 credits)
AHSC 5452. Nutrition & Food Systems Management Practicum (II)	(2 credits)
AHSC 5453. Nutrition & Food Systems Management Practicum (III)	(2 credits)
AHSC 5460. Capstone Research Project	(3 credits)
AHSC 5900. Independent Study	(1-9 credits)
AHSC 5960. Thesis	(1-3 credits)
AHSC 5990. Readings & Research	(3 credits)

#### 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:* 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:* Permission of instructor. This course is intended to enhance the allied health practitioner's skills in the development and interpretation of research. Discussions will be conducted 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:* ALHE 4060 or permission of instructor. This course provides a historical prospective of leadership theory. Various models will be discussed to allow the students to develop their personal leadership style. An analysis of trends in motivational studies, conflict resolution, and organizational change will be conducted. Professional specific knowledge will be reviewed to assure students transition into the health care system. Basic issues concerning human resource management will be included.

#### Adult Nursing ALNU

**ALNU 3000. Pathophysiology: Concepts of Disease Process (3 credits)** — *Prerequisites:* HSCI 3000 or HSCI 2010/11 & HSCI 2020/21, HSCI 3020. This course examines the pathophysiology of disease processes throughout the life span. Alterations in the mechanisms of inflammation, immunity, patency, sensory-motor, regulatory, and cellular development that result in disease are presented.

**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)** — *Prerequisites:* HSCI 3000 or HSCI 2010/11 & HSCI 2020/21, HSCI 3020. 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 3020. Foundation of Nursing Skills (3 credits)** — *Prerequisites:* PMNU 2020, 2310, FCNU 2010, 2030. 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 3021. Adult and Family Care I (5 credits)** — *Prerequisites:* PMNU 2020, 2310, FCNU 2010, 2030. *Pre- or corequisites:* ALNU 3000, 3010, 3020. This course focuses on the development of nursing skills that meet a variety of client needs. The student will be expected to utilize the concepts of caring, nursing process, critical thinking, and communication in the provision of nursing care to adults who have diverse health care needs.

**ALNU 3170. Transition to Professional Practice for Licensed Practical Nurses (3 credits)** — *Prerequisites:* FCNU 2010, 2030, PMNU 2020. *Pre-corequisites:* ALNU 3000 & 3010, FCNU 3030. 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 4000. Care of the Middle Aged Adult (4 credits)** — *Prerequisite:* FCNU 3051, or permission of the department. Content of this course covers the care of the adult between the ages of 30 and 65 with emphasis on commonly occurring acute and chronic health problems. Nursing interventions to reduce risk, promote and restore health and to assist clients in adapting to chronic conditions are explored in varied environments.

**ALNU/FCNU/PMNU 4008. Honors Mentorship in Nursing (1 credit)** — may be taken twice for credit. *Prerequisite:* Acceptance into the College of Nursing Honors Program. An individualized course in which the student collaborates with a mentor to create a program of learning that supports academic and professional goals.

**ALNU 4010. Gerontological Nursing (3 credits)** — *Prerequisite:* Completion of 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)** — *Prerequisites:* Admission to the College of Nursing Honors 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 4020. Care of Older Adults (2 credits)** — *Prerequisite:* FCNU 3051. Content of this course focuses on the care of the older adult experiencing commonly occurring health problems. The course emphasizes promotion of health, restoration, and rehabilitation for the older adult and palliative measures for the dying client.

**ALNU 4021. Adult and Family Care III (8 credits)** — *Pre or corequisites:* ALNU 4000, 4020. This course focuses on the physical and behavioral health care of middle-aged and older adults with complex health problems. Diverse settings are used to plan, evaluate, and manage complex nursing care.

**ALNU 4030. Nursing Process and Research in Adult Care (3 credits)** — *Prerequisite:* FCNU 3060 or equivalent. This course introduces theory, research, and practice concepts pertaining to middle-aged and older adults.

**ALNU 4300. Skills Validation (1 credit)** — *Prerequisite:* Admission to the nursing major. Selected clinical skills will be reviewed and validated specific to the students' 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:* 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 (3 credits)** — *Prerequisite:* 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 Prerequisites see the *Graduate Catalog*.

ALNU 5009.	Health Assessment Throughout the Life Span	(3 credits)
ALNU 5010.	Health Assessment Practicum	(3 credits)
ALNU 5011.	Life Span Assessment and Clinical Management: Young & Middle Adults	(2 credits)
ALNU 5012.	Life Span Assessment and Clinical Management: Young & Middle Adult Practicum	(3 credits)
ALNU 5013.	Life Span Assessment and Clinical Management: Older Adults	(2 credits)
ALNU 5014.	Life Span Assessment and 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 5900.	Independent Study	(1-3 credits)
ALNU 5960.	Thesis	(1-6 credits)
ALNU 5990.	Readings & Research	(1-3 credits)

### Appalachian Studies APST

**APST 2060. Introduction to Appalachian Studies (3 credits)** — An introduction to the study of the Appalachian region, focusing on the idea of Appalachia in American and world consciousness and its treatment in the social sciences, media, literature, and the arts. Required for Appalachian Studies minor.

**APST 4957/5957. Appalachian, Scottish, & 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 1970s. 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:* ARTA 1110 or 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 stress the use of a problem-solving structure.

**ARTA 2010. Art History Survey I (3 credits)** — A survey of world 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)** — *Prerequisites:* ARTA 1110, 1140, 1201, 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. Non-objective and abstract problems will be included. Development of individual responses will be encouraged.

**ARTA 2020. Art History Survey II (3 credits)** — A survey of world architecture, sculpture, and painting in the Western world from the Italian Renaissance to the present.

**ARTA 2051. Foundations in Painting (3 credits)** — *Prerequisite:* AT 1110, 1140, 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. Jewelry and Metalsmithing (3 credits)** — *Prerequisite:* ARTA 1140 or permission of instructor. Basic techniques and concepts of jewelry design and construction.

**ARTA 2091. Intro to Ceramics (3 credits)** — *Prerequisite:* ARTA 1110, 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:* ARTA 1110, 1140, 1201, 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)** — A survey of printmaking, materials, and processes (relief and screen process) with emphasis on the visual quality of the work produced.

**ARTA 2401. Commercial Art (3 credits)** — *Prerequisite:* ARTA 1110, 1140 Basic Design, 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:* 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 2957. Topics in Art (1-6 credits)**

**ARTA 2989. Cooperative Education (1-3 credits)**

**ARTA 3010. Advanced Drawing (3 credits)** — *Prerequisite:* ARTA 2012 or 2020 or permission of instructor. A visual investigation of advanced concepts in drawing with further exploration of traditional and non-traditional 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:* 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/craftsmanship, experimentation, color and design.

**ARTA 3072. Intermediate Weaving III (3 credits)** — *Prerequisite:* ARTA 2071 and 3071 or by permission of the instructor. This course explores the image-making potential of the woven textile; including inlay, tapestry, 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 is placed on the development of technical skills, form and concept.

**ARTA 3081, 3082. Jewelry and Metalsmithing (3,3 credits)** — *Prerequisite:* ARTA 2081 or permission of instructor. Intermediate techniques including: fabrication, stone setting, casting, forging, raising, and jewelry design.

**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:* 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:* 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:* ARTA 2051, 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:* 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)** — An exploration of direct lithographic printing as an artist's medium.

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

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

**ARTA 3321. Art Experiences with Children (3 credits)** — *Prerequisites:* 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 artist's medium.

**ARTA 3380. Natural and Chemical Dyeing (3 credits)** — *Prerequisite:* 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.

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

**ARTA 3402. Commercial Art (3 credits)** — *Prerequisites:* ARTA 2401 and 3401. A studio course devoted to the design and preparation of two-dimensional materials for commercial reproduction.

**ARTA 3501. Intermediate Sculpture (3 credits)** — *Prerequisite:* 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 credits)** — *Prerequisite:* ARTA 2501. Continued development of sculptural techniques and concepts; students will complete several projects.

**ARTA 3601. Intermediate Photography (3 credits)** — *Prerequisite:* 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 credits)** — *Prerequisite:* 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 credits)** — *Prerequisite:* 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 credits)** — *Prerequisite:* ARTA 2401. A studio course devoted to the design and preparation of two-dimensional material for reproduction.

**ARTA 4017/5017. Classical Art (3 credits)** — A survey of the arts of Greece and Rome. (Offered in alternate years.)

**ARTA 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 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 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 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 4067/5067. Twentieth Century Art (3 credits)** — Major developments in painting and sculpture from Postimpressionism through Surrealism. (Offered in alternate years.)

**ARTA 4071. Advanced Weaving II (3 credits)**— *Prerequisites:* ARTA 2071, 3071 and 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; and professional practices within the independent studio, or for industry, will be addressed.

**ARTA 4072. Advanced Weaving III (3 credits)**— *Prerequisites:* ARTS 2071, 3071, 3072 and 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; and professional practices within the independent studio, or for industry, will be addressed.

**ARTA 4073. Fabric Design (3 credits)**— *Prerequisite:* 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 4077/5077. Contemporary Art (3 credits)**— A survey of art since 1945.

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

**ARTA 4087/5087. Oriental Art (3 credits)** — A study of the arts of India, China, and Japan. Topics vary each semester.

**ARTA 4097/5097. Art History, Theory, and Criticism (3 credits repeatable)** — An investigation of art theory and criticism in relation to the art of a particular time and place. Times and places chosen will vary, e.g., 19th century European romantic art, classic Brahmanical Hindu art, medieval sacred art, or modern symbolism.

**ARTA 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 U.S. and/or in Europe.

**ARTA 4110. Combined Media Painting (3 credits)**— *Prerequisite:* ARTA 2051, 3110 3120, or permission of the instructor. Painterly approaches to alternative methods and techniques in image-making. A focus on concept, visual communication, and craftsmanship.

**ARTA 4120. Figure Painting (3 credits)**— *Prerequisite:* ARTA 2051, 3110, 3120, 2120 or permission of the instructor. A studio course in oil painting, utilizing traditional, as well as contemporary, approaches to the human figure.

**ARTA 4201. Advanced Figure Drawing (3 credits)**— *Prerequisite:* ARTA 2120 and 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 credits)**— *Prerequisite:* ARTA 2012 or 2120 and 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)** — Advanced studio work in direct lithographic printing.

**ARTA 4217/5217. Book Arts (3 credits)** — A course exploring adhesive and non-adhesive 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)** — Advanced studio work in screen-process printing.

**ARTA 4271. Advanced Ceramics I (3 credits)**— *Prerequisites:* ARTA 2091, 3091, 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)** — *Prerequisites:* ARTA 2091, 3091, 3092, 4271. A continuation of 4271, emphasizing individual direction, expression, and work at an advanced level.

**ARTA 4273. Technical Ceramics (3 credits)**— *Prerequisites:* ARTA 2091, 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:* ARTA 3401, 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 credits)**— An advanced studio course in the design and preparation of two-dimensional material for commercial reproduction.

**ARTA. 4303. Computer Art and Design (3 credits)**— *Prerequisites:* 2401, 3401, 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, 4330. Elementary School Art (3, 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 credits)** — 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. There can be no substitute. 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 credits)**— *Prerequisite:* ARTA 3501 or 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 credits)**— *Prerequisite:* ARTA 3501 or 3502. Continued advanced work in sculpture, emphasizing personal direction and self-motivation in sculpture, both technically and conceptually.

**ARTA 4601. History of Photography (3 credits)**— Exploring the history of photography from its beginning to the present day.

**ARTA 4602. View Camera Photography (3 credits)**— *Prerequisite:* 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 view camera techniques, the zone system, and development of professional quality.

**ARTA 4603. Intro to Studio Photography (3 credits)** — *Prerequisite:* ARTA 2200, 3601, or permission of instructor. Basic studio lighting techniques. Projects concerning portrait, fashion, and product lighting. Work toward professional quality.

**ARTA 4901-4902. Independent Study in Sculpture (1-6 repeatable)**— *Prerequisite:* ARTA 3502 or 3502. Independent Studies in studio printmaking, photography, metalsmithing and 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)** — 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 4957/5957. Special Topics in Art (1-6 credits)**

**ARTA 4989. Cooperative Education (1-3 credits)**

#### Graduate Course Listing

For descriptions and Prerequisites 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 (3,3 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, 5902. Independent Studies in Graduate Art	(1-6,1-6 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 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.

### Business Administration BADM

**BADM 1130. Introduction to Business (3 credits)** — OPEN ONLY TO FIRST-YEAR AND TRANSFER 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 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.

### 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. This purpose of this course is to prepare students for learning via an electronic medium, which is rapidly becoming not only an academic requirement, but is also a requisite in the work force. The course has two major components - tips for succeeding in an online course and technical skills that you will master in order to learn asynchronously.

**BGSD 2200. Multimedia Presentations Studies for General Studies (1 credit)** — *Prerequisites:* CSCI 1100. Instruction and exercises in building presentations with MS Power Point 2000. Students will learn how to construct elements of presentations, including outlines, speaker notes, graphics, etc.

**BGSD 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 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.

**BGSD 4950. Special Topics in Adult Continuing Education (1-6 credits)** — *Prerequisites:* Junior or senior status and permission of the instructor. Open to bachelor of general studies students only. This course gives students the opportunity to study special topics and new developments in the field of adult continuing education.

### BSIS

**BSIS 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 is to increase the student's knowledge in a particular personal or career-related area through a practical 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.

### BSPS

**BSPS 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 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

**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:* BIOL 1011. A biology course with laboratory experience in general education. The role of biology in today's society, with an emphasis on current issues in ecology, evolution, and behavior, will be discussed. Three hours of lecture and two hours of lab (BIOL 1011) per week. Students must register for 1011; a common grade will be given in 1010 and 1011. Fall, Spring.

-- **BIOL 1011. Biology for Non-majors Laboratory (0 credits)** — *Corequisite:* BIOL 1010. Laboratory exercises corresponding to Biology for Non-majors I. One two-hour laboratory per week. Students must register for 1010; a common grade will be given in 1010 and 1011. Fall, Spring.

-- **BIOL 1020. Biology for Non-majors II (4 credits)** — *Corequisite:* 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, will be discussed. Three hours of lecture and two hours of lab (BIOL 1021) per week. Students must register for 1021; a common grade will be given in 1020 and 1021. Fall, Spring.

-- **BIOL 1021. Biology for Non-majors Laboratory II (0 credits)** — *Corequisite:* BIOL 1020. Laboratory exercises corresponding to Biology for Non-majors II. One two-hour laboratory per week. Students must register for 1020; a common grade will be given in 1020 and 1021. Fall, Spring.

-- **BIOL 1110. Biology for Science Majors Lec. I (4 credits)** — 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 hours of lecture and two hours of lab (BIOL 1111) per week. Students must register for 1111; a common grade will be given in 1110 and 1111. Fall, Spring.

-- **BIOL 1111. Biology for Science Majors Lab. I (0 credits)** — *Corequisite:* 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. One two-hour laboratory per week. Students must register for 1111; a common grade will be given in 1110 and 1111, Fall, Spring.

**BIOL 1120. Biology for Science Majors Lec. II (4 credits)** — *Prerequisite:* BIOL 1110; *Corequisite:* 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 (BIOL 1121) per week. Students must register for 1121; a common grade will be given in 1120 and 1121. Fall, Spring.

**BIOL 1121. Biology for Science Majors Lab. II (0 credits)** — *Corequisite:* 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 II. One two-hour laboratory per week. Students must register for 1121; a common grade will be given in 1120 and 1121. Fall, Spring.

**BIOL 1130. Biology for Science Majors Lec. III (4 credits)** — *Prerequisite:* BIOL 1110; *Corequisite:* 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 (BIOL 1131) per week. Students must register for 1131; a common grade will be given in 1130 and 1131. Fall, Spring.

**BIOL 1131. Biology for Science Majors Lab. III (0 credits)** — *Corequisite:* 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 III. One two-hour laboratory per week. Students must register for 1130; a common grade will be given in 1130 and 1131. Fall, Spring.

**BIOL 2999. Cooperative Education (1-3 credits)** — Fall, Spring.

**BIOL 3100. General Genetics (3 credits)** — *Prerequisites:* BIOL 1110-1111, 1120-1121, 1130-1131, or equivalent plus MATH 1080 or MATH 1110. 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 hours lecture. (Also see optional 3141-Genetics Laboratory-2 credits.) Spring.

**BIOL 3141. Genetics Laboratory (2 credits)** — *Prerequisite or corequisite:* 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 two-hour laboratories per week. Spring.

**BIOL 3150. Cell Biology (3 credits)** — *Prerequisites:* BIOL 3100 plus one year general chemistry; organic chemistry recommended. A study of structural and functional relationships in the eukaryotic cell. Two hours lecture, one hour oral components. Fall.

**BIOL 3151. Cell Biology Laboratory (2 credits)** — *Prerequisite or corequisite:* BIOL 3150 or equivalent. Laboratory exercises demonstrating cell structure and function. Two two-hour laboratories per week. Fall.

**BIOL 3220. Comparative Anatomy (4 credits)** — *Prerequisites:* BIOL 1110-1111, 1120-1121, 1130-1131, or equivalent. Comparisons of structure and development of representative vertebrate systems. Three hours lecture and two three-hour laboratories per week. Fall.

**BIOL 3230. Vertebrate Embryology (4 credits)** — *Prerequisites:* BIOL 1110-1111, 1120-1121, 1130-1131, or equivalent. Development of vertebrate embryos. Laboratory work based on representative organisms. Two hours lecture and two two-hour laboratories per week. Spring.

**BIOL 3260. Animal Physiology (4 credits)** — *Prerequisites:* BIOL 1110-1111, 1120-1121, 1130-1131, 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 two two-hour laboratories per week. Spring.

**BIOL 3350. Ecology (4 credits)** — *Prerequisites:* BIOL 1110-1111, 1120-1121, 1130-1131, 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 two-hour laboratory per week. Fall.

**BIOL 3410. Vertebrate Zoology (4 credits)** — *Prerequisites:* BIOL 1110-1111, 1120-1121, 1130-1131, or equivalent. Biology, collection, identification, museum preparation, and natural history of vertebrates. Lecture, laboratory, and field studies. Emphasis on vertebrates of Eastern U.S. Two hours lecture and two two-hour laboratories per week. Spring.

**BIOL 3420. Plant Biology (4 credits)** — *Prerequisites:* BIOL 1110-1111, 1120-1121, 1130-1131, or equivalent. Basic Biology of plants, including morphology, reproduction, development, physiology, ecology, and relationships of major plant groups and their green algae ancestors. Two hours lecture and two-hour laboratories per week. Fall.

**BIOL 3460. Invertebrate Zoology (4 credits)** — *Prerequisites:* BIOL 1110-1111, 1120-1121, 1130-1131, or equivalent. Morphology, biology, life cycles, and relationships of the invertebrate organisms. Two hours lecture and two two-hour laboratories per week. Fall.

**BIOL 3480. General Entomology (4 credits)** — *Prerequisites:* BIOL 1110-1111, 1120-1121, 1130-1131, or equivalent. The biology of insects including their anatomy, physiology, life histories, behavior, taxonomy, geological history, and economic importance. Two hours lecture and two two-hour laboratories per week. Fall.

**BIOL 3550. Microtechnique (2 credits)** — *Prerequisites:* BIOL 1110-1111, 1120-1121, or equivalent. Methods for the study of plant and animal tissues. Two two-hour laboratories per week. Fall, Spring.

**BIOL 3992. Research Orientation (2 credits)** — *Prerequisites or corequisites:* BIOL 1110-1111, 1120-1121, 1130-1131, 3100; MATH 1080 or 1110. 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, an appropriate faculty mentor for an individual research project, and complete a Research Prospectus. One two-hour meeting per week. Fall.

**BIOL 3999. Cooperative Education (1-3 credits)** Fall, Spring.

**BIOL 4037/5037. Coastal Biology Field Trip (1 credit)** — *Prerequisites:* BIOL 1110-1111, 1120-1121, 1130-1131, or equivalent; must have permission of instructor. Intensive field survey of the coastal flora and fauna. Extra fees. Course can be repeated for credit with limit of one credit toward major. Fall.

**BIOL 4047/5047. Ecological Field Trip (3 credits)** — *Prerequisites:* BIOL 1110-1111, 1120-1121, 1130-1131, or equivalent; must have 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. Extra fees. Course can be repeated for credit with limit of three credits toward degree. Summer.

**BIOL 4147/5147. Biochemistry of Macromolecules (3 credits)** — *Prerequisites:* 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, and lipids; and studies of the production, structure, and function of nucleic acids. Three hours lecture per week. Fall.

**BIOL 4157/5157. Biochemistry of Macromolecules Lab (2 credits)** — *Prerequisite or corequisite:* 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 & characterization, and DNA isolation & characterization. Experiment planning and interpretation of data generated by the students will culminate in journal-style reports. One four-hour lab per week. Fall.

**BIOL 4167/5167. Biochemistry of Metabolism (3 credits)** — *Prerequisites:* 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. Spring.

**BIOL 4177/5177. Biochemistry of Metabolism Lab (2 credits)** — *Prerequisite or corequisite:* BIOL 4167/5167, or BOL 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. Spring.

**BIOL 4247/5247. Appalachian Flora (3 credits)**— *Prerequisite:* BIOL 1110-1111, 1120-1121, 1130-1131, or equivalent, or permission of the instructor. Field and laboratory identification and ecology of plants of the Southern Appalachian environs. Sixteen hours lecture and laboratory/field per week. Summer.

**BIOL 4257/5257. Appalachian Fauna (3 credits)** — *Prerequisites:* BIOL 1110-1111, 1120-1121, 1130-1131, 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 laboratory/field per week. Summer.

**BIOL 4267/5267. Plant Development (4 credits)** — *Prerequisites:* 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. Spring, odd years.

**BIOL 4277/5277. Neurobiology (4 credits)** — *Prerequisites:* BIOL 1110-1111, 1120-1121, 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. Fall.

**BIOL 4337/5337. Plant Systematics (4 credits)** — *Prerequisites:* BIOL 1110/1111, 1120/1121, 1130/1131 or equivalent. Flowering plant classification and evolution. Characters and methods of traditional plant taxonomy, and computer-based phylogenetic methods using morphological and molecular data sets will be introduced. Plants will be studied in field and lab, and 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. (fall semester, odd years)

**BIOL 4347/5347. Biogeography (2 credits)** — *Prerequisites:* 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. Fall, even years.

**BIOL 4357/5357. Ethology (3 credits)** — *Prerequisites:* BIOL 1110-1111, 1120-1121, 1130-1131, 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. Fall.

**BIOL 4360. Evolution (3 credits)** — *Prerequisites:* Completion of 20 credits of 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. Spring.

**BIOL 4367/5367. Systems Ecology (3 credits)** — *Prerequisite:* BIOL 3350, or permission of instructor. Computer simulation modeling of ecological systems. Three hours lecture/discussion/workshop per week. Spring, even years.

**BIOL 4337/5337. Plant Systematics (4 credits)** — *Prerequisite:* BISC 1110-1111, 1120-1121, 1130-1131, or equivalent. Characters and methods of traditional plant taxonomy, and computer-based phylogenetic methods using morphological and molecular data sets will be introduced. Plants will be studied in field and lab, and students will use data collected from plant specimens and from GenBank to conduct phylogenetic analyses in various angiosperm groups. Two hours of lecture and four hours of laboratory per week. Fall, odd years.

**BIOL 4417/5417. Teaching Biology in High School (3 credits)** — *Prerequisites:* Twenty-seven credits in biology and approval of advisor. Methods and materials in the teaching of biology. Not accepted for credit toward biological sciences majors and minors. Fall.

**BIOL 4450. Bryophytes, Ferns, and Seed Plants (4 credits)** — *Prerequisites:* BIOL 1110-1111, 1120-1121, 1130-1131, or equivalent. Principal taxa of land plants characterized and compared in terms of structural, functional, and reproductive adaptations. Two hours lecture and two two-hour laboratories per week. Spring

**BIOL 4467/5467. Ichthyology (3 credits)** — *Prerequisite:* 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 one-hour lectures and one three-hour laboratory per week.

**BIOL 4477/5477. Ornithology (4 credits)**— *Prerequisite:* 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 laboratory per week. Spring.

**BIOL 4597/5597. Recombinant DNA Laboratory (3 credits)** — *Prerequisites:* BIOL 1110-1111, 1120-1121, or 1130-1131, 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. Spring.

**BIOL 4647/5647. Molecular Biology (3 credits)** — *Prerequisites:* 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. Spring.

**BIOL 4737/5737. Conservation Biology (4 credits)**— *Prerequisites:* 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. Fall, even years.

**BIOL 4747/5747. Population Genetics (4 credits)**— *Prerequisites:* 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 laboratory per week. Fall, odd years.

**BIOL 4757/5757. Developmental Biology (3 credits)** — *Prerequisites:* 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 two-hour laboratory per week. Fall, odd years.

**BIOL 4767/5767. Plant Physiology (4 credits)**— *Prerequisites:* BIOL 1110-1111, 1120-1121, 1130-1131, or equivalent; plus 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. Spring, even years.

**BIOL 4857/5857. Aquatic Biology (3 credits)**— *Prerequisites:* BIOL 3350, or permission of instructor. Field trips collection, identification, and ecology of freshwater plants and animals. One hour lecture and two two-hour laboratories per week.

**BIOL 4867/5867. Marine Biology (4 credits)** — *Prerequisites:* BIOL 1110-1111, 1120-1121, 1130-1131 or equivalent; BIOL 3460 recommended. Principles of marine biology with emphasis on habitats and ecological processes. Two hours lecture and two two-hour laboratories per week. Spring.

**BIOL 4900. Independent Studies (1-4 credits)** Fall, Spring.

**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. Fall.

**BIOL 4957/5957. Special Topics in Biological Sciences (2-6 credits)** — *Prerequisites:* 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. Fall, Spring.

**BIOL 4999. Cooperative Education (1-3 credits)** Fall, Spring.

#### Graduate Course Listing

For descriptions and Prerequisites 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)

## 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 to disorders of speech, language, and hearing.

**CDIS 4010. Speech and Hearing Science I (4 credits)** — A study of the basic anatomy and physiology of speech/hearing mechanisms. Information pertaining to the biology and physics of spoken language are also presented. This course provides a laboratory experience that includes an introduction to the International Phonetic Alphabet and transcriptions of the speech from typical speakers with different regional dialects.

**CDIS 4020. Speech and Hearing Science II (4 credits)** — *Prerequisites:* 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 4060. Language Development (3 credits)** — *Prerequisites:* CDIS 4000 and 4010. A study of the psycholinguistic aspects of language including cultural influences; the complex nature of language and the language-learning process; and the strategies involved in analyzing normal child communication.

**CDIS 4200. The Clinical Process (3 credits)** — *Prerequisite:* 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 Prerequisites see the *Graduate Catalog*.

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 5115.	Audiologic Evaluation I	(3 credits)
CDIS 5140.	Amplification Systems	(3 credits)
CDIS 5145.	Pathologies of the Auditory System	(3 credits)
CDIS 5150.	Psychoacoustics	(3 credits)
CDIS 5160.	Audiologic Techniques II	(3 credits)
CDIS 5180.	Pediatric Audiology	(3 credits)
CDIS 5195.	Electrophysiology	(3 credits)
CDIS 5200.	Speech-Language Pathology in the Public Schools	(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 5290.	Advanced Adult Neurogenic Cognitive Communicative Disorders	(3 credits)
CDIS 5300.	Rehabilitative Audiology for Children	(3 credits)
CDIS 5310.	Rehabilitative Audiology for Adults	(3 credits)
CDIS 5320.	Auditory Processing Disorders	(3 credits)
CDIS 5330.	Speech Perception	(3 credits)
CDIS 5340.	Audiology Clinical Practice Management	(3 credits)
CDIS 5400.	Research Methods in Communicative Disorders	(3 credits)
CDIS 5510.	Audiology Clinic for Speech-Language Pathologists	(1 credit)
CDIS 5520.	Audiology Clinic	(3 credits)
CDIS 5590.	Externship Audiology	(6-9 credits)
CDIS 5610.	Speech-Language Pathology Clinic for Audiologists	(1 credit)

CDIS 5620.	Speech-Language Pathology Clinic: Child Evaluation/Treatment	(3 credits)
CDIS 5640.	Speech-Language Pathology Clinic: Adult Evaluation/Treatment	(3 credits)
CDIS 5670.	Speech-Language Pathology Clinic: Advanced	(3 credits)
CDIS 5690.	Externship: Speech-Language Pathology	(3 credits)
CDIS 5900.	Independent Study	(3 credits)
CDIS 5960.	Thesis	(3-6 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 hours of lecture and one hour of laboratory/discussion per week.

**CHEM 1110-20. General Chemistry Lecture (4, 4 credits)** — *Corequisites:* CHEM 1111-21, respectively. 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 hours of lecture-recitation per week. A common grade will be given in 1110 and 1111 as well as in 1120 and 1121.

**CHEM 1111-21. General Chemistry Laboratory (0, 0 credit)** — *Corequisites:* CHEM 1110-20, respectively. Laboratory to accompany 1110-20. One three-hour laboratory per week. A common grade will be given in 1111 and 1110 and in 1121 and 1120.

**CHEM 2220. Quantitative Analysis Lecture (2 credits)** — *Prerequisites:* CHEM 1120-21. *Corequisite:* 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:* CHEM 2220. Laboratory to accompany 2220. One four-hour laboratory period per week.

**CHEM 2010-20. Organic Chemistry Lecture (3, 3 credits)** — *Prerequisites:* CHEM 1120-21. *Corequisites:* CHEM 2011-21, respectively. The basic course in the study of compounds of carbon. Three hours of lecture per week. Must be taken in proper sequence.

**CHEM 2011-21. Organic Chemistry Laboratory (2, 2 credits)** — *Corequisites:* CHEM 2010-20, respectively. Laboratory to accompany 2010-20. One four-hour laboratory period per week. Must be taken in proper sequence.

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

**CHEM 3110. Descriptive Inorganic Chemistry (3 credits)** — *Prerequisites:* CHEM 1120-21. A study of properties and reactions of inorganic compounds with emphasis on trends in the Periodic Table. Three hours of lecture-recitation per week.

**CHEM 3611. Introductory Integrated Laboratory (2 credits)** — *Corequisite:* Chem 3710 or CHEM 3750. Introduction to advanced chemistry laboratory techniques with emphasis on physico-chemical measurements. Includes data handling, report writing, and work with classical and instrumental methods. One four-hour laboratory period per week.

**CHEM 3710. Principles of Physical Chemistry Lecture (3 credits)** — *Prerequisites:* CHEM 2220-21. *Prerequisites or corequisites:* CHEM 2010 and General Physics. *Corequisite:* CHEM 3611. A brief physical chemistry course for the Chemistry Concentration program, with a life science emphasis. Three hours of lecture per week.

**CHEM 3750-60. Physical Chemistry (3, 3 credits)** — *Prerequisites:* Physics and Calculus. *Prerequisites or corequisites:* CHEM 2010-11, 2220-21. *Corequisites:* CHEM 4611, 4621, or 4631, respectively. Physical chemistry for those planning a career in the field of chemistry. Elements of thermodynamics, kinetics, and quantum chemistry. Three hours of lecture per week.

**CHEM 3989-99. Cooperative Education (3, 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 4110. Advanced Inorganic Chemistry Lecture (3 credits)** — *Prerequisite or corequisite:* CHEM 3750-60. Principles of theoretical and descriptive inorganic chemistry. Three lecture-recitation hours per week.

**CHEM 4200. Principles of Instrumental Analysis (3 credits)** — *Prerequisites:* CHEM 2220-2221. 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 hours of lecture per week.

**CHEM 4611. Advanced Integrated Laboratory - Dynamics (2 credits)** — *Prerequisite:* 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 four-hour laboratory period per week.

**CHEM 4621. Advanced Integrated Laboratory - Structure (2 credits)** — *Prerequisite:* CHEM 3611. Advanced chemistry laboratory with emphasis on structural analysis by modern instrumental techniques. When possible, compounds will be synthesized by the student. One four-hour laboratory period per week.

**CHEM 4631. Advanced Integrated Laboratory - Analytical Techniques (2 credits)** — *Prerequisite:* 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 four-hour laboratory period per week.

**CHEM 4817/5817. Introduction to Industrial Chemistry (3 credits)** — *Prerequisites:* 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:* 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, 3 credits)**

### Graduate Course Listing

For descriptions and Prerequisites 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	(2 credits)
CHEM 5960.	Thesis in Chemistry	(1-4 credits)
CHEM 5989-99.	Cooperative Education	(3, 3 credits)
CHEM 5990.	Readings and Research	(3 credits)
CHEM 5989-99.	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; overview of the interrelated criminal justice agencies.

**CJCR 1200. Human Relations in Criminal Justice (3 credits)** — An examination of models of human behavior, with particular emphasis on antecedents and conditions that affect personnel performance in criminal justice environments.

**CJCR 1500. Criminal Investigation (3 credits)** — Fundamentals of criminal investigation procedures; crime scene search and recording, collecting and preserving evidence, scientific and technical aids, 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, and fiber and fabric identification.

**CJCR 2000. 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 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 2989-99. Cooperative Education (1-3 credits)**

**CJCR 3000. Statistics for Criminal Justice and Criminology (3 credits)** — *Prerequisite:* 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 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 on functions and control of police in a democratic society. Analysis of policing from a social science perspective.

**CJCR 3440. Corrections in America (3 credits)** — Philosophical and historical evolution of punishment in the U.S. Emphasis on prisons, jails, community-based corrections. Efficiency of social control policies, such as "boot camp" prisons, rehabilitation, juvenile detention, capital punishment, etc., examined.

**CJCR 3444. Microcomputers as a Research Tool (3 credits)** — *Prerequisites:* 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 3650. Criminal Procedure (3 credits)** — Federal/state laws and rules of arrest, search and seizure of evidence, interrogation of suspects and 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 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: emphasis on various forms of violence such as homicide, gangs, hate groups, and 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 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. Comparison of crime rates, types of criminal offending, and victimization. Includes discussion of sexual and racial harassment in workplace.

**CJCR 4800. Field Experience in Criminal Justice (6 credits)** — *Prerequisites:* Prior arrangement with instructor, senior status, and departmental approval of application. A 225-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 systems. Evaluation of alternative policies for intervention by police, courts, and correctional agencies.

**CJCR 4900. Independent Study in Criminal Justice (1-3 credits)** — *Prerequisite:* Consent of department chair. Directed study in specific areas of criminal justice literature not covered by organized undergraduate courses. A detailed research paper will be 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:* Senior or graduate status. A seminar on selected topics of contemporary interest.

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

### Graduate Course Listing

The department offers the M.A. in criminal justice with courses in criminology, corrections, and police studies.

For descriptions and prerequisites see the *Graduate Catalog*.

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, & Criminal Justice	(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 & 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 & Research	(1-3 credits)

### Cardiopulmonary Science CPSC

**CPSC 3000. Foundations of Cardiopulmonary Science (3 credits)** — *Prerequisites:* ALHE 2010 and 2020. Acceptance into the Cardiopulmonary Science program. *Corequisites:* CPSC 3010 and 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)** — *Prerequisites:* ALHE 2010 and 2020. Acceptance into the Cardiopulmonary Science program. *Corequisites:* CPSC 3000 and 3040. Cardiopulmonary equipment utilized to perform basic modalities of care will be examined in detail. Emphasis will be 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 (2 credits)** — *Prerequisites:* ALHE 2010 and 2020. Acceptance into the Cardiopulmonary Science program. *Corequisites:* 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)** — *Prerequisites:* CPSC 3000, 3010, and 3040. *Corequisites:* CPSC 3110 and 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)** — *Prerequisites:* CPSC 3000, 3010, and 3040. *Corequisites:* CPSC 3100 and 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 (2 credits)** — *Prerequisites:* CPSC 3100 and 3110. *Corequisite:* 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)** — *Prerequisites:* CPSC 3000, 3010, and 3040. *Corequisites:* CPSC 3100 and 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:* CPSC 3150. *Corequisite:* 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 4100. Advanced Cardiopulmonary Critical Care (3 credits)** — *Prerequisites:* CPSC 3100, 3110, and 3140. *Corequisites:* CPSC 4150, 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)**— *Prerequisites:* CPSC 3350. *Corequisites:* CPSC 4100, 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)** — *Prerequisites:* CPSC 4100 and 4500. *Corequisites:* 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:* CPSC 4150. *Corequisites:* 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)**— *Prerequisites:* CPSC 3100, 3110, and 3140. *Corequisites:* CPSC 4100, 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)** — *Prerequisites:* Admission to College of Applied Science 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.

**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)** — *Prerequisites:* 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)** — *Prerequisites:* 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 1250. Introduction to Computer Science I (4 credits)** — *Prerequisites:* MATH 1040 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:* CSCI 1250 or permission of the instructor. 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:* 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.

**CSCI 1600. Visual Programming with Applications (3 credits)** — *Corequisite:* 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. World Wide Web - Design and Creation (3 credits)** — *Prerequisite:* MATH 1720 or two years of high school algebra and *Corequisite:* CSCI 1100 - Using Information Technology 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, multi-media integration, and browser plug-ins. Laboratory use of software and team participation is an integral part of this course.

**CSCI 1720. World Wide Web - Advanced Concepts (3 credits)** — *Prerequisite:* CSCI 1710. May not be used as a CSCI major elective if CSCI 2910 is also taken. A study of browser scripting languages to control web content (such as, JavaScript and ActiveX). Topics will include: using browser interpreted language to control web content; writing back-end/server programs to handle interactive web pages (CGI); web design strategies; control structures; and implementation considerations. Students will design and implement real-world applications. Laboratory use of software and team participation is an integral part of this course.

**CSCI 1800. Visual Programming I (3 credits)** — *Prerequisite:* CSCI 1100. 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 2038. Honors Professional Ethics (3 credits)** — *Prerequisites:* Admission to College of Applied Science 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.

**CSCI 2100. Introduction to "C" (3 credits)** — Syntax and structure of the C 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)** — *Prerequisites:* CSCI 1250 or CSCI 1800. An introduction to Boolean algebra, combinational and sequential circuits. Gate and flip-flop characteristics. An introduction to machine architecture and system components to include memory subsystems and I/O subsystems. An introduction to operating systems including I/O handling, memory management, interrupt handlers, and other system programs. Concepts and techniques such as multiprogramming, virtual storage, and virtual machines. Data and instruction representation. Design, implementation, and demonstration of combinational and sequential logical functions will be an integral part of the course. A laboratory component of this course will provide hands-on experience in upgrading, repairing, and maintaining personal computers.

**CSCI 2160. Assembly Language (4 credits)** — *Prerequisite:* CSCI 1260 and 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, use of the assembler. Laboratory use of the computer in designing, coding, debugging, and executing programs is an integral part of the course.

**CSCI 2210. Data Structures (4 credits)** — *Prerequisites:* CSCI 1260 Strings, lists, stacks, queues, arrays, trees and graphs. 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:* CSCI 2210. Techniques 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: CSCI 1250 or 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 2800. Visual Programming - Advanced Concepts (4 credits)** — Prerequisite: CSCI 1800. 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 Programming (4 credits)** — Prerequisite: CSCI 1710 and CSCI 2800, corequisite: CSCI 2235. A study of programming client and server-side applications for the Internet. Topics will include: client side programming, server-side programming, web-server scripting languages, common gateway interface applications; and real-world implementation considerations.

**CSCI 2989-99. Cooperative Education (1-3, 1-3 credits)**

**CSCI 3030. Technical Communication (3 credits)** — Prerequisites: 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 integral part of the course.

**CSCI 3048. Honors Methods of Research (3 credits)** — Prerequisite: Admission to College of Applied Science and Technology or University Honors Program. Analysis of the materials and methods of research appropriate to Applied Science and Technology.

**CSCI 3220. Introduction to Database Systems (3 credits)** — Prerequisite: 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 3250. Software Engineering I (3 credits)** — Prerequisite: CSCI 2210 and 2230, or CSCI 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 are stressed.

**CSCI 3310. Advanced Programming Techniques (4 credits)** — Prerequisites: CSCI 1260 and 2160, or permission of the instructor. Development of software through good programming practices and software life cycle methodologies in a high-level language. Laboratory use of the computer in designing, coding, debugging, and executing programs is an integral part of the course.

**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, software quality assurance. Communications (written and oral), legal, professional, ethical issues. Participation on team projects, use of automated tools are integral.

**CSCI 3400. Networking Fundamentals (3 credits)** — Prerequisite: 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; and principles of TCP/IP network operation.

**CSCI 3989-99. Cooperative Education (1-3, 1-3 credits)**

**CSCI 4018. Honors Thesis (3 credits)** — Prerequisite: 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.

**CSCI 4048. Honors International Study (3 credits)** — Prerequisites: 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 4157/5157. Interactive Graphics (3 credits)** — Prerequisites: 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: 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: CSCI 3220. Introductions to Database Systems. A continuation of the study of the use and underlying principles of database design begun in CSCI 3220. Students will learn more of the internal working of database management systems, as well as exploring approaches other than the 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)** — Prerequisites: Minimum of 60 hours completed or approval of the instructor. A multi-disciplinary 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)** — Prerequisites: CSCI 3400 and 2235. A survey of concerns related to management and design of local area networks. Topics include the practice of system administration; overview of network operating systems; best practices for system administration; fundamentals of Unix and Windows system administration; routing; 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)** — Prerequisites: Senior standing or permission of instructor. A study of the basic elements of multi-media 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)** — Prerequisites: 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: 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, I/O and interrupt structure.

**CSCI 4727/5727. Operating Systems (3 credits)** — Prerequisite: 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: CSCI 3220. 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; non-technical elements of professional competence; and strategies for continuing career development after college.

**CSCI 4857/5857. User Interface Programming (4 credits)** — *Prerequisite:* CSCI 1250 and CSCI 1260, or equivalent. The concepts and programming techniques used to create applications with modern user interfaces. The course will focus on current technology as it applies to a modern operating system and software development tools. The course will focus on the user interface rather than underlying applications. Course will not count toward graduate degree requirements in Computer Science.

**CSCI 4900. Independent Study (1-6 credits)** — *Prerequisite:* Permission of the department. Individual or group projects done with permission of and under supervision of faculty. May be repeated for credit with approval.

**CSCI 4910. Selected Topics in Computer Science (1-6 credits)** — *Prerequisite:* Permission of instructor. Selected special topics in computer science not covered in other courses. 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:* Permission of instructor. Special topics not covered in other courses. May be repeated for credit with departmental approval if the topics are significantly different.

### **CSCI 4989-99. Cooperative Education (1-3 credits)**

#### **Graduate Course Listing**

For descriptions and Prerequisites 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 & 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 in Computer and Information Sciences	(3 credits)
CSCI 5989-99. Cooperative Education	(1-3, 1-3 credits)
CSCI 5990. Readings and Research	(1-3 credits)

#### **Curriculum and Instruction**

##### **CUAI**

**CUAI 2440. Computer Applications in Education (3 credits)** — *Prerequisites:* 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 3430. Elementary Methods in Mathematics (K-8) (3 credits)** — *Prerequisites:* 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 4210. Integrated Teaching: Language Arts (3 credits)** — *Prerequisites:* Admission to teacher education, MEDA 3570, HDAL 3310, READ 3100, and SPED 2300. This course is taken concurrently with CUIAI 4220, and CUIAI 4230. 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-8. The emphasis is on planning, implementing, and assessing an integrated program on student learning and effective teaching. (Evaluative level portfolio required)

**CUAI 4220. Integrated Teaching: Social Studies (3 credits)** — *Prerequisites:* Admission to teacher education, MEDA 3570, HDAL 3310, READ 3100 and SPED 2300. This course is to be taken concurrently with CUIAI 4210, and CUIAI 4230. This course is designed to explore the current methodology and content of early- and middle-grade social studies education. Students design and implement learning experiences that incorporate meaningful uses of social studies concepts during field experiences. (Evaluative level portfolio required)

**CUAI 4230. Integrated Field Experience I (1 credit)** — *Prerequisites:* Admission to teacher education, MEDA 3570, HDAL 3310, READ 3100 and SPED 2300. Course is to be taken concurrently with 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 4310. Integrated Teaching: Mathematics (3 credits)** — *Prerequisites:* Admission to teacher education, CUIAI 4210, CUIAI 4220 and CUIAI 4230. This course is taken concurrently with SCED 4320 and CUIAI 4330. This course addresses methodology and theories for teaching and learning elementary mathematics (K-8) 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. (Evaluative level portfolio required)

**CUAI 4330. Integrated Field Experience II (1 credit)** — *Prerequisites:* Admission to teacher education, CUIAI 4210, CUIAI 4220, and CUIAI 4230. This course is to be taken concurrently with 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 Art: K-8 (3 credits)** — *Prerequisites:* 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). *Prerequisites:* Admission to Teacher Education.

ARTA 4419.	Teaching Art in Secondary Schools	(3 credits)
AHSC 4717/5717.	Vocational Home Economics Curriculum	(3 credits)
AHSC 4727/5727.	Methods for Vocational Home Economics Education	(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 Education	(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 & Theatre	(3 credits)
THEA 4417/5417.	Teaching Theatre Grades K-12	(3 credits)

**CUAI 4417/5417. Secondary School Curriculum and Methodology (3 credits)** — *Prerequisite:* Admission to Teacher Education. *Corequisite:* 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. Offered fall and spring semesters. (Evaluative Level Portfolio required.)

**CUAI 4427/5427. Secondary School Curriculum and Methodology Field Experience (1 credit)** — *Prerequisite:* Admission to Teacher Education. *Corequisite:* 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. Offered fall and spring semesters. (Evaluative Level Portfolio required.)

**CUAI 4580. Directed Student Teaching (1-12 credits)** — *Prerequisites:* 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)** — *Prerequisites:* Admission and retention in teacher education and approval of the director of student teaching. 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. Students enrolling for the internship must enroll also for CUIA 4687.

**CUAI 4687/5687. Seminar for Interns (3 credits)** — *Corequisite:* Enrollment in CUIA 4687 Internship. 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)** — *Prerequisites:* EDFN 3300 and 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 & Instruction (1-6 credits)** — *Prerequisite:* 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 Prerequisites 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 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)

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

**DHYG1 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)** — 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:* 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)** — *Prerequisites:* DHYG 1200, 1201. A continuation of preparation necessary for the dental hygienist rendering oral health services.

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

**DHYG 1700. Intro 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)** — *Prerequisites:* DHYG 1500, 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)** — *Prerequisites:* DHYG 1600, 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)** — *Prerequisites:* DHYG 1200, 1201, 1600, and 1601. This course is offered in conjunction with 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:* 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:* 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 (2 credits)** — *Prerequisite:* Acceptance in Dental Hygiene curriculum or special departmental approval. Pre-Clinical Dental Hygiene Lab includes basic concepts of dental hygiene therapy 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:* Acceptance to dental hygiene program or special permission. CPR health care provider. The study of medical emergencies, as it relates to the practice of dental hygiene.

**DHYG 2050. Occupational Safety for Dental Healthcare Workers (1 credit)** — *Prerequisite:* Acceptance in Dental Hygiene curriculum or special departmental approval. A study of transmissible 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:* 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:* 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:* 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:* 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:* 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:* 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)** — *Prerequisites:* DHYG 2000, 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)** — *Prerequisites:* DHYG 2000, 2010. This course is offered 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)** — *Prerequisites:* CHEM 1310, 1311, HSCI 2010, 2020, 2230, 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)** — *Prerequisites:* DHYG 2400, 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)** — *Prerequisites:* DHYG 2400, 2410. This course is offered 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:* Permission of the instructor. An independent study plan. Individual student or group of students, select a significant problem in dental hygiene, 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' design and presentation of in-services to nursing home staff.

**DHYG 3010. Head and Neck Anatomy (2 credits)** — *Prerequisite:* 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:* 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:* 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:* 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:* 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:* 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:* Acceptance in Dental Hygiene curriculum or special departmental approval. Three-hour laboratory 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:* 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:* 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:* 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:* 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:* 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, and will lead to the development of a dental health lesson plan for the dental hygienist.

**DHYG 4020. Dental Hygiene Clinical Seminar III (1 credit)** — *Prerequisite:* 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:* 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:* 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:* 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:* 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:* 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:* 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**  
**(Pending TBR Approval)**

**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 Laboratory.

**DIGM 2821. Desktop Publishing (4 credits)** — Study of history, basic processes, materials, and methods of graphic arts and communication industries with emphasis on methods of computer-based production. Lecture and Laboratory.

**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 laboratory.

**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 laboratory.

**DIGM 2830. Introduction to Multimedia (4 credits)** — *Prerequisites:* DIGM 2825. Introduction to methods and tools used to develop and deliver computer-based interactive multimedia: bitmap and vector graphics, animation, video, and audio. Students work with various computer software tools to create assets and author interactive control programs for various applications, such as CD-ROM, information kiosk, or delivery across the World Wide Web of the Internet. Lecture and laboratory.

**DIGM 2840. Introduction to Visualization (4 credits)** — *Prerequisites:* DIGM 2825. An introduction to 3-D digital visualization for specific applications (such as games, animation, product manufacturing, and architecture) using industry standard computer software to explore fundamentals of modeling, texturing, and animating. Includes study of the basic history of computer graphics technology. Lecture and laboratory.

**DIGM 2850. Introduction to Hypermedia (4 credits)** — *Prerequisites:* CSCI 1710, DIGM 2825. An introduction to hypermedia as information architecture comprising digital media elements linked across computer networks such as the World Wide Web and enterprise information systems, with emphasis on issues of usability and long-term maintenance of site and page design. Lecture and laboratory.

**DIGM 2860. Introduction to Product Design (4 credits)** — *Prerequisites:* DIGM 2825. An introduction to the product design cycle from initial concept to final manufacture. Emphasis is on direct experience of process factors affecting concept rendering, quality assurance, manufacturing efficiency, and marketing. Lecture and laboratory.

**DIGM 3830. Intermediate Multimedia. (4 credits)** — *Prerequisite:* DIGM 2830. Multimedia production using digital video and interactive animation for Internet and industrial information applications. A comprehensive overview of video image processing and composite media project development using professional caliber software and hardware. Lecture and laboratory.

**DIGM 3840. Intermediate Visualization (4 credits)** — *Prerequisite:* DIGM 2840. A study in advanced digital 3-D modeling, texturing and lighting techniques. Introduction to basic animation, animatics and storyboarding. Animation topics will include modifiers, hierarchies, free-form deformations, motion paths, etc. Lecture and laboratory.

**DIGM 3850. Intermediate Hypermedia (4 credits)** — *Prerequisites:* CSCI 1720, DIGM 2850. Designing and building data-intensive information systems as custom solutions for delivering interactive digital media using Extensible Markup Language (XML) and associated technology. Lecture and laboratory.

**DIGM 3860. Intermediate Product Design (4 credits)** — *Prerequisite:* DIGM 2860. Computer-based design using 3-D modeling in combination with physical models to conceive, prototype, and refine new products for manufacture. Lecture and laboratory.

**DIGM 4177/5177. Computer Graphics (4 credits)** — Study of advanced computer graphic systems with particular emphasis on postscript illustration and communication. Lecture and laboratory.

**DIGM 4650. Digital Imaging (3 credits)** — 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. Graphic design, color usage and computer-based production of both traditional and digital publications will be studied.

**DIGM 4837/5837. Advanced Multimedia (4 credits)** — *Prerequisite:* DIGM 3830 or permission of instructor. Methods and best practices for producing and delivering quality multimedia projects on time and within budget. Emphasis is on management guidelines for each stage of the project life cycle present from a project manager's view using task-related exercises. Course content is directed toward online collaborative project execution and is directed toward online marketing and distribution via multimedia vehicles. Lecture and laboratory.

**DIGM 4839. Senior Project in Multimedia (4 credits)** — *Prerequisite:* DIGM 4837. Working under supervision of a faculty member the student proposes, executes, and delivers a comprehensive project in multimedia to be reviewed and graded by a committee of Digital Media faculty.

**DIGM 4847/5847. Advanced Visualization (4 credits)** — *Prerequisite:* DIGM 3840 or permission of instructor. A study in advanced animation techniques. Topics may include, but are not limited to 3-D parametric animation (particle system), forward kinematics, inverse kinematics, bones systems and native character animation procedures with a focus on motion, timing and storytelling. Lecture and laboratory.

**DIGM 4849. Senior Project in Visualization. (4 credits)** — *Prerequisite:* DIGM 4847. Working under supervision of a faculty member the student proposes, executes, and delivers a comprehensive project in visualization to be reviewed and graded by a committee of Digital Media faculty.

**DIGM 4857/5857. Advanced Hypermedia (4 credits)** — *Prerequisites:* DIGM 3850 or permission of instructor. Collaboratively designing and implementing large-scale linked media publishing architectures (for Internet, intranet and extranet), with emphasis upon user-centered requirements gathering and work-centered design and documentation techniques. Lecture and laboratory.

**DIGM 4859. Senior Project in Hypermedia (4 credits)** — *Prerequisite:* DIGM 4857. Working under supervision of a faculty member the student proposes, executes, and delivers a comprehensive project in hypermedia to be reviewed and graded by a committee of Digital Media faculty.

**DIGM 4867/5867. Advanced Product Design (4 credits)** — *Prerequisite:* DIGM 3860 or permission of instructor. Issues of efficient product design, manufacturing constraints, and project documentation are examined in context of computer-based modeling and presentation for marketing and manufacturing. Lecture and laboratory.

**DIGM 4869. Senior Project in Product Design. (4 credits)** — *Prerequisite:* DIGM 4867. Working under supervision of a faculty member the student proposes, executes, and delivers, a comprehensive project in product design to be reviewed and graded by a committee of Digital Media faculty.

### 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.)

### Mathematics (DSPM)

**DSPM 0800. Elementary Algebra (3 credits)** — An algebra course emphasizing the fundamental operations of integers, fundamental operations of polynomials, exponents, factoring, algebraic fractions, linear equations with applications and solving quadratic and rational expressions by factoring. (The graduation requirement is increased by three credits for students enrolled in this course.)

**DSPM 0850. Intermediate Algebra (3 credits)** — An algebra course emphasizing radicals, exponents, quadratic equations, inequalities, linear equations, functions, and graphing. (The graduation requirement is increased by three 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. The study of lines, angles, polygons, circles, surfaces, solids, the cartesian plane, and the development of critical thinking skills are stressed. These concepts are reinforced through activities on the computer.

### 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.)

### Study Skills (DSPS)

**DSPS 0800. Learning Strategies (3 credits)** — This course builds students' 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.)

### Economics ECON

NOTE: All students enrolling in 3000- and 4000-level (upper division) College of Business 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 1088. 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 of Business I (3 credits)** — *Prerequisite:* MATH 1080. 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 of Business II (3 credits)** — *Prerequisite:* ECON 2070. This course advances the quantitative sequence begun by MATH 1080 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)** — *Prerequisites:* ECON 2070, 2210 and 2220. An exposition of price theory and its applications.

**ECON 3040. Macroeconomics: Analysis and Policy (3 credits)** — *Prerequisites:* ECON 2070, 2210, and 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:* MATH 1530, ECON 2070, and 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)** — *Prerequisites:* ECON 2210 and 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)** — *Prerequisites:* 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)** — *Prerequisites:* ECON 3088 and admission to the College of Business Honors Program. A seminar for College of Business 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 faculty.

**ECON 4317/5317. Health Economics (3 credits)** — *Prerequisites:* 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)** — *Prerequisites:* ECON 2210 and 2220. Theoretical and real world operations of labor markets. 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)** — *Prerequisites:* ECON 2210 and 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)** — *Prerequisites:* ECON 2210 and 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)**— *Prerequisites:* ECON 2210 and 2220. An overview of the structure and performance of the U.S. 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)** — *Prerequisites:* ECON 2210 and 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. Role and operation of the international financial system. The rise of multinational companies and global markets.

**ECON 4610. Managerial Economics (3 credits)** — *Prerequisites:* ECON 2080, 2210, and 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)** — *Prerequisites:* (Must have completed a minimum of six semester credits at the upper division level in the student's major, junior or senior standing and a GPA of 2.7 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.

**ECON 4957/5957. Topics in Economics (3 credits)**— *Prerequisite:* 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.

### Economics Graduate Course Listing

For descriptions and Prerequisites see the *Graduate Catalog*.

ECON 5000. Essentials of Economics	(3 credits)
ECON 5010. Essentials of Statistics	(3 credits)
ECON 5510. Current Social and Economic Issues	(3 credits)
ECON 5900-01. Independent Study in Economics	(1-3 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, problem, 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 (3 credits)** — *Prerequisite:* 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)** — *Prerequisites:* Students should successfully complete EDFN 2100, Orientation to the Profession of Education and EDFN 2300, Foundations for Teaching or AHSC 2120 Foundation of Early Childhood (if appropriate), prior to enrolling in this course. 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)** — *Corequisite:* 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, and 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

EDFN 5000. History and Philosophy of Education	(3 credits)
EDFN 5010. Interdisciplinary Seminar	(1 credit, may be repeated for a total of 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 Education	(3 credits)
EDFN 6730. Foundations: Historical and Philosophical Foundations of Education	(3 credits)

### Educational Leadership & 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 equivalents 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:* 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:* 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)** — *Prerequisites:* ENGL 1010, 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 2030. Literary Heritage (3 credits)**— *Prerequisites:* ENGL 1010 and 1020 or equivalents. 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 2130. American Literature (3 credits)** — *Prerequisites:* ENGL 1010 and 1020 or equivalents. A survey of important American writers from Colonial times to the present.

-- **ENGL 2138. Honors Survey of American Literature (3 credits)** — *Prerequisites:* ENGL 1010 and 1020 or Honors equivalents. 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)** — *Prerequisites:* ENGL 1010 and 1020 or equivalents. Survey of major British writers from Anglo-Saxon Period through 18th century.

-- **ENGL 2220. British Literature II (3 credits)** — *Prerequisites:* ENGL 1010 and 1020 or equivalents. Survey of major British writers from the Romantic Period to the present.

-- **ENGL 2238. Honors Survey of British Literature (3 credits)** — *Prerequisites:* ENGL 1010 and 1020 or Honors equivalents. 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)** — *Prerequisites:* ENGL 1010 and 1020 or equivalents. 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:* ENGL 1010 and 1020 or Honors equivalents. 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)** — *Prerequisites:* ENGL 1010 and 1020 or equivalents. 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)** — *Prerequisites:* ENGL 1010 and 1020 or Honors equivalents. 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; reportage and journalism.

**ENGL 3065. Southern Appalachian Literature (3 credits)** — Survey of Southern Appalachian literature from the eighteenth century to the present.

**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)** — *Prerequisites:* ENGL 2138, 2238, 2338, or 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)** — *Prerequisites:* ENGL 2138, 2238, 2338, or 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; 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)** — *Prerequisites:* ENGL 1010 and 1020 or equivalents 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)** — ENGL 1010 and 1020 or equivalents. 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; 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. African American Literature I (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 4008. Honors Shakespeare (3 credits)** — *Prerequisites:* ENGL 3118 and 3128. Open only to those in English Honors. 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. 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. African American Literature II (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 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, 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 Jonson.

**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 majors writers in Irish and Scottish literature with attention to folklore and 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 film, African-American films, films of Appalachia. May be repeated for credit when content varies.

**ENGL 4417/5417. Teaching English in Secondary Schools (3 credits)** — Instruction in the methods and materials to be used by English teachers in middle and high schools. Offered during fall semester. Counts as professional education credit.

**ENGL 4507/5507. Literature in Film (3 credits)** — Film adaptations of significant literary works.

**ENGL 4690. Milton and His Age (3 credits)** — Paradise Lost, Paradise Regained, Samson Agonistes and selected short poetry; examination of Milton’s role as artist and thinker in his time and in the modern world.

**ENGL 4700. Chaucer and Medieval Literature (3 credits)** — The Canterbury Tales and other selections from the period.

**ENGL 4857/5857. Technical Writing (3 credits)** — Course emphasizes organization and presentation of technical material through effective applied writing, such as use of graphics, indexing, storyboarding, etc.

**ENGL 4896. Studies in English (3 credits)** — Study in selected topics/themes in literature.

**ENGL 4907/5907. Creative Writing II: Fiction (3 credits)** — *Prerequisite:* 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:* 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.

### Graduate Course Listing

For descriptions and Prerequisites 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 5200. Restoration and 18th Century Literature	(3 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)

### Technology ENTC

**ENTC 1038. Honors Orientation Seminar (1 credit)** — *Prerequisites:* Admission to College of Applied Science 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 laboratory.

**ENTC 1120. Manufacturing Processes and Specification (3 credits)** — *Prerequisite:* ENTC 1110 or equivalent. The study of engineering 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 1130. Descriptive Geometry (2 credits)** — *Prerequisite:* ENTC 1110 or one year of high school technical drawing. Development of graphic techniques for the solution of spatial relationship design problems. Lecture and laboratory.

**ENTC 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.

**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 laboratory.

**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 laboratory.

**ENTC 2038. Honors Professional Ethics (3 credits)** — *Prerequisites:* Admission to College of Applied Science 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.

**ENTC 2130. Machine Design Drawing (4 credits)** — *Co or Prerequisites:* ENTC 1120, 1130, 2170, and 2200. Limit dimensioning, geometric form and positional tolerancing, drafting standards, cams, gears, production, and working drawings. Lecture and laboratory.

**ENTC 2160. Architectural CAD (3 credits)** — *Prerequisite:* ENTC 1110 or similar experience. An introduction to the principles of architectural computer-aided drafting on a microcomputer. Lecture and Laboratory.

**ENTC 2170. CADD (Computer Aided Design Drafting) (3 credits)** — *Co or Prerequisite:* ENTC 1110 or drafting experience. An introduction to the principles of computer-aided design drafting.

**ENTC 2200. Machine Tool Technology (4 credits)** — *Prerequisites:* ENTC 1110 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 laboratory.

**ENTC 2310. Electrical Principles (4 credits)** — *Prerequisites:* 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 laboratory.

**ENTC 2320. Electronics I (4 credits)** — *Prerequisites:* 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 laboratory.

**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 laboratory.

**ENTC 2420. Residential and Commercial Planning (4 credits)** — *Prerequisite:* 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 laboratory.

**ENTC 2440. Mechanical Systems (4 credits)** — *Prerequisite:* ENTC 2410-2420, *corequisite:* PHYS 2010/2011. 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 laboratory.

**ENTC 2989-99. Cooperative Education (1-3,1-3 credits)**

**ENTC 3010. Statics and Strength of Materials (4 credits)** — *Prerequisites:* MATH 1850 and PHYS 2010/2011. 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 Laboratory.

**ENTC 3020. Technology and Society (3 credits)** — *Prerequisites:* 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)** — *Prerequisites:* ENGL 1010 and 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:* Admission to College of Applied Science and Technology or University Honors Program. Analysis of the materials and methods of research appropriate to Applied Science and Technology.

**ENTC 3120. Engineering Design Modeling (4 credits)** — *Prerequisite:* ENTC 1130, ENTC 2170 or 2160. Modeling associated with the field of design. Laboratory activity includes development of a comprehensive model.

**ENTC 3140. Technical Illustration (3 credits)** — An introductory study in rapid 3-D visualization and illustration techniques using traditional media. Lecture and laboratory.

**ENTC 3170. Network Systems (4 credits)** — *Prerequisites:* ENTC 2320. An introduction to Network Hardware. Both wire and wireless systems will be examined. Hardware for LAN, 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 laboratory.

**ENTC 3240. Engineering Materials and Testing (4 credits)** — *prerequisite:* ENTC 2200 and CHEM 1110/1111. 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 laboratory.

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

**ENTC 3320. Electronics II (4 credits)** — *Prerequisites:* ENTC 2320, 3310. Multistage amplifiers, coupling, frequency response, classes of amplification, power amplifiers, feedback amplifiers, sinusoidal oscillators, multivibrator circuits and operational amplifier circuits. Lecture and laboratory.

**ENTC 3340. Electrical Machinery (3 credits)** — *Prerequisite:* ENTC 2310. Motors, generators, alternators, motor controllers, three phase electrical systems, polyphase transformers, wattmeters. Lecture and laboratory.

**ENTC 3350. Industrial Electronics (3 credits)** — *Prerequisite:* 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:* 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 laboratory.

**ENTC 3400. Construction Materials (4 credits)** — *Prerequisites:* ENTC 2410 and PHYS 2010/2011. 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 Laboratory.

**ENTC 3410. Construction Estimating & Planning (4 credits)** — *Prerequisites:* 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 laboratory.

**ENTC 3420. Advanced Construction Estimating & Planning (4 credits)** — *Prerequisite:* 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 laboratory.

**ENTC 3430. Materials & Methods I (4 credits)** — *Prerequisites:* 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 laboratory.

**ENTC 3440. Materials & Methods II (3 credits)** — *Prerequisite:* 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:* 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)** — *prerequisites:* MATH 1840 and PHYS 2010/2011. 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)** — Practical application of commercial house wiring and electrical code. Electrical machines and controls, electronic devices. Geared for construction technology and technology education students only or permission of instructor.

**ENTC 3660. Communication Systems Technology (3 credits)** — *Prerequisite:* 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)** — *Prerequisites:* ENTC 1110 and 1600 or permission of the instructor. This course focuses on the design and operating principles involved with the conversion, transmission, control, and use of power and energy. The course also explores the development and significance of energy and power and transportation systems. Lecture and laboratory.

**ENTC 3680. Polymers and Composites (3 credits)** — *Prerequisites:* ENTC 1120 and CHEM 1110/1111. 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 laboratory.

**ENTC 3690. Desktop Publishing (4 credits)** — Basic processes, materials, occupations, organization, and significance of the graphic arts and communication industries. Areas of study will include historical methods of written communication, usage and design of type, page layout, graphic design, color usage, and computer-based production. Lecture and laboratory.

**ENTC 3710. Manual Numerical Control Programming (3 credits)** — *Prerequisites:* ENTC 1110 and 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 interpolation, canned cycles, loops, and subroutines to produce workpieces of increasing complexity. Lecture and laboratory.

**ENTC 3989-99. Cooperative Education (1-3,1-3 credits)**

**ENTC 4017/5017. Industrial Supervision (3 credits)** — *Prerequisite:* PSYC 1310. 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:* 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 4048. Honors International Study (3 credits)** — *Prerequisites:* 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 4037/5037. Quality Assurance I (3 credits)** — *Prerequisite:* 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:* ENTC 4037. Special process control charting defect, moving average and CuSum charts. Sequential sampling and 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 4060. Project Scheduling (3 credits)** — *Prerequisite:* 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)** — *Prerequisites:* ENTC 2200 and 2170. A study of the design concepts for industrial tooling including stamping dies and molds. Materials selection, heat treatment specifications, off-the-shelf tooling components, and make/buy decisions. Utilization of CADD facilities to execute designs. Lecture and laboratory.

**ENTC 4227/5227. Engineering Economy (3 credits)** — *Prerequisites:* 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:* MATH 1720 and 1530. A study of methods used to improve production, set time standards, and analyze productivity. Lecture and laboratory.

**ENTC 4247/5247. Industrial Operations Analysis (3 credits)** — *Prerequisite:* ENTC 2200 and the MATH 1040/1060/1070/1080 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 & Materials Handling (3 credits)** — *Prerequisite:* 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:* 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 laboratory.

**ENTC 4277/5277. Instrumentation and Process Control (4 credits)** — *Prerequisite:* 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 PLCs and microcomputers. Lecture and laboratory.

**ENTC 4287/5287. Introduction to Robotics (3 credits)** — *Prerequisite:* 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 laboratory.

**ENTC 4310. Electronics-Communications (4 credits)** — *Prerequisite:* ENTC 3330. 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 laboratory.

**ENTC 4337/5337. Microprocessors (4 credits)** — *Prerequisite:* 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 laboratory.

**ENTC 4347/5347. Digital Signal Processors (4 credits)** — *Prerequisite:* 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 laboratory.

**ENTC 4350. Biomedical Instrumentation I (4 credits)** — *Prerequisites:* HSCI 2020-2021, 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. Also, 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:* 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.

**ENTC 4360. BMET Internship I (2 credits)** — *Prerequisites:* HSCI 2020-2021, PUBH 2750, ENTC 3320. *Corequisite:* 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)** — *Prerequisites:* 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)** — *Prerequisites:* ENTC 4350, ENTC 4360. *Corequisite:* 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 being assigned to an internship.

**ENTC 4390. Medical Imaging Equipment Technology (3 credits)** — *Prerequisite:* 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 & Administration (3 credits)** — *Prerequisites:* ENTC 2410, 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)** — *Prerequisites:* 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 Laboratory.

**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:* 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, and cutter path definition statements. Links and post processors. Syntax conventions. Writing, running, and debugging source programs to generate list/cutter location files and tape files. Lecture and laboratory.

**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:* 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)** — *Prerequisites:* 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)** — *Prerequisites:* 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, 1-3 credits)**

**Graduate Course Listing**

For descriptions and Prerequisites 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 & Effects	(6 credits)
ENTC 5600.	History & Philosophy of Voc. Ed.	(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, 1-3 credits)
ENTC 5990.	Readings and Research	(1-3 credits)

**Environmental Health**

**ENVH**

Note: Students should take courses in the sequence listed.

**ENVH 1800. 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 2989. Cooperative Education (1-3 credits)**

**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)** — 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 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 4080. Environmental Health Practice (3 credits)** — *Prerequisite:* 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:* CHEM 1110/1111 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:* CHEM 1110/1111 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)** — *Prerequisites:* CHEM 2010/2011 and HSCI 3321 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:* A course in general microbiology HSCI 3320/3321 or HSCI 3330/3331 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)** — *Prerequisites:* Seniors only. CHEM 1110/1111 and 1120/1121 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)** — *Prerequisites:* ENVH 3100, 3400, 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 4607/5607. Food Sanitation Principles (3 credits)** — *Prerequisite:* General microbiology, HSCI 3320/3321 or HSCI 3330/3331. A study of food composition, engineering principles, processing and preservation methods, food-borne diseases, and food regulatory programs.

**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 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 prerequisites 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 each)
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/Community Nursing FCNU

**FCNU 2010. Care of Communities I (3 credits)** — *Prerequisite:* Admission to the nursing major or permission of the department. *Pre- or Corequisite:* PMNU 2310. Community assessment is the focus of this course considering historical, social, political, economic, cultural, and ethical issues. Based on application of epidemiological principles to actual community assessments, population-focused prevention strategies are planned.

**FCNU 2030. Health Assessment (3 credits)** — *Prerequisites:* HSCI 3000 or HSCI 2010/11 & 2020/21; Admission to the major or permission of the department. *Pre- or corequisites:* HSCI 3020 or 3022, PMNU 2310. This is the first in a series of two health assessment courses. Emphasis is given to the acquisition of history-taking skills and physical examination techniques in laboratory and community settings. Students will learn skills primarily with young and middle-aged adults.

**FCNU 3028. Health Assessment for Public Health Nurses (3 credits)** — *Prerequisite:* HSCI 3000 (or equivalent); Current active licensure as a registered nurse. 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 3030. Assessment of Special Populations (2 credits)** — *Prerequisite:* FCNU 2030 or permission of the department. This course is the second in the series of health assessment courses. The focus is on variations of health status related to developmental or other special characteristics of at-risk and vulnerable populations across the lifespan.

**FCNU 3040. Care of Infants and Children (2 credits)** — *Prerequisite:* ALNU 3021. *Pre- or corequisite:* FCNU 3060. This course focuses on the care of infants and children from birth to preadolescence. Developmental and situational circumstances that affect health and illness are explored. Nursing interventions are taught that promote and restore health or assist children and their families in adapting to hospitalization and chronic or terminal illnesses.

**FCNU 3050. Care of Adolescents and Young Adults (4 credits)** — *Prerequisite:* ALNU 3021. *Pre- or corequisite:* FCNU 3060. Course content focuses on the physical and behavioral health care of adolescents and young adults as clients within the family and as members of the community. Emphasis is placed on the developmental factors of adolescence, young adulthood, and reproductive health.

**FCNU 3051. Adult and Family Care II (8 credits)** — *Prerequisite:* ALNU 3021. *Pre- or corequisites:* FCNU 3040, 3050, & 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 3060. Nursing Process and Research in Family Care (2 credits)** — *Prerequisite:* PMNU 2020 or the equivalent. This course emphasizes the relationship of theory, practice, and research pertaining to the care of families within health care delivery systems.

**FCNU 3300. Promoting Academic Success in Nursing (1 credit)** — *Prerequisite:* 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. May be repeated (Elective)

**FCNU/ALNU/PMNU 4008. Honors Mentorship in Nursing (1 credit)** — may be taken twice for credit. *Prerequisite:* Acceptance into the College of Nursing Honors Program. An individualized course in which the student collaborates with a mentor to create a program of learning that supports academic and professional goals.

**FCNU/ALNU/PMNU 4018. Nursing Honors Thesis (3 or 6 credits)** — *Prerequisites:* Admission to the College of Nursing Honors 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 4040. Care of Communities II (3 credits)** — *Prerequisite:* ALNU 3051 or equivalent. 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:* 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 4807/5807. Global Health Issues (3 credits)** — *Prerequisite:* 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 USA. (Elective)

**FCNU 4900. Nursing Independent Study. (1-3 credits)**

**FCNU 4907/5907. International Primary Health Care Practicum (3 credits)** — *Prerequisite:* FCNU 4807/5807 Global Health Issues 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 international health care in order 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:* 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.

**FCNU/ALNU/PMNU 4989. Cooperative Education in Nursing (3 credits)** — *Prerequisite:* 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 prerequisites see the *Graduate Catalog*.

FCNU 5020. Family Systems	(2 credits)
FCNU 5021. Life Span Assessment & Clinical Management: Women's Health	(2 credits)
FCNU 5022. Life Span Assessment & Clinical Management: Women's Health Practicum	(3 credits)
FCNU 5023. Life Span Assessment & Clinical Management: Children and Adolescents	(2 credits)
FCNU 5024. Life Span Assessment & Clinical Management: Children and Adolescents Practicum	(3 credits)
FCNU 5950. Internship in Advanced Nursing Practice	(4 credits)
FCNU 5900. Independent Study	(1-3 credits)
FCNU 5960. Thesis	(1-6 credits)
FCNU 5990. Readings and Research	(1-3 credits)



**Finance  
FNCE**

NOTE: All students enrolling in 3000- and 4000-level (upper division) College of Business 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)** — *Prerequisites:* ECON 2210 and 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:* 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:* ACCT2010. 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:* 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:* FNCE 3220 and a declared major. An advanced course in financial management emphasizing capital asset selection under conditions of risk.

**FNCE 4018. Senior Honors Seminar (3 credits)** — *Prerequisites:* ECON 3088 and admission to the College of Business Honors Program. A seminar for College of Business 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 faculty.

**FNCE 4320. Real Estate Appraisals (3 credits)** — *Prerequisite:* 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:* 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:* 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:* 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:* 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)** — *Prerequisites:* FNCE 3220 and ECON 3310. The workings of financial markets and institutions with special reference to banking.

**FNCE 4500. Credit Management (3 credits)** — *Prerequisite:* 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:* FNCE 3220. 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:* FNCE 3300. Selection and valuation of portfolios of securities.

**FNCE 4597/5597. International Financial Management (3 credits)** — *Prerequisite:* FNCE 3220. 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)** — *Prerequisites:* FNCE 3300, 3500, 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)** — *Prerequisites:* FNCE 3300, 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)** — *Prerequisites:* 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 markets; futures, options, international performance analysis; 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)** — *Prerequisites:* (Must have completed a minimum of six semester credits at the upper-division level in the student's major, junior or senior standing, and a grade point average of 2.7 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)** — *Prerequisites:* Must have completed a minimum of six semester credits at the upper-division level in the student's major, junior or senior standing and a GPA of 2.7 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)** — *Prerequisites:* Senior. This course gives students an opportunity to study special problems and new developments in the field of finance.

**Finance Graduate Course Listing**

For descriptions and Prerequisites see the *Graduate Catalog*.

- FNCE 5000. Essentials of Finance (3 credits)
- FNCE 5490. Security Analysis and Portfolio Management (3 credits)
- FNCE 5600. Case Study in Banking (3 credits)
- FNCE 5900. Independent Study in Finance (1-3 credits)

**French  
FREN**

**FREN 1010-20. Beginning FREN (3, 3 credits)** — Introduction to the French language and to the culture, geography, and history of French-speaking countries.

**FREN 2010-20. Second-Year French (3, 3 credits)** — Continuation of first year, with an introduction to French literature.

**FREN 3010-3110. French Conversation and Composition (3,3 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 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 prerequisites see the *Graduate Catalog*.

FREN 5900. Special Studies in French (1-6 credits)

#### Geography GEOG

**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 laboratory 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 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:* Admission to College of Applied Science 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 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)** — *Prerequisites:* Admission to the College of Applied Science 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 2210. 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 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)** — *Prerequisites:* ENGL 1010 and 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:* Admission to the College of Applied Science 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 & 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 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:* 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, 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)** — *Prerequisites:* GEOG 3210 or permission of instructor. A second course in the study of the science and art of mapmaking. Emphasis is placed upon three components of modern cartography: 1) the input, storage, and output of digital spatial data; 2) advanced and contemporary thematic mapping techniques; and 3) 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:* 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)** — *Prerequisites:* Satisfactory completion of all College of Applied Science 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:* 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:* 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:* 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 level.

**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 & Earth Science (3 credits)** — A course in methods and materials for teaching geography in grades seven-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:* Permission of department chair is required.

**GEOG 4957/5957. Topic in \_\_\_\_\_ (2-6 credits)** — *Prerequisites:* 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, 1-3 credits)**

**Graduate Course Listing**

For descriptions and prerequisites 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 and 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, 1-3 credits)
GEOG 5990. Readings & 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 credits lecture and two laboratory periods 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 credits lecture and two laboratory periods per week.

**GEOL 2480. Geology Field Methods (4 credits)** — *Prerequisites:* GEOL 1040, 1002, 3580, 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, structure description and analysis will be treated. Three credits lecture and two laboratory periods per week.

**GEOL 2989. Cooperative Education (3 credits)**

**GEOL 2999. Cooperative Education (3 credits)**

**GEOL 3011. Economic Geology I (3 credits)** — *Prerequisites:* GEOL 1040, 1002, and 3112. A study of the origin, nature, distribution, and exploitation of the major metallic minerals.

**GEOL 3012. Economic Geology II (3 credits)** — *Prerequisites:* GEOL 1040, 1002, and 3112. Emphasis on industrial mineral deposits, fossil and mineral fuels, and alternate energy sources.

**GEOL 111. Mineralogy I (4 credits)** — *Prerequisites:* GEOL 1040, 1002, and introductory chemistry. The study of minerals through their crystal structure and morphology, and their optical properties.

**GEOL 3112. Mineralogy II (4 credits)** — *Prerequisites:* GEOL 1040, 1002, and introductory chemistry. Identification of the major rock forming and accessory minerals, their environments of formation and their common associations.

**GEOL 3391. Invertebrate Paleontology (4 credits)** — Principles of taxonomy, classification, paleoecology, evolution, and geologic records of the major invertebrate phyla are considered. Three credits lecture and two laboratory periods each week.

**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)** — 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.

**GEOL 3580. Structural and Engineering Geology (4 credits)** — *Prerequisites:* GEOL 1040, 1002, and Trigonometry. A study of rock structures, mechanics of deformation, and regional structural styles. Three credits lecture and two laboratory periods per week.

**GEOL 3989. Cooperative Education (3 credits)**

**GEOL 3999. Cooperative Education (3 credits)**

**GEOL 4120. Petrography (4 credits)** — *Prerequisite:* GEOL 3112 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.

**GEOL 4540. Sedimentation-Stratigraphy (4 credits)** — *Prerequisites:* GEOL 1040, 1002, 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.

**GEOL 4900. Senior Thesis (4 credits)** — *Prerequisite:* Permission of department chair is required.

**GEOL 4905. Independent Study (1-4 credits)** — *Prerequisite:* 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.

**GEOL 4989. Cooperative Education (3 credits)**

**GEOL 4999. Cooperative Education (3 credits)**

### German GERM

**GERM 1010-20. Beginning German (3,3 credits)** — Introduction to the German language, and to the culture, geography, and history of German-speaking countries.

**GERM 2010-20. Second-Year German (3, 3 credits)** — 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, 3 credits)** — Practice in conversation, with emphasis on idioms, syntax, and current expressions. Study of grammar through written compositions.

**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 prerequisites 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 & Life Skills (3 credits)** — An introduction to the theory and practice of career planning and decision making with an emphasis on: (1) occupational choice; (2) self-assessment; (3) career decision making; (4) occupational information; and (5) selection of a college major. Students will be expected to apply this knowledge to the development of a personal career plan.

**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 (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 3117. Learning Environments in Early Childhood (3 credits)** — *Prerequisite:* AHSC 2110 and admission to teacher education. A study of the basic principles of good health as they relate to the child in the family, child care center, and the community. Accident prevention and safety will receive special attention. Issues related to development of appropriate learning environments will be explored.

**HDAL 3130. Evaluations of Young Children (3 credits)** — *Prerequisites:* AHSC 2110, 2120, 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.

**HDAL 3155 Creative Development in 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.

**HDAL 3310. Educational Psychology (3 credits)** — *Prerequisites:* HDAL 2310, 2320, 2325, or 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)** — *Prerequisites:* PSYC 1310 and HDAL 2310 or 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)** — *Prerequisites:* PSYC 1310 and HDAL 2310 or 2320. A study of human biological and behavioral development in the context of hereditary, environmental, and evolutionary influences.

**HDAL 4150. Literacy in Young Children (3 credits)** — *Prerequisites:* AHSC 2110, 2120, HDAL 3117, 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.

**HDAL 4217/5217. Program Planning in Early Childhood (3 credits)** — *Prerequisites:* AHSC 2110, 2120 HDAL 3117, 3130 and admission to Teacher Education. Analyzes children's thinking as it influences curriculum design in early childhood. Explores the educational needs of the young child in the cognitive realm of scientific, social, mathematical, and language learning. Field participation in early childhood is required.

**HDAL 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.

**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 4517/5517. Family, Community, and School K-8 (3 credits)** — *Prerequisite:* Admission to Teacher Education. Theoretical models of home-school relations will be examined as they have evolved through the 20<sup>th</sup>/ 21<sup>st</sup> century. 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.

**HDAL 4617/5617. Student Teaching: Primary/Early Childhood Practicum (6 credits)** — *Corequisite:* Must be taken in conjunction with AHSC 4167 and EDFN 4581. A supervised 150-credit teaching practicum in an approved Early Childhood primary grade program. Seminars will be held to coordinate and evaluate the student teaching experience.

**HDAL 4666. Cultural Influences in Development (3 credits)** — *Prerequisites:* PSYC 1310 and HDAL 2310 or 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:* 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)** — *Prerequisites:* PSYC 1310 and MATH 1080 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. Special Topics in Human Development and Learning (1-6 credits)**

#### Graduate Course Listing

For descriptions and prerequisites 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 5830. Individual Mental Testing (also Psychology 5830)	(4 credits)
HDAL 5860. Theories of Learning	(3 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

HDAL 5210. Advanced Child Development	(3 credits)
HDAL 5330. History & Philosophy of Early Childhood Education (3 credits)	
HDAL 5331. Infancy	(3 credits)
HDAL 5332. Designing An Early Childhood Environment	(3 credits)
HDAL 5333. Designing an Early Childhood Environment: Learning in Infants and Young Children	(3 credits)
HDAL 5334. Social Development of Young Children	(3 credits)
HDAL 5335. Assessment of Young Children	(3 credits)
HDAL 5344. Parent Education and Involvement	(3 credits)
HDAL 5345. Research in Early Childhood Education	(3 credits)
HDAL 5352. Theories of Play	(3 credits)
HDAL 5355. Administration and Management of Programs in Early Childhood	(3 credits)
HDAL 5356. Language Development in Early Childhood	(3 credits)
HDAL 5440. Treating Abuse in the Family	(3 credits)
HDAL 5590. Student Teaching in Early Childhood Program	(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:* 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:* 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)** — *Prerequisites:* HIST 1120, 2010, 2020, or by permission of instructor. 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; 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 U.S. 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 U.S. 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, 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 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)** — *Prerequisites:* HIST 2010 and 2020. 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)** — *Prerequisites:* HIST 2010 and 2020. 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 U.S. 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 U.S. 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 fourth 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:* 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; 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 and 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 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)** — *Prerequisites:* Suggested that majors and minors have taken HIST 1110 or 1120, 2010 and 2020. 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 prerequisites 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 (3 credits)** — An introductory course in anatomy and physiology. Includes a study of the skeletal, muscular, respiratory, and digestive systems of man. Two hours lecture.

**HSCI 2011. Anatomy and Physiology Laboratory I (1 credit)** — *Prerequisite* or Concurrent: HSCI 2010. Consists of the study of anatomy using charts, models, manikins, slides, and dissection of animals. Appropriate laboratory exercises in physiology are included. Laboratory will cover those systems listed under HSCI 2010. One two-hour laboratory per week.

**HSCI 2020. Anatomy and Physiology II (3 credits)** — *Prerequisites:* HSCI 2010. Continuation of HSCI 2010. Includes a study of the circulatory, excretory, reproductive, and nervous systems. Two hours lecture.

**HSCI 2021. Anatomy and Physiology Laboratory II (1 credit)** — *Prerequisite* or concurrent: HSCI 2020. Continuation of HSCI 2011. Laboratory will cover those systems listed under HSCI 2020. One two-hour laboratory per week.

**HSCI 2230. Introduction to Microbiology (4 credits)** — A survey of the principles and techniques of microbiology, parasitology, virology, immunology, and laboratory procedures, with special application to disease prevention and health maintenance. (Student must register for HSCI 2231 also and receives common grade.)

**HSCI 2231. Introduction to Microbiology Laboratory (0 credits)** — Laboratory designed to coordinate with Introduction to Microbiology HSCI 2230. Two one-hour laboratories per week. (Student must register for HSCI 2230 also and receives common grade.)

**HSCI 3000. Human Anatomy (4 credits)** — *Prerequisite:* 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 three hours laboratory per week.

**HSCI 3020. Human Physiology (4 credits)** — Recommended: HSCI 3000. Inorganic chemistry recommended. 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 three hours laboratory per week.

**HSCI 3320. General Microbiology (4 credits)** — *Prerequisites:* One year college biological sciences and one year inorganic chemistry recommended. 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. (Student must register for HSCI 3321 also and receives common grade.)

**HSCI 3321. General Microbiology Laboratory (0 credits)** — 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 *Prerequisite* to advanced courses. Two two-hour laboratories per week. (Student must register for HSCI 3320 also and receives common grade.)

**HSCI 3510. Pathogenic Microbiology (3 credits)** — *Prerequisite:* HSCI 3320. A lecture and laboratory course designed to introduce the student to the basic techniques for the isolation and identification of pathogenic bacteria and the relationship of these pathogenic bacteria to infectious disease processes.

**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 4067/5067. Neurology (4 credits)** — *Prerequisites:* 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 two two-hour laboratories per week.

**HSCI 4480. Clinical Parasitology (4 credits)** — *Prerequisite:* 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 two two-hour labs per week.

**HSCI 4590. Independent Studies (1-4 credits)** — *Prerequisites:* 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 credits.

**HSCI 4607/5607. Bacterial Physiology (3 credits)** — *Prerequisites:* HSCI 3320 and Organic Chemistry required, 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 (2 credits)** — *Prerequisites:* A course in cellular or microbial biology and organic chemistry. The principles of genetic transmission by meiotic mechanisms, the organization of the hereditary material and the nature of its expression, recombination mechanisms-methods of genetic mapping; and analysis of complementation and fine structure. Two hours lecture.

**HSCI 4747/5747. Mycology (4 credits)** — *Prerequisites:* 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 two two-hour laboratories per week.

**HSCI 4770. Virology (2 credits)** — *Prerequisites:* HSCI 3320 or equivalent. A study of the current concepts of the chemistry, structure, replication, and interaction of animal viruses with their host cells. Two hour lecture.

**HSCI 4771. Virology Laboratory (2 credits)** — *Prerequisites* or *corequisite:* HSCI 4770. Laboratory experiments will be conducted which illustrate basic techniques used to study the physical, chemical, and serological properties of viruses. Two two-hour laboratories per week.

**HSCI 4957/5957. Special Topics in Health Sciences (2-6 credits)** — *Prerequisite:* 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. Cooperative Education (1-3 credits)**

**HSCI 4999. Cooperative Education (1-3 credits)**

### Graduate Course Listing

For descriptions and prerequisites 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 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 written and oral expression and on exposing the student to potential career choices. Requires a 40-credit service placement and a one-day service project with students from other campuses.

**HUMT 2000. Advanced Service-Learning (3 credits)** — *Prerequisites:* Completion of HUMT 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.

**HUMT 2310. Introduction to the Humanities I: Ancient Greece to 1400 (3 credits)** — An examination of the arts and ideas of ancient and medieval cultures.

**HUMT 2320. Introduction to the Humanities II: 1400 to Present (3 credits)** — An examination of the arts and ideas of modern cultures. HUMT 2310 is not a *Prerequisite* for this course.

**HUMT 3000. Cherokee Immersion Project (3 credits)** — 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, N.C., and participating in service projects designated by the Cherokee. Permission of instructor required. Students must also register for PHED 2555 Outdoor Living Skills. Students must contact instructor(s) for interview prior to registering for courses.

**HUMT 4930. Independent Studies in Humanities (3 credits)**

**HUMT 4950. Senior Seminar (3 credits)**

### Japanese

#### JAPN

**JAPN 1010-20. Beginning Japanese (3, 3 credits)** — Introduction to the Japanese language, both spoken and written, and to the culture and customs.

**JAPN 2010-20. Second-Year Japanese (3, 3 credits)** — Continuation of the first year.

**JAPN 3015-25. Japanese Conversation and Composition (3, 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, 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, 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:* Completion of ENGL 1010 and 1020; 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:* 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:* 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:* 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:* 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:* 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:* 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:* JOUR 2120 or permission of instructor. Writing non-fiction articles for consumer magazines as well as business, trade, and professional publications.

**JOUR 4080. Journalism Internship (3 credits)** — *Prerequisite:* Permission of instructor. Supervised professional experience in journalism.

**JOUR 4107/5107. Reporting Public Affairs (3 credits)** — *Prerequisite:* 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 expenses.

**JOUR 4420. Magazine Editing and Production (3 credits)** — *Prerequisite:* 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 (2-6 credits)**

**Graduate Course Listing**

For description and prerequisites see the *Graduate Catalog*.

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, RUSS, 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, 3 credits)** — Introduction to Latin vocabulary, syntax, conjugations, and declensions, working toward prose and poetry.

**LATN 2010-20. Second-Year Latin (3, 3 credits)** — 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 1090. Seminar in Mathematics I (2 credits)** — *Prerequisite:* Successful completion of Calculus I or concurrent enrollment in MATH 1910. Designed to introduce mathematics majors to areas of mathematics other than calculus at a beginning level.

**MATH 1410. Number Concepts & Algebraic Structure (3 credits)** — *Prerequisite:* 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:* 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)** — *Prerequisites:* 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 1531. Statistical Computing (1 credit)** — *Corequisite:* MATH 1530. Open only to majors in Computer Science. The use of computers to do basic statistical analysis including tabulation, graphing regression, estimation and test of hypothesis.

**MATH 1710. College Algebra (3 credits)** — *Prerequisites:* Two years of high school algebra. The real number system, linear and quadratic equations, Cartesian coordinates, systems of equations, and applications.

**MATH 1720. Precalculus (3 credits)** — *Prerequisites:* Two years of high school algebra or 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 1810. Analysis for Business (3 credits)** — *Prerequisites:* Two years of high school algebra. Course is designed for business majors. Topics include algebra, functions, graphs, systems of linear equations, matrices, average rates, limits, instantaneous rates, and differentiation.

**MATH 1820. Calculus for Business (3 credits)** — *Prerequisite:* MATH 1810. Elementary calculus course designed for business students. Topics include applications of the derivative, exponential and logarithmic functions, integration, and functions of several variables.

**MATH 1840. Analytic Geometry and Differential Calculus (3 credits)** — *Prerequisites:* 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:* 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)** — *Prerequisites:* 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:* MATH 1910. Applications of the integral, inverse trigonometric functions, exponential and logarithmic functions, techniques of integration, indeterminate forms and improper integrals, sequences and series.

**MATH 2010. Linear Algebra (3 credits)** — *Prerequisites:* MATH 1840, 1820, or 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)** — *Prerequisites:* 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 2110. Calculus III (4 credits)** — *Prerequisite:* MATH 1920. Conics, parametric equations and polar coordinates, vectors and vector-valued functions, multivariate calculus.

**MATH 2120. Differential Equations (3 credits)** — *Prerequisites:* MATH 1920 and 2010. First order differential equations and applications. Second and higher order linear differential equations; applications. Laplace transforms. Systems of differential equations.

**MATH 2710. Discrete Structures (3 credits)** — *Prerequisite:* MATH 1840 or 1910. Set theory, mathematical induction and recursion, relations and digraphs, functions, trees and languages, semigroups, finite-state machines, and languages.

**MATH 2780. Statistical Data Analysis (3 credits)** — *Prerequisites:* MATH 1530 or 2050. This is an applied and computer-oriented course. Production of data through experimentation and surveys, work with sources of statistical data in the Internet. Preparation and handling of data files using SPSS and SAS. Analysis of categorical and quantitative data: tests and statistics for two way tables, simple and multiple regression, one- and two-way ANOVA.

**MATH 2800. Mathematical Reasoning (3 credits)** — *Prerequisites:* MATH 1920 and 2010. Introduction to mathematical methods and arguments using the subjects of logic, set theory, number theory, geometry, algebra, and analysis.

**MATH 2989. Cooperative Education (1-3 credits)** — *Prerequisites:* MATH 2110 and 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)** — *Prerequisites:* MATH 2110, 2800, and 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 3090. Seminar in Mathematics II (2 credits)** — *Prerequisites:* MATH 1920 and 2010. Designed to introduce students to other areas of mathematics not normally covered in the undergraduate curriculum, including recent advances.

**MATH 3120. Elementary Number Theory (3 credits)** — *Prerequisites:* MATH 2800 & junior or senior status. Introduction to number theory, treating divisibility, congruences, linear Diophantine equations and quadratic residues. Some history of the development of the discipline will also be included.

**MATH 4047/5047. Mathematical Statistics I (3 credits)** — *Prerequisites:* MATH 2050, 2010 and 2110. An introduction to the theory of probability and mathematical statistics. Topics will include discrete and continuous probability distributions and their applications, mathematical expectations and moment generating functions, functions of random variables and transformations, sampling distributions, the central limit theorem, Chi-square, t and F distributions.

**MATH 4057/5057. Mathematical Statistics II (3 credits)** — *Prerequisites:* MATH 4047 or 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 as well as the Neyman-Pearson lemma, power functions, likelihood ratio tests, hypothesis tests, and applications.

**MATH 4127/5127. Introduction to Modern Algebra (3 credits)** — *Prerequisites:* MATH 2010 and 2800. Introduction to the basic algebraic systems, including groups, rings, integral domains, and fields.

**MATH 4130. Introduction to Modern Algebra II (3 credits)** — *Prerequisites:* 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.

**MATH 4157/5157. Introduction to Modern Geometry (3 credits)** — *Prerequisites:* MATH 2250 and 2800 (or concurrent enrollment). 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)** — *Prerequisites:* MATH 2110 and 2800. Elements of point set topology, limits and continuity, differentiability, Taylor's theorem, approximation, Riemann integral.

**MATH 4227/5227. Analysis II (3 credits)** — *Prerequisite:* 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.

**MATH 4257/5257. Numerical Analysis (3 credit)** — (Co-listed in Computer Sci.) *Prerequisites:* MATH 1920, 2010, and CSCI 1250. 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.

**MATH 4267/5267. Numerical Linear Algebra (3 credits)** — (Co-listed in Computer Sci.) *Prerequisites:* MATH 1920, 2010, and CSCI 1250. Direct and iterative techniques for solving systems of linear equations, curve fitting, and eigenvalue-eigenvector methods.

**MATH 4287/5287. Applications of Statistics (3 credits)** — *Prerequisite:* MATH 1530, or 2050, or 4047, or permission of instructor. Topics covered include statistical methods for rates, ratios, various nonparametric procedures, regression, correlation, and analysis of variance. A course designed for the physical and social science students.

**MATH 4307/5307. Sampling and Survey Techniques (3 credits)** — *Prerequisite:* 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 4337/5337. Complex Variables (3 credits)** — *Prerequisites:* MATH 1920 and 2010. Complex numbers and their algebra, complex differentiation and integration, analytic and elementary functions, residues and power series.

**MATH 4340. Applied Combinatorics and Problem Solving (3 credits)** — *Prerequisites:* MATH 2800, 4127 or permission of instructor. Topics include basic counting techniques, generating functions, recurrence relations, and applications of these.

**MATH 4350. Combinatorics and Graph Theory II (3 credits)** — *Prerequisites:* MATH 4340 or permission of instructor. Topics include the inclusion/exclusion principle, Polya theory of counting, the pigeon hole principle, Ramsey theory, graph theory, and experimental design. Optional topics include coding theory and optimization.

**MATH 4377/5377. The Theory of Interest (3 credits)** — *Prerequisites:* 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)** — *Prerequisites:* MATH 2050 and 4377/5377, or equivalent courses, 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)** — *Prerequisites:* MATH 4387/5387 or permission of instructor. This is 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)** — *Prerequisites:* MATH 4127 and 4157 (or concurrent enrollment). 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.

**MATH 4900. Independent Study (2-6 credits)** — *Prerequisite:* 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)** — *Prerequisites:* MATH 2110 and 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:* MATH 4127. Designed for students who wish to pursue a temporary apprenticeship or experiential activity in a cooperative and endeavor with an approved agency.

**MATH 4999. Cooperative Education (3 credits)** — Same as above.

#### Graduate Course Listing

For description and prerequisites 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 I	(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 & II	(3, 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 & II	(3, 3 credits)
MATH 5510-20.	Complex Analysis I & II	(3, 3 credits)
MATH 5610-20.	Applied Mathematics I & II	(3, 3 credits)
MATH 5710-20.	Statistical Methods I & II	(3, 3 credits)
MATH 5810-20.	Operations Research I & II	(3, 3 credits)
MATH 5850-60.	Numerical Analysis I & II	(3, 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	(variable)

#### 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 4040. Seminar in Mass Communications (1-6 credits)**

— A study of recent literature on developments and trends in mass communications. May be repeated.

**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 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 prerequisites see the *Graduate Catalog*.

MCOM 5010.	Comparative Mass Media Systems	(3 credits)
MCOM 5020.	Media and Cultural Diversities	(3 credits)
MCOM 5030.	Media and the First Amendment	(3 credits)
MCOM 5037.	Communications Law	(3 credits)
MCOM 5040.	Seminar in Mass Communications	(1-6 credits)
MCOM 5050.	Public Opinions	(3 credits)
MCOM 5060.	Seminar Media Ethics	(3 credits)
MCOM 5900.	Independent Studies in Mass Communications	(1-3 credits)
MCOM 5957.	Topics in Mass Communications	(2-6 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 (3 credits)** — *Prerequisites:* 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 4507/5507. Principles of Instructional Design and Production (3 credits)** — This course concentrates on the systematic planning and production of instructional resources designed to meet client specifications. Computer-based media production and desktop presentations are included.

**MEDA 4627/5627. Children's Materials (3 credits)** — Analysis evaluation, and use of library media for children in relation to their needs, interests, and the school curriculum.

**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:* 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 courses must have junior or senior standing.

**MGMT 3000. Organizational Behavior and Management (3 credits)** — *Prerequisite:* 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)** — *Prerequisites:* 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)** — *Prerequisites:* MGMT 3000 and 3050 (may be taken concurrently). 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; facility layout and location; job design and work measurement; logistics, production, inventory, quality, and cost control systems.

**MGMT 3200. Organizational Communications (3 credits)** — *Prerequisite:* 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)** — *Prerequisites:* 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:* 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:* 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:* 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:* 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:* 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:* 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:* 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)** — *Prerequisites:* ECON 3088 and admission to the College of Business Honors Program. A seminar for College of Business 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 faculty.

**MGMT 4020. Organizational Theory and Development (3 credits)** — *Prerequisite:* 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:* Junior Standing. 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 reengineering are developed through lectures and case studies to show the student real-world application.

**MGMT 4210. Systems Analysis and Design (3 credits)** — *Prerequisite:* MGMT 3220. An overview of systems developments techniques including the life cycle and prototyping. There will be an emphasis on the techniques and tools of system documentation and logical system specification. This course will incorporate management practices and principles as they pertain to the analysis, design, and implementation of information systems.

**MGMT 4217/5217. Service Operations Management (3 credits)** — *Prerequisite:* 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:* 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)** — *Prerequisites:* 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:* 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)** — *Prerequisites:* ECON 2210 and 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:* 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:* 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)** — *Prerequisites:* 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 noncompete 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:* 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:* 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:* 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:* MGMT 4510 or instructor's permission. 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:* 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)** — *Prerequisites:* 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:* 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:* 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:* MGMT 4510 or the instructor's permission. 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)** — *Prerequisites:* MGMT 3000 and 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)** — *Prerequisites:* 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:* 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:* 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)** — *Prerequisites:* Must have completed a minimum of six semester credits at the upper-division level in the student's major, junior or senior standing and a GPA of 2.7 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)** — *Prerequisites:* 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)** — *Prerequisites:* 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.

#### Management Graduate Course Listing

For descriptions and prerequisites 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 & Behavior	(3 credits)
MGMT 5401. Rural Health Issues	(3 credits)
MGMT 5505. Managing Health Care Organizations	(3 credits)
MGMT 5525. Health Services Delivery & 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 3000- and 4000-level (upper division) College of Business courses must have junior or senior standing.*

**MKTG 3200. Principles of Marketing (3 credits)** — *Prerequisites:* 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:* 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)** — *Prerequisites:* 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:* 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)** — *Prerequisites:* 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:* 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:* 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)** — *Prerequisites:* MKTG 3200 and 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.

**MKTG 4018. Senior Honors Seminar (3 credits)** — *Prerequisites:* ECON 3088 and admission to the College of Business Honors Program. A seminar for College of Business 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 faculty.

**MKTG 4217/5217. Health Care Marketing (3 credits)** — *Prerequisite:* 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)** — *Prerequisites:* MKTG 3200 and ECON 2080 or equivalents. 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)** — *Prerequisites:* MKTG 3200 and 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:* 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)** — *Prerequisites:* Must have completed a minimum of six semester credits at the upper-division level in the student's major, junior or senior standing and a GPA of 2.7 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)** — *Prerequisites:* MKTG 3200. 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.

## Marketing Graduate Course Listing

For descriptions and prerequisites, 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. Military Practicum I (1 credit)** — Individuals who sign up for MSCI 1110, must also enroll in MSCI 1180. Wearing a military uniform and meeting military appearance standards are required.

**MSCI 1181. Military Practicum II (1 credit)** — Individuals who sign up for MSCI 1181 must also enroll in MSCI 2110. Wearing a military uniform and meeting military appearance standards are required.

**MSCI 1182. Military Practicum III (1 credit)** — Individuals who sign up for MSCI 1182 must also enroll in MSCI 2150. Wearing a military uniform and meeting military appearance standards are required.

**MSCI 1210. Mountaineering, Leadership, and Survival I (3 credits)** — A forum for students to heighten their level of self-confidence while enhancing communication, teamwork, and leadership skills. Provides a series of practical exercises enabling the student to participate as an individual and as a member of a small group in situations of increasing complexity. Low elements of the Basler Challenge course will be incorporated into the instruction as a means of facilitating the team-building experience. Emphasizes ethical considerations for leaders, leadership skills, basic survival skills, marksmanship, and the importance of verbal and non-verbal communication skills.

**MSCI 1217. Basic Military Physical Training (1 credit)** — A physical conditioning class designed to promote high levels of performance on the Army Physical Fitness Test (APFT), and to improve the health, endurance, and strength of the body. This course may be repeated up to four times for credit.

**MSCI 1220. Mountaineering, Leadership, and Survival II (3 credits)** — *Prerequisite:* MSCI 1120 or approval of professor of Military Science. A study of advanced leadership concepts and skills. The course emphasis is on gaining an understanding of the leadership process and the factors that contribute to effective skills in leadership and management. Students will be instructed in advanced climbing, rappelling, survival, land navigation, first aid and drown proofing and the development of training programs related to the previously stated subject areas.

**MSCI 2110. Dynamics of Leadership and Management (2 credits)** — A study of basic leadership concepts, principles, and traits applicable to civilian occupation as well as to the military. Emphasis is on gaining a better understanding of the leadership process and development of sound leadership techniques. Individuals enrolled in MSCI 2110 must also enroll in MSCI 1181.

**MSCI 2150. Military Skills I (2 credits)** — Study of the basic leadership skills needed by the individual soldier to successfully participate in military activities with professional soldiers in garrison and to win on the battlefield. First aid skills, communications, patrolling skills, navigation, drill and inspection, and weapons training are all included. Individuals enrolled in MSCI 2150 must also enroll in MSCI 1182.

**MSCI 2580. Leader's Training Course (variable from 1-6 credits)** — *Prerequisite:* Approval of professor of Military Science. This option is available only for students who did not complete qualification for the Advanced Phase by completing four Basic Phase courses during their freshman and sophomore years. The Basic Camp, conducted at Ft. Knox, Kentucky, is a five-week program designed to challenge and develop the cadets' leadership abilities. It is an intensive course in the fundamentals of soldiering, complete with physical training, marksmanship, map reading, drill and ceremonies, operations, and tactics.

**MSCI 3110. Military Skills II (3 credits)** — *Prerequisite:* Completion of the Basic Course or equivalent or approval of professor of Military Science. Offered fall semester only. A comprehensive study of basic military skills and small unit organization. Includes military map reading techniques, the organization and control of small units, and individual tactical training. Emphasis is on leadership development.

**MSCI 3120. Military Skills III (3 credits)** — *Prerequisite:* Completion of MSCI 3110 or approval of professor of Military Science. Offered during spring semester only. A systematic overview of the roles and responsibilities of the army officer and the continued study of military skills. Includes instruction in teaching techniques, principles of war, fundamentals of land combat, and basic unit tactical training. Emphasis is on application of proper leadership techniques.

**MSCI 3217. Instructional Techniques for Military Physical Training (1 credit)** — (Enrollment limited to contracted military science cadets. Course may be repeated up to three times for credit.) A physical conditioning class designed to prepare MS III and IV cadets to teach, conduct, and evaluate military physical training. In addition to building self-confidence in cadets, the course will also promote high levels of performance on the Army Physical Fitness Test (APFT) and will help prepare cadets for commissioning as second lieutenants.

**MSCI 3940. War in the Modern World (3 credits)** — (Mandatory for commissioning. See course description under Department of History listings.)

**MSCI 4110. Advanced Tactics (3 credits)** — *Prerequisite:* Completion of MSCI 3120 or approval of professor of Military Science. Offered fall semester only. An intensive study of the methods, techniques, principles, and doctrine for the tactical employment of military units at battalion level and below. Lessons learned will be applied through the use of battle simulations. Includes an overview of the Army Staff Organization and Functions.

**MSCI 4120. Advanced Leadership (3 credits)** — *Prerequisite:* Completion of MSCI 4110 or approval of professor of Military Science. Offered spring semester only. An analysis of the individualistic and situational aspects of leadership. Focus is on the dynamics of intergroup communications and the responsibilities of the group leader in varying environments. Emphasis is placed on leadership in stress situations.

**MSCI 4580. National Advanced Leadership Camp (6 credits)** — *Prerequisites:* Completion of MSCI 3110 and 3120. Training conducted at Ft. Lewis, Washington, provides advanced course cadets with practical experience in leadership, methods of instruction, engineering, small unit tactics, weaponry, and communications.

## Music MUSC

**MUSC 1010. Class Piano I (1 credit)** — *Prerequisite:* 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:* MUSC 1010. 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 1201. Marching Band (2 credits)** — Performs for all home football games and various other university and civic functions, including out-of-town trips. Open to all students by consultation with instructor.

**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, and play for juries and other performances as assigned.

**MUSC 1280. Bluegrass Band (1 credit)** — Performance of bluegrass, country, and folk material. Open to those with basic skills on banjo, fiddle, guitar, bass, mandolin, or other appropriate instruments.

**\*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:* MUSC 1410. Continuation of MUSC 1410.

**MUSC 1421. Aural Skills II (1 credit)** — *Prerequisite:* MUSC 1411. 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 1881. Guitar I (Introductory) (1 credit)** — A course for beginners as well as those who have some playing experience. Simple lead playing, accompaniment, with emphasis on clarity, smoothness, and rhythm.

**MUSC 1882. Guitar II (Intermediate) (1 credit)** — An expansion of skills developed in Guitar I. More challenging lead and accompaniment work, plus ensemble playing.

**MUSC 2010. Class Piano III (1 credit)** — *Prerequisite:* MUSC 1020. Continuation of MUSC 1020.

**MUSC 2020. Class Piano IV (1 credit)** — *Prerequisite:* MUSC 2010. Continuation of MUSC 2010.

**MUSC 2120. Country Music (3 credits)** — A study of the history of country music. Listening, lecture, and special projects will be used to explore the development of country music, its most important performers, and traditions.

**MUSC 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.

**MUSC 2410. Theory III (2 credits)** — *Prerequisite:* MUSC 1420. Continuation of Theory I, II. Chromatic harmony and contemporary techniques. Analysis of Romantic and Modern compositions.

**MUSC 2411. Aural Skills III (1 credit)** — *Prerequisite:* MUSC 1421. Continuation of Aural Skills I, II.

**MUSC 2420. Theory IV (1 credit)** — *Prerequisite:* MUSC 2410. Continuation of MUSC 2410.

**MUSC 2421. Aural Skills IV (1 credit)** — *Prerequisite:* MUSC 2411. 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:* 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)** — *Prerequisites:* 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)** — *Prerequisites:* 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:* 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, 1-3 credits)**

**MUSC 3201. Marching Band (2 credits)** — *Prerequisites:* Two semesters of MUSC 1201 and upper-division standing. Open to all students by consultation with instructor. Performs for all home football games and various other university and civic functions, including out-of-town trips. May be repeated for credit.

**MUSC 3202. Symphonic Wind Ensemble (1 credit)** — *Prerequisites:* Two semesters of MUSC 1202 and upper-division standing. May be repeated for credit. 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)** — *Prerequisites:* 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)** — *Prerequisites:* 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)** — *Prerequisites:* 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)** — *Prerequisites:* 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)** — *Prerequisites:* 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)** — *Prerequisites:* 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)** — *Prerequisites:* 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)** — *Prerequisites:* 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)** — *Prerequisites:* 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)**— *Prerequisites:* 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)**— *Prerequisites:* 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)**— *Prerequisites:* 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)**— *Prerequisites:* 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)**— *Prerequisites:* 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)** — *Prerequisites:* 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)** — *Prerequisites:* 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)**— *Prerequisites:* MUSC 2420, 2421. The study and writing of modal counterpoint style from two voices through major forms.

**MUSC 3430. Tonal Counterpoint (2 credits)**— *Prerequisites:* MUSC 2420, 2421. The study and writing of tonal counterpoint style from two-part compositions through major forms.

**MUSC 3540. Music History Survey III (3 credits)**— *Prerequisites:* MUSC 2550, 2420. Music from 1760 through circa 1890.

**MUSC 3550. Music History Survey IV (3 credits)** — *Prerequisite:* MUSC 3540. Music from 1890 to the present.

**MUSC 3570. Introduction to Conducting (2 credits)** — *Prerequisites:* MUSC 2420, 2421. An introduction to the skills used by conductors of choral and instrumental ensembles.

**MUSC 3580. Choral Conducting (2 credits)** — *Prerequisite:* MUSC 3570. Study of choral conducting techniques with practical application in a rehearsal environment.

**MUSC 3590. Instrumental Conducting (2 credits)**— *Prerequisite:* 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 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 (1-3,1-3 credits)**

**MUSC 4470. Composition (2 credits)**— *Prerequisites:* 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:* MUSC 4510. A comprehensive analysis of the secondary choral program, including general music.

**MUSC 4570. Marching Band Methods (3 credits)** — Survey of marching techniques and systems. Emphasis on the creative approach to the composition of the field band show. Charting techniques, formation analysis, and instrument placement will be practiced.

**MUSC 4580. Instrumental Music in the Schools (3 credits)** — A detailed study of organization, philosophy, budget, recruiting, rehearsal procedures and problems, motivational techniques, and general administration of the instrumental music program in the schools.

**MUSC 4600. Orchestration and Arranging (2 credits)** — *Prerequisites:* MUSC 2420, 2421. A study of band and orchestra instruments with exercise in scoring for small and large ensembles.

**MUSC 4601. Vocal Pedagogy (2 credits)**— *Prerequisites:* 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:* 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:* 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:* 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 (3 credits)** — *Prerequisite:* 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 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, research. A study of pedagogical methods and materials.

**MUSC 4760. Woodwind Literature and Pedagogy (3 credits)** — A survey of woodwind literature. Performance, analysis, research. A study of pedagogical methods and materials.

**MUSC 4770. Percussion Literature and Pedagogy (3 credits)** — A survey of percussion literature. Performance analysis, research. A study of pedagogical methods and materials.

**MUSC 4780. String Literature and Pedagogy (3 credits)** — A survey of string literature. Performance, analysis, research. A study of pedagogical methods and materials.

**MUSC 4810. Introduction to Suzuki Philosophy (2 credits)** — *Prerequisite:* 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:* 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:* 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:* 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:* Contract must be on file prior to registration. Contract available in Mathes 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 (1-3,1-3 credits)**

**Graduate Course Listing**

For descriptions and prerequisites 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 & Materials of Choral Art	(3 credits)
MUSC 5320.	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 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 Physical Education, Exercise and Sport  
 Sciences  
 PEXS/PHED**

**Physical Education  
 Activity Course Requirements**

University regulations require each student to complete two courses in the physical education basic instruction program or an approved equivalent. University-approved equivalents include Marching Band (2 semesters) and MSCI 2130 (Mountaineering) = Lifetime Activity and MSCI 1217 (PT) = Fitness Activity. These courses should be completed during the freshman and sophomore years and are selected from departmental offerings listed under Physical Education Fitness and Lifetime Activities. Major and minor courses may not be substituted for activity courses without permission.

Students with disabilities may be eligible to enroll in PHED 2600, Adapted Physical Education. Approval for students physically unable to take any PHED activity course and wishing to enroll in PHED 2600, must come from the university physician in conjunction with Dr. Tom Coates (423/439-5261).

Students must select one course from the fitness activities category and one course from the lifetime activities category list below, to meet the two-course graduation requirement.

**FITNESS ACTIVITIES**

- **PHED 1115. Aerobic Dance (1 credit)** — Aerobic Dance is exercise to music. The purpose is to develop a healthy lifestyle, develop and maintain aerobic fitness, and understand the fundamentals of aerobic 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: (1) fitness assessment; (2) lectures and demonstrations concerning principles of fitness; and (3) fitness activity sessions. The purpose of the course is to help students develop and maintain an 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 2105. Beginning Ballet (1 credit)** — An introduction to ballet dance.

- **PHED 2110. Intermediate Ballet (1 credit)** — Ballet techniques at an intermediate level.

- **PHED 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.

- **PHED 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.

- **PHED 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.

- **PHED 2130. Modern Dance Techniques (1 credit)** — An introduction to modern dance techniques.

- **PHED 2135. Social Dance (1 credit)** — A course in various social dance steps such as tango, cha-cha, waltz, two-step, and rumba.

- **PHED 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.

- **PHED 2150. Tap Dance (1 credit)** — An introduction to tap dance technique.

- **PHED 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.

- **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 extra fee associated with this course.)
- **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. (Foil, 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)** — This course will present advanced tennis skills. Students will learn advanced strategies and rules for playing tennis. (*Prerequisites:* beginning tennis or display of tennis skills.)
- **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. (An extra fee is charged for this course.)
- **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. (An extra fee is charged for this course.)
- **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. (An extra fee is charged for this course.)
- **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)** — 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. (*Prerequisites:* beginning swimming or display of swimming skills.)
- **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)** — 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. (An additional fee and equipment are required for this course.)
- **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. (Extra fee for campsite and food. Taught only during pre-summer.)
- **PHED 2510. Horseback Riding/Equitation (1 credit)** — General riding and equestrian skills are taught at the riding stables in Jonesborough, Tenn. (There is an additional fee associated with this course.)
- **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 techniques. 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 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. 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, N.C. Students have an opportunity to ski different slopes in N.C. (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.

**PHED 2600. Adapted Physical Education (2 credits)** — Restricted to students with a disability who are unable to successfully and safely participate in the regular physical education activity classes. Admission based on referral from the University Physician to Dr. Tom Coates.

### Physical Education, Exercise, and Sport Sciences Major-Minor Courses

**PEXS 2701. Aquatics (1 credit)** — Knowledge, skills, and methods of basic water safety, survival, and rescue techniques.

**PEXS 2900. Orientation to Physical Education (1 credit)** — This course is designed as an introduction to the discipline of physical education.

**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)** — *Prerequisite:* PEXS 2900. 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 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 3060. Natural Resource Management (3 credits)** — A course of study focusing 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.

**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 they relate 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 Dance (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. Folk, square, clogging, ballroom, modern, jazz, ballet, and currently popular dances will be presented. Some background in the history, philosophy, and choreography of dance will be included.

**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 3410. Implementing Technology in PEXS (3 credits)** — A course designed to support student growth in computer technology as it relates to the professional field of sport and leisure management. Specific technology covered in this course will include spreadsheet development and management, discipline specific computer programs for program management and scheduling, Powerpoint presentations, web page development and maintenance, and Blackboard online discussion forum.

**PEXS 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 influence the development of dance in the West.

**PEXS 3510. Foundations of Physical Education (3 credits)** — *Prerequisite:* PEXS 2900. 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)** — *Prerequisites:* HSCI 3000 and 3020. The study of the physiological responses and adaptations of the human body to exercise and training.

**PEXS 3655. Sports Nutrition (3 credits)** — *Prerequisite:* AHSC 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 3700. Elementary Physical Education I - Preschool–Second Grade (4 credits)** — *Prerequisite:* PEXS 3005, 3032 and admission to teacher education. This course is designed to provide instruction and experiences in the program content, teaching methods, and learning styles for a developmentally appropriate physical education program for children, ages 3 to 8 years old. Emphasis is placed on movement education, rhythm, dance, body management, fundamental motor skills, and fitness/wellness appropriate to the preschool, kindergarten, first, and second grade child. Field experience is required.

**PEXS 3710. Elementary Physical Education II: Third–Sixth Grade (4 credits)** — *Prerequisite:* PEXS 3005, 3032, 3700 and admission to teacher education. This course is designed to provide instruction and experiences in the program content, teaching methods, and learning styles for a developmentally appropriate physical education program for children, ages 8 through 12 years old. Emphasis is placed on rhythm, dance, body management, fundamental motor skills, and fitness/wellness appropriate to the third and sixth grade child. Field experience is required.

**PEXS 3850. Scientific Basis of Human Performance (4 credits)** — *Prerequisite:* HSCI 2010/2011 or HSCI 2020/2021. 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 mechanical applied performance attributes.

**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:* 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 exercise VO<sub>2</sub>, treadmill, cycle, and other laboratory tests and equipment.

**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 4220. Internship in Sport Management and Leisure Services (6 credits)** — *Prerequisites:* PEXS 3210, 3211, 3212. This course will give the student the opportunity to put theory into practice. Students will work in a sport management or leisure service agency for forty credits per week (minimum of 400 clock credits) for an entire semester. Students will be consulted as to the sport management or leisure service agency desired for the internship experience.

**PEXS 4250. Physical Education Activities for Atypical Populations (3 credits)** — *Prerequisites:* PEXS 3005, 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)** — *Prerequisites:* Anatomy and Physiology (1210/ 1211 and 1220/1221 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 4271. Mechanical Kinesiology (3 credits)** — *Prerequisites:* PEXS 4270; HSCI 2010/2011; HSCI 2020/2021; General Physics is recommended. An introduction to the study of the biomechanics of human movement, with emphasis on sports industry, and activities of daily living. Course content includes the application of principles of physics and engineering to movement, including the kinematic and analyses of movement.

**PEXS 4467/5467. Metabolic Aspects of Nutrition and Exercise in Disease. (3 credits)** — *Prerequisites:* AHSC 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)** — *Prerequisites:* 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)** — *Prerequisites:* BIOL 1110 & 1111, CHEM 1310 & 1311, CHEM 1320 & 1321, HSCI 3000 & 3020, 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/Wellness Internship (12 credits)** — *Prerequisites:* Completion of all required coursework prior to beginning the internship experience and maintain an average grade of C+ in the following classes: PEXS 3080, 3610, 4061, 4467, 4620, and 4977. This course is designed to provide each student with an actual worksite experience in the areas of exercise science and/or wellness promotion.

**PEXS 4650. Strategies in Developing Wellness Programs (3 credits)** — *Prerequisite:* 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 4700. Secondary Physical Education I: Lifetime Wellness (4 credits)** — *Prerequisites:* PEXS 2955, 3005, 3032, 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. Field experience is required.

**PEXS 4710. Secondary Physical Education II: The Middle School (4 credits)** — *Prerequisites:* PEXS 3005, 3032, 3080, 3095, and 4700, and admission to teacher education. This course is designed to provide content knowledge and methodological skill necessary for the physical education specialist to develop and implement a physical education curriculum for the middle setting. Emphasis will be placed on sport and physical fitness activities that are developmentally appropriate for middle students. Field experience is required.

**PEXS 4977/5977. Exercise Management for Persons with Chronic Diseases and Disabilities (3 credits)** — *Prerequisite:* 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)

### Graduate Course Listing

For descriptions and prerequisites see the *Graduate Catalog*.

PEXS 5010.	Philosophy and Current Readings	(3 credits)
PEXS 5021.	Planning & Operating Facilities in Physical Education, Fitness and Sports	(3 credits)
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 & Analysis	(3 credits)
PEXS 5430.	Administration of Physical Education and Athletics	(3 credits)
PEXS 5440.	Pedagogy	(3 credits)
PEXS 5450.	Advanced Adapted Physical Education, Sport and Leisure Activity	(3 credits)
PEXS 5460.	Inclusion in Physical Education	(3 credits)
PEXS 5510.	Data Analysis and Interpretation in Sport and Human Performance	(3 credits)
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.	Advanced Exercise Physiology I	(3 credits)
PEXS 5620.	Advanced Exercise Physiology II	(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)
PEXS 5670.	Critical Analysis of Research in Exercise Science	(3 credits)
PEXS 5680.	Promoting Wellbeing for Professionals	(3 credits)
PEXS 5800.	Internship in Exercise Physiology	
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.	Captstone Written Project	(3 credits)
PEXS 5990.	Readings and Research	(1-3 credits)

### Philosophy PHIL

— **PHIL 1030. Self and World (3 credits)** — An introduction to some central philosophical problems concerning free will, the self, science, and reality.

— **PHIL 2020. Values and Society (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 2210. Introduction to the Study of Religion (3 credits)** — A comparative and historical introduction to the world's ways of being religious.

-- **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)** — 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)** — 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)** — Introduction to modern logic. This course explores the formal nature of language and reasoning. Propositional logic, predicate logic, and related topics.

**PHIL 3061-62-63. Philosophy Colloquium (1-3, 1-3, 1-3 credits)** — Each semester some important issue, movement, or person of philosophical concern will be studied. May be repeated for up to nine credits.

**PHIL 3110. Philosophies of Feminism (3 credits)** — 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)** — 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.

**PHIL 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. (Same as Political Science 3130.)

**PHIL 3140. Environmental Philosophy (3 credits)** — 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 3160. Native American Thinking (3 credits)** — 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 3220. Western Religions (3 credits)** — A study of the religious life of the West, from preliterate societies and classical civilizations of the past through contemporary Judaism, Christianity, and Islam.

**PHIL 3230. Eastern Religions (3 credits)** — A study of religions whose origins were in the East: Hinduism, Buddhism, Confucianism, Taoism, and Zen.

**PHIL 3240. Old Testament Literature (3 credits)** — A historical and literary survey of the Hebrew Bible.

**PHIL 3250. New Testament Literature (3 credits)** — A historical and literary survey of the New Testament.

**PHIL 3261-62-63. Religion Colloquium (1-3, 1-3, 1-3 credits)** — Some issue, movement, or person of importance to the study of religion will be selected for the topic. May be repeated for up to nine credits.

**PHIL 4017/5017. Ethical Theory (3 credits)** — History of ethics from ancient Greece to the present. Special emphasis on the theories of Aristotle, Kant, and Mill.

**PHIL 4027/5027. Contemporary Philosophy (4 credits)** — A survey of developments in European and American philosophy from the mid-19th century to the present.

**PHIL 4047/5047. Philosophy of Religion (3 credits)** — 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)** — 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)** — An examination of philosophical issues as they appear in the world's literature, including poetry, fiction, and essays.

**PHIL 4107/5107. 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.

**PHIL 4127/5127. 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.

**PHIL 4137/5137. Marxism (3 credits)** — 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)** — An examination of selected topics in political philosophy chosen by the professor. May be taken more than once, provided that the content of the course significantly varies from previous offerings.

**PHIL 4220. Contemporary Theology (3 credits)** — A discussion of trend-setting theologians of the most recent decade.

**PHIL 4900. Independent Studies in Philosophy (1-3 credits)**

**PHIL 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.

**PHIL 4920. Independent Studies in Religion (1-3 credits)**

**PHIL 4950. Senior Seminar (1-3 credits)**

**PHIL 4957/5957. Special Topics in Philosophy (1-6 credits)**

#### Graduate Course Listing

For descriptions and prerequisites 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:* Mathematics 1720 or equivalent. A survey of the topics in classical physics intended primarily for students in preprofessional 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. 2010-20 should be taken in sequence. (Many curricula require a laboratory course in physics. Students in these curricula must also take 2011-21, General Physics Laboratory I, II.) Three one-credit 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 two-credit lab session each week.

**PHYS 2110-20. Technical Physics I, II - Calculus Based (5,5 credits)** — *Prerequisite:* One semester of calculus. A survey of physics for students majoring in technical fields such as physics, chemistry, engineering, etc. Also intended for preprofessional students (pre-med, pre-dentistry, etc.) who desire a stronger preparation for professional school. Three one-credit lectures and three credits of laboratory/recitation each week.

**PHYS 3010. Mechanics (4 credits)** — *Prerequisites:* PHYS 2110-2120. Statics and dynamics of particles and systems of particles. An introduction to Lagrangian and Hamiltonian formulations of Newtonian mechanics. Three one-credit lectures and one two-credit recitation session each week.

**PHYS 3110. Thermodynamics (3 credits)** — *Prerequisites:* PHYS 2110-2120. Classical approach to the first and second laws of the thermodynamics; Maxwell's relations and selected applications. Three one-credit lectures each week.

**PHYS 3210. Optics (4 credits)** — *Prerequisites:* PHYS 2110-2120. 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 one-credit lectures and one three-credit lab session, or equivalent, each week.

**PHYS 3310. Electrical Measurements (4 credits)** — *Prerequisites:* PHYS 2110-2120. AC/DC circuit analysis, basic electrical measurements, fundamentals of electronic circuits, with applications to devices of special interest. Two one-credit lectures and two two-credit lab sessions, or equivalent, each week.

**PHYS 3510. Introduction to Biophysics (3 credits)** — *Prerequisites:* PHYS 2010-2020 or 2110-2120. 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 one-credit lectures, or equivalent, each week.

**PHYS 3610. Introduction to Atomic and Nuclear Physics (3 credits)** — *Prerequisites:* PHYS 2110-2120. 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 one-credit lectures each week.

**PHYS 3710. Electricity and Magnetism (4 credits)** — *Prerequisites:* PHYS 2110-2120. An intermediate-level course in electromagnetism: electrostatics, dielectrics, magnetic materials and effects, development of Maxwell's equations. Three one-credit lectures and one two-credit recitations/laboratory session each week.

**PHYS 4117/5117. Kinetic and Statistical Physics (4 credits)** — *Prerequisites:* 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 one-credit lectures and one two-credit recitation session each week.

**PHYS 4617/5617. Quantum Physics (4 credits)** — *Prerequisites:* 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 one-credit lectures and one two-credit recitation session each week.

**PHYS 4717/5717. Electromagnetic Theory (4 credits)** — *Prerequisite:* PHYS 3710. Principles of electromagnetic theory, Maxwell's equations, selected applications, and related topics. Three one-credit lectures and one 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:* 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:* Admission to the nursing major or permission of the department. *Pre-Corequisite:* 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 (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 multidisciplinary settings.

**PMNU 3010. The Nurse and the Dying Client (3 credits)** — *Prerequisite:* ALNU 3051 or the equivalent. Exploration of implications of loss, grief, dying, and death for nurses and nursing practice. Discussion of the role of the nurse in relation to self-awareness, interpersonal factors, and legal/ethical questions. Study of nursing strategies for simulated and actual clients/families experiencing loss, grief, dying, and death. (Elective)

**PMNU 3070. Community-Based Behavioral Health Nursing (3 credits)** — *Prerequisites:* PMNU 2020, 2310, FCNU 2010, 2030. This course focuses on the broad concepts of community-based behavioral health care. It explores the community as a care setting with emphasis on the analysis of behavioral health issues in the community and on planning nursing care to meet identified community behavioral health needs.

**PMNU 3120. Professional Community-Based Nursing (4 credits)** — *Prerequisite:* Admission to the RN-BSN program. *Pre- or corequisite:* CSCI 1100 or equivalent. This course is designed as a transition course for the registered nurse pursuing a baccalaureate degree in nursing.

**PMNU/ALNU/FCNU 4008. Honors Mentorship in Nursing (1 credit)** — may be taken twice for credit. *Prerequisite:* Acceptance into the College of Nursing Honors Program. An individualized course in which the student collaborates with a mentor to create a program of learning that supports academic and professional goals.

**PMNU 4017/5017. Health Care Informatics (3 credits)** — *Prerequisite:* 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)** — *Prerequisites:* Admission to the College of Nursing Honors 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:* 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:* ALNU 4030 or permission of the department. This 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)** — *Pre-corequisite:* PMNU 4060. This course is focused on the preparation of the student for transition to professional nursing practice.

**PMNU 4062. R.N. Practicum (8 credits)** — *Pre-corequisites:* PMNU 4060; active license as a registered nurse. This 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:* 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:* 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 prerequisites see the *Graduate Catalog*.

PMNU 5000	Conceptual Systems for Advanced Nursing Practice	(2 credits)
PMNU 5001	Nursing Research and Design	(3 credits)
PMNU 5002	Health Care Delivery Systems	(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, and Systems	(2 credits)
PMNU 5050	Health Care Accounting and Finance	(3 credits)
PMNU 5110/6110	Interdisciplinary Approaches to Bioethical Issues	(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 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 and Law	(3 credits)
PMNU 5550	Human Resource Management in Health Care Organization	(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)

### 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 11-state 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 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. Power and Politics in Appalachia (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. Offered only in Pre-summer. (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 2311-12. Advanced General Psychology (4,0 credits)** — *Prerequisite:* PSYC 1310. An advanced survey of selected topics in general psychology: physiological, comparative, developmental, perception, motivation, learning, cognition, and social. Four credit credits of lecture and laboratory per week.

**PSYC 2810. Elementary Statistics (3 credits)** — 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 3010. Psychology of Learning (3 credits)** — *Prerequisites:* PSYC 1310, 2311-12, and 2810. A study of basic topics in learning, including conditioning, reinforcement, extinction, motivation, generalization, discrimination, concept formation, verbal learning, and memory.

**PSYC 3030-31. Experimental Psychology (4,0 credits)** — *Prerequisites:* PSYC 1310, 2311-12, and 2810. Basic concepts, methodologies, statistical procedures, issues, and elements of scientific writing in psychological research. Four credits of lecture and laboratory per week.

**PSYC 3320. Psychology of Personal Adjustment (3 credits)** — *Prerequisite:* PSYC 1310. Study of the psychological principles that contribute to the development and management of positive personal adjustment.

**PSYC 3330. Applied Psychology (3 credits)** — *Prerequisite:* 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:* 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)** — *Prerequisites:* 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 3989-99. Cooperative Education (1-3 credits)**

**PSYC 4010. History and Systems of Psychology (3 credits)** — *Prerequisites:* PSYC 1310 and 2311-12. A review of the growth of psychology as a scientific discipline including principal systems, theories, and contemporary development.

**PSYC 4100. An Introduction to the Study of Personality (3 credits)** — *Prerequisite:* 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)** — *Prerequisites:* 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:* PSYC 1310 or permission of instructor. A critical review of personality development and disintegration and the concepts underlying diagnosis, therapy, and institutional care.

**PSYC 4337/5337. Social Psychology (3 credits)** — *Prerequisite:* PSYC 1310. The study of research methodologies, empirical findings, and theoretical concerns in the area of interpersonal behavior.

**PSYC 4507/5507. Ethics and Professional Practice (1 credit)** — *Prerequisite:* PSYC 1310 or permission of the instructor. The course is designed to acquaint students with APA's code of ethical conduct and the Tennessee State Legal Code pertaining to the practice of psychology. A variety of ethical and legal issues will be covered in the areas of research, service, supervision, or administration.

**PSYC 4557/5557. Introduction to Behavioral Medicine (3 credits)** — *Prerequisite:* PSYC 4320 or PSYC 4100 or permission of the instructor. This class examines a variety of topics that exist at the interface of psychology and medicine. These topics include, but are not limited to, chronic pain, stress, hypertension, relaxation training, smoking, obesity, risk factors for heart disease, Type-A behavior, nutrition, and the social psychology of health habit modification.

**PSYC 4607/5607. Child Psychopathology (3 credits)** — *Prerequisites:* PSYC 1310, PSYC 4320, and HDAL 2310 or permission of the instructor. The purpose of the course is to acquaint students with aspects of diagnosis, measurement, and treatment of child psychopathology.

**PSYC 4707-17/5707-17. Physiological Psychology (4,0 credits)** — *Prerequisites:* 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 credit credits of lecture/laboratory per week.

**PSYC 4817/5817. Introduction to Psychological Testing (3 credits)** — *Prerequisites:* PSYC 1310, 2311-12, and 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 prerequisites see the *Graduate Catalog*.

PSYC 5210. Statistical Methods	(3 credits)
PSYC 5220. Personality Theory	(3 credits)
PSYC 5230. Advanced Developmental Psychology	(3 credits)
— HDAL 5230	
PSYC 5530. Sport Psychology	(3 credits)
PSYC 5825. Psychopathology	(3 credits)
PSYC 5830. Individual Mental Testing	(4 credits)
— HDAL 5830	
PSYC 5850. Personality Assessment	(3 credits)
PSYC 5860. Theories of Learning	(3 credits)
— HDAL 5860	
PSYC 5870. Introduction to Clinical Psychology	(3 credits)
PSYC 5875. Intervention Strategies in 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 5930. Internship in Mental Health	(3 credits)
PSYC 5950. Methods of Psychological Research	(3 credits)
PSYC 5960. Thesis	(1-3 credits)
PSYC 5990. Readings	(1-3 credits)

### Public Health

#### PUBH

**PUBH 1010. Personal Health Behavior (3 credits)** — Examines physical, mental, and social aspects of health utilizing 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)** — Designed to familiarize students with the field of public health, including the history and practices of public health. Program areas included in public health will be identified and discussed. 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)** — Designed as a basic life support to those who may come into contact with a victim of foreign body obstruction of the airway or other respiratory problems.

**PUBH 2100. Health Systems (3 credits)** — Studies health systems in the United States and in other countries, with emphasis on such management issues as their 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 legal issues associated with these developments.

**PUBH 2120. School Health Education K-12 (3 credits)** — *Prerequisite:* 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 unsafe conditions influencing the occurrence of accidents. Emphasis is placed on the prevention of accidents through reducing human error and modifying unsafe environments.

**PUBH 3080. Principles of Epidemiology (3 credits)** — *Prerequisite:* PUBH 3000 or permission of instructor. An introduction to 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)** — *Prerequisites:* PUBH 1010 and 3000 as pre- or corequisite. 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:* 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. An understanding of health care financing and its impact on access to and delivery of health care to different populations is provided.

**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 those 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 refereed journals.

**PUBH 4007/5007. Principles and Practices of Patient Education (3 credits)** — In this course students develop 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:* PUBH 1010 or ENVH 1800 or permission of instructor. Studies and analyzes community health problems and their causes. The organization, administration, and work of agencies involved with community health are explored, with emphasis on the professional's responsibility for community health.

**PUBH 4060. Community Organization for Health Education Programs (3 credits)** — *Prerequisite:* 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)** — Designed to familiarize the student with health problems encountered by the family. The components of human sexuality as they relate to physical, mental, and social well-being are explored.

**PUBH 4357/5357. Thanatology (3 credits)** — Explores the concept of death, dying, grief and addresses the topics of: medical, legal, social, cultural and religious view of death both in America and other cultures. Through these studies, students will be able to deal with their own emotions and better understand that death is a natural process of life.

**PUBH/SPCH 4377/5377. Health Communication (3 credits)** — *Prerequisites:* 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 many 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 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)** — Examines the aging process and is designed to familiarize the student 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:* 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.

**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.

**PUBH 4937/5937. Stress Management (3 credits)** — Designed to acquaint the student with the literature and research on stress. Emphasis is given to the identification of stressors, change behavior, and reduction of the deleterious effects of distress and tension experienced by health professionals.

**PUBH 4957/5957. Topic 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)**

## Graduate Course Listing

For descriptions and prerequisites, see the *Graduate Catalog*. Graduate 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.	Techniques of Research and Evaluation	(3 credits)
PUBH 5130.	Planning and Implementation of Community Health Programs	(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.	Adm. of Health Programs	(3 credits)
PUBH 5505.	Managing Health Care Organizations	(3 credits)
PUBH 5510.	Long Term Care Adm.	(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	(3 credits)
PUBH 5850.	Field Experience	(6 credits)
PUBH 5900.	Grant and Proposal Development	(3 credits)
PUBH 5950.	Research Seminar	(3 credits)
PUBH 5960.	Thesis	(1-4 credits)
PUBH 5989.	Cooperative Education	(1-3 credits)
PUBH 5990.	Readings and Research	(1-3 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. Community Skills in Health Professions (3 credits)** — This interdisciplinary course addresses basic communication skills that are utilized by health professionals. The course focuses on data gathering skills, development of rapport, listening skills, and empathic and facilitative responses. Principles of interpersonal, family, group and interdisciplinary communication strategies are addressed.

**IDPH 2010. Rural & 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 3005. Rural and Community Leadership II (2 credits)**

**IDPH 3010. Rural and Community Health Needs (3 credits)** — Students will collaborate with multidisciplinary students, faculty, and community members to provide selected health care interventions to adult populations.

**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.

## 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:* A grade of “C” or better in JOUR 2120. Instruction in fundamentals of reporting, feature writing, broadcast newswriting, 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:* Permission of instructor. Supervised professional experience in public relations.

**PUBR 4301. Topics in Public Relations (2-6 credits)**

**PUBR 4730. Public Relations Practices (3 credits)**— *Prerequisites:* PUBR 2700, 2770, 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 prerequisites see the *Graduate Catalog*.

PUBR 5301. Topics in Public Relations	(2-6 credits)
PUBR 5310. Media Management	(3 credits)
PUBR 5320. Public Relations Case Studies	(3 credits)

## Radiologic Technology RADT

**RADT 3000. Image Production and Evaluation (4 credits)** — *Prerequisite:* Program admission. *Corequisites:* RADT 3010, 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 (3 credits)**— *Prerequisite:* Program admission. *Corequisites:* RADT 3000, 3020, 3021, and 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:* Program admission. *Corequisite:* RADT 3020. 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:* Program admission. *Corequisite:* 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:* Program admission. *Corequisite:* RADT 3031. This course is a continuation and integration of RADT 3020 and 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:* Program admission. *Corequisite:* 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:* 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 3020/3021 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)**— *Prerequisites:* Program admission and RADT 3040. *Corequisites:* RADT 3030 and 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:* Program admission. 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 (3 credits)** — *Prerequisite:* Program admission. 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 (5 credits)**— *Prerequisites:* Program admission and 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:* 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:* 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.

**RADT 4030. Radiographic Pathology (3 credits)** — 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)** — 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.

**Reading  
READ**

(See Developmental Studies for below college-level courses.)

**READ 3100. Reading Instruction in the Elementary School (3 credits)** — This course is designed to provide undergraduate students with a solid foundation for teaching reading and other literacy competencies in the elementary school. Emphasis is on developing understanding of the reading process and the teaching of reading as a keystone within the elementary school. Strategies for effective reading instruction are represented including the development of language, understanding the relationship of specific skills to the overall reading process, the use of children’s literature and basal reader programs, and the importance of reading and the integral nature of the reading process in content learning.

**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 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:* 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 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:* 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 (READ)**

For descriptions and prerequisites 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	(1-2 credits)
READ 5840. Story Dramatization	(1-3 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 of Storytelling	(3 credits)
READ 5900. Independent Study in Reading	(1-6 credits)
READ 5960. Thesis	(3-6 credits)
READ 5990. Readings	(1-3 credits)

**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)** — *Prerequisites:* RTVF 2630, 3602, 3640, 3651, 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:* 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:* MCOM 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:* 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:* 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:* RTVF 2600 or permission of instructor. Principles and methods of producing and directing representative types of radio programs in lecture and laboratory sessions.

**RTVF 3661. Television Production (3 credits)** — *Prerequisite:* RTVF 2600 or permission of instructor. Principles and methods of producing and directing representative types of television programs in lecture and laboratory sessions.

**RTVF 3671. Broadcast Programming (3 credits)** — *Prerequisite:* 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:* Permission of instructor. Paid professional experience in broadcasting.

**RTVF 4401. Topics in Broadcasting (2-6 credits)**

**RTVF 4600. Radio/TV Reporting and Editing (3 credits)** — *Prerequisites:* RTVF 2600, 3600, and 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)** — *Prerequisites:* RTVF 2630, 3602, 3640, 3651, 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:* 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:* 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)** — *Prerequisites:* RTVF 2630, 3602, 3640, 3651, 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)** — *Prerequisites:* 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)**

For descriptions and prerequisites see the *Graduate Catalog*.

RTVF 5401. Topics in Broadcasting (2-6 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 3135. Administration in Leisure Services (3 credits)** — *Prerequisite:* SALM 3100 and SALM 3105. A study of duties, responsibilities, and functions of a competent administrator for a recreation or park delivery system. Emphasis is placed on the development of sound administrative practices and procedures.

**SALM 3210, 3211, 3212. Practicum in Sport and Leisure Management I, II, and III (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 eight hours maximum per week and a maximum of 48 total hours per semester) and be performed either on campus or in close proximity to campus.

**SALM 3220. Facility Planning and Event Management (3 credits)** — A study of content concerning the planning of facilities to accommodate sport and fitness activities. Students will learn procedures to effectively conduct sporting events.

**SALM 3225. Marketing Strategies and Public Relations in 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 contact.

**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 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. 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 (3 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 prerequisites see the *Graduate Catalog*.

SALM 5020. Sport in Society	(3 credits)
SALM 5200. Issues in Sport Management	(3 credits)
SALM 5210. Practica I	
SALM 5211. Practica II	
SALM 5212. Practica III	
SALM 5220. Internship to Sport Management	(3 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:* Eight credits of science. Materials methods, activities, and content appropriate to the program of science in the elementary school.

**SCED 4020. Wildlife Conservation (3 credits)** — *Prerequisite:* Eight credits 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 4320. Integrated Teaching: Science (3 credits)** — *Prerequisites:* Admission to teacher education, completion of eight credits of Science, CUI 4210, CUI 4220, and CUI 4230. This course is taken concurrently with CUI 4310, and CUI 4330. This course provides K-8 science program perspectives. Science teaching methodology, content, and skills are examined with an emphasis on integration with mathematics and other appropriate subject areas. Learning needs of cultural, gender, and special populations are explored. (Evaluative-level Portfolio required)

**SCED 4417/5417. Teaching Science in Secondary Schools (3 credits)** — *Prerequisites:* 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 4904. Independent Study in Science Education (1-6 credits)**

**SCED 4957/5957. Topics in Science Education (1-6 credits)** — *Prerequisite:* 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)** — An introduction to the basic concepts, theories, and methods of cultural anthropology. Major topics addressed include the relationship between biology and culture, cultural diversity, adaptation, and cultural evolution.

**SOAA 1280. Introduction to Physical Anthropology and Archaeology (3 credits)** — An introduction to the study of human evolution, human biological diversity, archaeological theory and methods, and cultural evolution in the Old and New Worlds.

**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:* 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:* SOAA 1020, 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 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 3030. Gender and Society (3 credits)** — *Prerequisites:* 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:* 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:* 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 3110. Minorities (3 credits)** — *Prerequisite:* 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:* 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:* SOAA 1020 or permission of instructor. Methods used in investigating and reporting social phenomena.

**SOAA 3300. Deviant Behavior (3 credits)** — *Prerequisite:* 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, the physically handicapped, sexual deviance, alcoholism, and domestic violence.

**SOAA 3310. Criminology (3 credits)**— *Prerequisite:* 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:* SOAA 1020 or permission of instructor. A study of the extent, causes, treatment, and prevention of delinquency.

**SOAA 3350. Social Statistics (3 credits)**— *Prerequisite:* MATH 1530. An introduction to applied statistics in the field of sociology and related disciplines. This course is offered during the spring semester only.

**SOAA 3444. Microcomputers as a Research Tool (3 credits)**— *Prerequisite:* MATH 1530, CSCI 1100 and SOAA 3210 (or a comparable course, with the approval of the instructor). Instruction on the use of SPSS/PC 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* & 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:* SOAA 1020, 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 4027/5027. Advanced Principles of Sociology (3 credits)**— *Prerequisite:* SOAA 1020 or permission of instructor. A consideration of the theoretical and research applications of sociological concepts. This course is offered during the fall semester only.

**SOAA 4087/5087. The Family in Transition (3 credits)**— *Prerequisite:* 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)**— *Prerequisite:* Permission of instructor. 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:* 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:* 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:* 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 4507/5507. Sociology of the Aging (3 credits)**— *Prerequisite:* SOAA 1020 or permission of instructor. 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:* SOAA 1020 or permission of instructor. Major population characteristics, trends, and problems, primarily those of the United States.

**SOAA 4627/5627. Ethnographic Field Work Techniques (3 credits)**— *Prerequisite:* 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 analysis of field work. Practical applications and cultural situations are also stressed.

**SOAA 4807/5807. Modern Social Theory (3 credits)**— *Prerequisite:* 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. This course is offered during the fall semester only.

**SOAA 4900. Independent Studies (1-3 credits)**— *Prerequisite:* Permission of instructor.

**SOAA 4957/5957. Special Topics in Sociology/ Anthropology (1-6 credits)**

**SOAA 4989-99. Cooperative Education (1-3 credits)**

#### Graduate Course Listing

For description and prerequisites 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 Sciences	(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 1100. Social Service Resources (1 credit)**— *Prerequisites or corequisites:* 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 purpose is to enable students to understand the role of generalist social work practice in rural areas and in Appalachia and prepare them to become more effective service providers in the region.

**SOWK 2500. Interviewing and Recording Skills (3 credits)**— *Prerequisite or Corequisite:* SOWK 1010. Provides a beginning knowledge base and the development of interviewing and recording skills essential for generalist social workers and those pursuing other service professions. The focus of this course is on interviewing and recording techniques which can be applied to all levels of social work practice. The student is given an opportunity to develop interviewing and recording skills 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)**— *Prerequisites:* SOWK 1010, PSYC 1310, and one of the following: BIOL 1010/11, 1020/21, 1110/11 or HSCI 2010/11. *Prerequisite or corequisite:* HDAL 2310. Emphasizes the understanding of human behavior, both individual and family, from a person-in-environment perspective. Cultural and lifestyle conditions which produce various traditional and diverse behaviors are examined with some focus on Appalachian lifestyles. Included are factors such as gender and race as determinants of behavior. The general systems approach is used as a foundation upon which to understand human behavior in the social environment. Students are expected to apply this knowledge to generalist social work practice.



**SOWK 3010. Human Behavior/Social Environment II (3 credits)**

— *Prerequisite:* SOAA 1020 and SOWK 3000. Provides a social work orientation to the understanding of human behavior in large groups, communities, and formal organizations. Its purpose is to explain the social systems and critical analytic perspectives and thus provide the student with a foundation sufficient to integrate knowledge about groups, communities, and organizations. Students should then be able to apply that knowledge in generalist social work practice. Emphasis is placed on institutional sexism and racism.

**SOWK 3330. Cultural Diversity in SW Practice (3 credits)**— The purpose of this course is to introduce the knowledge necessary for social work practice with disadvantaged and oppressed groups over-represented in the field of social work. It critically examines how personal and professional values, beliefs, and behaviors affect work with diverse people. This course will provide critical analysis of issues of power, race, ethnicity, class, gender, sexual orientation, religion, physical/mental ability, and age as they apply to holistic social work practice.

**SOWK 3430. Social Welfare Policy and Services (3 credits)** — *Prerequisites:* PSCI 1120, SOWK 1010. Provides a foundation for knowledge building in the nature, history, and structure of societal efforts to meet perceived personal and social needs through the legislative, judicial, and administrative arenas. Its purpose is to enable students to develop beginning practice skills in the construction, analysis, and implementation of social welfare policy at local, state, and national levels. General systems theory and a critical/analytic approach will provide the student with a foundation to apply knowledge and enrich understanding.

**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)** — *Prerequisites:* 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 will be 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 will also require students to critically evaluate research articles pertinent to generalist social work practice. Finally, issues pertaining to applying research designs to populations at risk will be examined.

**SOWK 4310. Social Work Practice I (4 credits)** — *Prerequisites:* SOWK 2500, 3000, and formal admission to the social work major. This is the first of two courses providing the general method as a practice framework for beginning social work practice. Building on foundation knowledge, values, and skills introduced in SOWK 2500, 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/group systems. Students will learn how to work effectively without bias or discrimination. Students will participate in community-based learning experiences.

**SOWK 4320. Social Work Practice II (4 credits)** — *Prerequisites:* SOWK 3010 and 4310. *Prerequisite or Corequisite:* SOWK 3430 This is the second of two courses providing the general method as a practice framework for beginning social work practice. Building particularly on the foundation provided in SOWK 2500, 3010, and 4310, this course 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 will participate in community-based learning experiences incorporating program planning and development activities.

**SOWK 4367/5367. Seminar in Alcohol and Drug Abuse (3 credits)**— Provides the student with a basic understanding of alcohol and drug abuse. Specifically, the student is introduced to the various classifications of drugs, specific abuse symptomatology, and specific causes of drug 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 Experience (16 credits)** — *Prerequisites:* Senior status, completion of all required major courses and General Education Core courses, an overall GPA of 2.25 and a GPA of 2.5 in required major courses. 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. In addition, the student is required to participate in regularly scheduled field integration seminars on campus. The student will be expected to make applications of the theoretical knowledge and skills acquired throughout the curriculum. The student should build on this knowledge and these skills in order to progressively engage in various roles of intervention employing a variety of interventive techniques. The purpose of the course is to enable the student to further develop generalist practice skills and integrate professional knowledge, values, attitudes, and theory with practice.

**SOWK 4467/5467. Seminar in School Social Work (3 credits)** — *Prerequisite:* Preparing for licensure as a school social worker. 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-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)**— Explores the various types of crises and approaches to crisis intervention relative to professional practice utilizing general systems theory as the basic underlying framework. The student will 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)** — Provides the student with an initial understanding of human sexuality, sexual dysfunction, treatment modalities and resources, preventive programs, and sex education. This course will introduce students to changing sexual norms, values, and behavior found among the majority and ethnic and special groups. Furthermore, the course will introduce the student to how sexual behavior is learned and developed, i.e., psychosocial development and cultural impact. The course has the general purpose of providing students with the opportunity for value clarification and exploration of personal and social attitudes toward varying forms of sexual behavior and orientation. It also has the purpose of encouraging students to feel more comfortable and to accept the appropriateness of their professional involvement in this area.

**SOWK 4900. Directed Independent Study (Variable: 1-3 credits)**— *Prerequisites:* Permission of instructor and major status. Directed independent study on a topic related to social work practice which is of special interest to the student. The purpose is to enable students to utilize research knowledge and skills in pursuing in depth a special area of interest. Such students will be provided guidance and direction by a faculty member who has expertise in the area of study.

**SOWK 4928. Honors Study (3 credits)** — *Prerequisite:* Permission of instructor. Directed independent study on a topic related to social work practice which 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. The purpose is to enable students to utilize research knowledge and skills in pursuing a special area of interest in depth. Such students will be provided guidance and direction by a faculty member who has expertise in the area of study to be pursued by the student.

**SOWK 4957/5957. Special Topics in Social Work (3-6 credits)**— *Prerequisite:* Junior or senior status. Graduate students, after consultation with the instructor, will be permitted to enroll in some topics. Selected topics that relate to fields of practice or current issues in the profession. Two three-credit courses may be taken on different topics.

## Spanish SPAN

**SPAN 1010-20. Beginning Spanish (3,3 credits)** — A study of the four language skills of speaking, listening, reading and writing. Includes introduction to Hispanic culture.

**SPAN 2010-20. Second-Year Spanish (3,3 credits)** — Intermediate Spanish: grammar review, oral practice, and writing. Emphasis on Hispanic culture and literature.

**SPAN 3003. Basic Spanish Grammar (3 credits)** — *Prerequisites:* 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 3013-3113. Spanish Conversation and Composition (3,3 credits)** — *Prerequisites:* SPAN 2020 or equivalent. Practice in conversation, with emphasis on idioms, syntax, and current expressions. Study of grammar through written compositions.

**SPAN 3033. Hispanic Readings and Composition (3 credits)** — *Prerequisites:* SPAN 2020 or equivalent. An introduction to Hispanic literature with emphasis on writing.

**SPAN 3213. Spanish Phonetics and Pronunciation (3 credits)** — *Prerequisites:* SPAN 2020 or equivalent. An introduction to the phonetic system of Spanish and its spoken peculiarities in the Hispanic world.

**SPAN 3313. Civilization of Spain (3 credits)** — *Prerequisites:* SPAN 2020 or equivalent. Geography, history, and culture of Spain.

**SPAN 3413. Civilization of Latin America (3 credits)** — *Prerequisites:* SPAN 2020 or equivalent. Geography, history, and culture of Latin America.

**SPAN 3513. Survey of Spanish Literature (3 credits)** — *Prerequisites:* SPAN 2020 or equivalent. Representative works from Spanish literature.

**SPAN 3613. Survey of Spanish-American Literature (3 credits)** — *Prerequisites:* SPAN 2020 or equivalent. Representative works from Spanish-American literature.

**SPAN 3713. Hispanic Poetry (3 credits)** — *Prerequisites:* SPAN 2020 or equivalent. Works of the principal poets of Spain and Spanish America.

**SPAN 4007/5007. Golden Age Drama (3 credits)** — *Prerequisites:* SPAN 2020 or equivalent. 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)** — *Prerequisites:* SPAN 2020 or equivalent. A study of complex grammatical aspects of the language such as *ser* vs. *estar*, preterite vs. imperfect, and the subjunctive.

**SPAN 4027/5027. Advanced Spanish Grammar II (3 credits)** — *Prerequisites:* SPAN 2020 or equivalent. A study of complex grammatical aspects of the language such as the subjunctive in adverbial clauses, prepositions, placement of descriptive adjectives, pronouns, verbs used reflexively, and the passive voice.

**SPAN 4107/5107. Cervantes (3 credits)** — *Prerequisites:* SPAN 2020 or equivalent. A study of the representative works of Miguel de Cervantes Saavedra, with special emphasis on the *Quijote*.

**SPAN 4117/5117. Hispanic Cinema (3 credits)** — *Prerequisites:* SPAN 2020 or equivalent. A study of cinematic works from Latin America and Spain within the context of Hispanic literature and culture.

**SPAN 4127/5127. Introduction to the Spanish-Speaking Community (3 credits)** — *Prerequisites:* Two years of college Spanish or by permission of instructor. 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 effective relationships between Spanish-speaking and English-speaking community members. Students complete substantial field experience in Spanish-speaking communities.

**SPAN 4137/5137. Translation and Community Outreach (3 credits)** — *Prerequisites:* Two years of college Spanish or by permission of instructor. This course teaches basic translation skills through an interdisciplinary approach involving students and faculty in the promotion of cordial, supportive, and effective relationships between Spanish-speaking and English-speaking community members. This course includes a number of projects in the community.

**SPAN 4147/5147. Interpretation And Community Outreach (3 credits)** — *Prerequisites:* Two years of college Spanish or by permission of instructor. This course teaches basic interpretation skills through and interdisciplinary approach involving students and faculty in the promotion of cordial, supportive, and effective relationships between Spanish-speaking and English-speaking community members. This course includes a number of projects in the community.

**SPAN 4207/5207. Nineteenth-Century Spanish Literature (3 credits)** — *Prerequisites:* SPAN 2020 or equivalent. Selected works by the principal 19th-century novelists and dramatists of Spain.

**SPAN 4307/5307. The Generation of '98 (3 credits)** — *Prerequisites:* SPAN 2020 or equivalent. 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)** — *Prerequisites:* SPAN 2020 or equivalent. Selected works by the principal 20th-century novelists and dramatists of Spain.

**SPAN 4507/5507. Spanish Short Story (3 credits)** — *Prerequisites:* SPAN 2020 or equivalent. Spanish and Spanish-American short stories from the 19th and 20th centuries.

**SPAN 4607/5607. Modernist Movement in Spanish America (3 credits)** — *Prerequisites:* SPAN 2020 or equivalent. A study of Rubén Darío, his contemporaries and followers.

**SPAN 4707/5707. Spanish-American Theatre (3 credits)** — *Prerequisites:* SPAN 2020 or equivalent. Selected works of the principal 19th- and 20th-century dramatists of Spanish America.

**SPAN 4737/5737. Art at the Prado Museum (3 credits)** — *Prerequisites:* 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)** — *Prerequisites:* SPAN 2020 or equivalent. Selected works by the principal novelists of Spanish America.

**SPAN 4903. Special Studies in Spanish (1-3 credits)** — *Prerequisites:* SPAN 2020 or equivalent. 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)** — *Prerequisites:* SPAN 2020 or equivalent. This course gives students an opportunity to study special problems and new developments in the field of Spanish.

### Graduate Course Listings

For descriptions and prerequisites 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)**— *Prerequisites:* SPCH 1300, 2300, 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 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 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:* 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 cocurricular activities related to the effective curricular offering in the secondary school.

**SPCH 4607/5607. Speech Practicum (3 credits, repeatable)** — *Prerequisite:* Permission of instructor. May be repeated. A practical study experience with appropriate supportive research.

**SPCH 4900. Independent Studies (1-3 credits)** — *Prerequisite:* Permission of instructor. May be repeated. Designed to provide opportunities for study in subject matter areas not provided in the regular course offerings.

**SPCH 4957/5957. Special Topics in Speech and Theatre (2-6 credits)**

### Graduate Course Listing

For descriptions and prerequisites see the *Graduate Catalog*.

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 5900. Independent Studies	(1-3 credits)
SPCH 5950. Research Methods in Speech and Theatre	(3 credits)
SPCH 5957. Special Topics in Speech and Theatre	(2-6 credits)
SPCH 5960. Thesis in Speech-Theatre	(6 credits)
SPCH 5990. Read 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 volunteer 10 hours over the course of the semester in a setting with individuals with disabilities. (Every semester)

**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 semester)

**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.

**SPED 3350. Medical Aspects in Special Education. (3 credits)** — *Prerequisite:* 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 semester)

**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 semester)

**SPED 3400. Behavior Management for Individuals with Disabilities (3 credits)**— *Prerequisite:* SPED 3300, Admission to Teacher Education. *Corequisite* 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. (Spring semester)

**SPED 3410. Preclinical Experience in Behavior Management. (1 credit, may be repeated)** — *Corequisite:* 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. (Spring semester)

**SPED 3445. Assistive Technology. (3 credits)** — 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. Laboratory work with microcomputer technology will be required. This course meets the requirements for a Technology Intensive. (Fall and Spring semester)

**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 4427/5427. Educating 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)**— This is a lecture-based course covering 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 semester)

**SPED 4487/5487. Collaboration with Families, Agencies, and Schools (3 credits)** — 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 semester)

**SPED 4497/5497. Special Education Curriculum (3 credits)** — 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 semester)

**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)** — *Corequisite:* 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 semester)

**SPED 4710. Preclinical Experience in Special Education (3 credits)** — 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 semester)

**SPED 4725. Management Strategies for Individuals with Severe Behaviors (3 credits)** — *Prerequisite:* SPED 3700 and Admission to Teacher Education OR consent of the instructor. 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. (Fall semester)

**SPED 4750. Instructional and Transitional Services for Adolescents and Young Adults with Disabilities (3 credits)** — *Prerequisite:* 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 semester)

**SPED 4757/5757. Curriculum-Based Assessment (3 credits)** — 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 semester)

**SPED 4850. Student Teaching in Special Education (12 credits)** — *Prerequisite:* Admission to Teacher Education and Student Teaching. *Corequisite:* EDFN 4581. 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 and Spring semester)

**SPED 4957/5957. Special Topics in Special Education (1-6 credits)**

#### Graduate Course Listing

For descriptions and prerequisites see the *Graduate Catalog*.

SPED 5001.	Critical Issues in Special Education	(3 credits)
SPED 5365.	Integrating Functional Skills into the Curriculum	(3 credits)
SPED 5410.	Preclinical Experience: Behavior Management	(1 credit)
SPED 5445.	Incorporating Assistive Technology into the Curriculum	(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 & the Work of Work for Individuals with Disabilities	(3 credits)
SPED 5825.	Preclinical Experience in Curriculum	(1 credit)
SPED 5850.	Clinical Experience in Special Education	(6 credits)

## Surveying and Mapping Science

### SURV

**SURV 1038. Honors Orientation Seminar (1 credit)** — *Prerequisite:* Admission to College of Applied Science 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 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.

**SURV 2038. Honors Professional Ethics (3 credits)** — *Prerequisites:* Admission to the College of Applied Science 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)** — *Prerequisites:* 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 laboratories.

**SURV 2560. Surveying Graphics (4 credits)** — *Prerequisite:* 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; spacial 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 3030. Technical Communication (3 credits)** — *Prerequisites:* ENGL 1010 and 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.

**SURV 3048. Honors Methods of Research (3 credits)** — *Prerequisite:* Admission to the College of Applied Science and Technology or University Honors Program. Analysis of the materials and methods of research appropriate to Applied Science and Technology.

**SURV 3510. Engineering and Construction Surveys (4 credits)** — *Prerequisite:* SURV 2550; *Corequisites:* SURV 2560, ENTC 2170 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 laboratories.

**SURV 3520. Land Survey Systems (2 credits)** — *Prerequisite:* 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)** — *Prerequisites:* MATH 1910, SURV 3510. *Corequisite:* MATH 1920. 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:* SURV 2560 and 3510; *Corequisites:* SURV 4530, 4540, 4550, ENTC 4227 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)** — *Prerequisites:* SURV 3530; *Corequisites:* MATH 2010 and CSCI 1250/1310/2100. 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:* MATH 1910, SURV 3510 and 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)** — *Prerequisites:* 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.

**SURV 4048. Honors International Study (3 credits)** — *Prerequisites:* Satisfactory completion of all College of Applied Science 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 4510. Photogrammetry (4 credits)** — *Prerequisites:* SURV 3510, and 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 laboratory.

**SURV 4520. Survey Science Topics (3 credits)** — *Prerequisite or Corequisite:* SURV 3510. An overview of surveying and mapping sciences not covered in other courses, including hydrographic surveying and mapping, map projection computations, cartographic mathematics, satellite and inertial surveys, global positioning systems, computer storage of cadastral and land system data, geographic information systems, surveying business practice.

**SURV 4530. Land Boundary Location (4 credits)** — *Prerequisites:* SURV 3510 and 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 laboratory.

**SURV 4540. Land Subdivision and Platting (4 credits)** — *Prerequisite:* SURV 3510, 3520, 4530 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.

**SURV 4550. Automated Surveying and Mapping (3 credits)** — *Prerequisites:* SURV 3510 CSCI 1250/1310/2100 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 4900. Independent Study in Surveying and Mapping Science (1-6 credits)** — *Prerequisites:* Minimum of nine credit 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 competed. Usually a technical report and laboratory/field experience are 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 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 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 2520. Stagecraft (3 credits)** — The study of basic technical principles of scenery, lighting, and costuming with application of the techniques, materials, and stage equipment for the construction and handling of technical theatre devices.

**THEA 2525. Makeup (1 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)** — *Prerequisite:* Permission of instructor through audition, for freshmen and sophomore students only. May be repeated. Participation as a performer or stage manager in planning, rehearsal, and performance of an ETSU Theatre production under faculty direction.

**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 3300. Scenic Design (3 credits)** — *Prerequisite:* THEA 2520. 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:* THEA 2520. Interpreting visual needs of scripts into lighting and color designs and translating designs to paper.

**THEA 3400. Acting for the Camera (3 credits)** — *Prerequisite:* THEA 2510. Acting techniques used in movies, television, industrial films, and commercials.

**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:* THEA 2510. Building characters. The Stanislavsky system utilizing exercises, improvisations, research, and realistic scene work.

**THEA 3512. The Audition Process (3 credits)** — *Prerequisite:* 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 credits)** — 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)** — *Prerequisites:* THEA 2510, 2520, or 2530. Basic principles of staging, picturization, composition, focus, movement, text analysis, directorial scoring, and actor/director relationships.

**THEA 3800. Theatre Laboratory (1 credit)** — Practical directed experience working on a construction and/or running crew for an ETSU Theatre production. Experience can be in scenery, lighting, costuming, makeup, properties, sound, or box office. Type of experience is determined by the instructor.

**THEA 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)** — *Prerequisites:* THEA 2520, 3330, 3335. May be repeated under each of the following areas: scenery, lighting, and costuming. The study of theatrical design principles and appropriate play analysis.

**THEA 4537/5537. Advanced Play Direction (3 credits)** — *Prerequisite:* THEA 3530. The planning of an actual production for performance for practical development of the fundamentals, methods, and procedures of play direction.

**THEA 4547/5547. Dramatic Theory and Criticism (3 credits)** — A study of the critical writings on the theory of dramatic form from Aristotle to the present with an understanding of philosophical and social foundations as they relate to theatrical standards of dramatic art.

**THEA 4557/5557. Playwriting (3 credits)** — *Prerequisite:* THEA 2530. A study of the organization of the parts of a play in dramas of different 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:* Permission of instructor through audition. May be repeated. For juniors, seniors, and graduate students only. Participation as a performer or stage manager in planning, rehearsal, and performance of an ETSU Theatre production under faculty direction.

**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:* THEA 2520 and 3330 or permission of instructor. This course will survey the changes in the theatre architecture for the 5th Century BC 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:* Permission of department chair and concurrence of host theatre. Experience in professional non-academic 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:* THEA 3510. Acting styles from ancient Greece through Restoration, utilizing language, research, scene work, movement, and masks.

**THEA 4867/5867. Summer Theatre Performance (3 credits)** — *Prerequisite:* 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:* Permission of instructor. May be repeated. Designed to provide opportunities for study in subject matter areas not provided in the regular course offerings.

**THEA 4957/5957. Special Topics in Speech and Theatre (2-6 credits)**

**Graduate Course Listings**

For descriptions and prerequisites see the *Graduate Catalog*.

THEA 5417.	Teaching Theatre Grades K-12	(3 credits)
THEA 5527.	Advanced Scenographic Design	(3 credits)
THEA 5537.	Advanced Play Direction	(3 credits)
THEA 5547.	Dramatic Theory	(3 credits)
THEA 5557.	Playwriting	(3 credits)
THEA 5607.	Theatre Practicum	(1 credits)

THEA 5637.	Theatre Management	(3 credits)
THEA 5707.	Theatre Internship	(1-9 credits)
THEA 5857.	Period Acting	(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)

**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)** — *Prerequisites:* ECON 3088 and admission to the College of Business Honors Program. A seminar for College of Business 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 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 4637/5637. Local and Regional Planning (3 credits)** — Theories and techniques of planning for small cities, metropolitan areas, and geographic regions.

**URBS 4905. Urban Studies Internship (3 credits)**— *Prerequisites:* Must have completed a minimum of six semester credits at the upper-division level in the student's major, junior or senior standing and a GPA of 2.7 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.

**Women's Studies**  
**WMST**

**WMST 2010 Introduction to Women's Studies (3 credits)** —

This is an introduction to the interdisciplinary academic field which has the triple focus of 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. As a sophomore-level class, registration priority will be given to first- and second-year students; upper-level students may be able to register by permission of instructor.

## Regents Online Degree Program Courses (RODP)

**ACC 1104. Principles of Accounting I (3 credits)** — *Prerequisites:* 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 the first course in a two-course sequence covering the basic principles of accounting. This course is fully transferable. This course will teach the basic principles of analyzing transactions, recording them in a general journal, posting them to the general ledger, and preparing the basic financial statements.

**AHSC 4547. Corporate Etiquette (3 credits)** — *Prerequisite:* Junior or Senior standing. You will benefit the most when taking this course within two semesters of graduation. To learn skills which will help you get a job, advance to a higher position, make career changes, and practice professional conduct on the job. Topics include communications, appropriate business attire, resume writing, interviewing, wining and dining in corporate America, international business customs, and up-to-date business manners. Learn how to handle business situations that will lead you into the 21st Century. Activities include time log analysis, cover letter and resume development, mock interviews, human resources interviews, and international business projects.

**ART 1030. Art Appreciation (3 credits)** — The over-all 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)** — *Prerequisites:* 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)** — *Prerequisites:* 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)** — *Prerequisites:* 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 (Word). This course is an introduction to Windows-based microcomputers. In this class you will learn general concepts about using the microcomputer, the use of the Windows operating system, the use of the Internet, and basic word processing concepts using Microsoft Word.

**BMGT 3630. Human Resources Management (3 credits)** — *Prerequisites:* BMGT 351 (TTU) 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)** — *Prerequisites:* 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)** — *Prerequisites:* 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)** — *Prerequisites:* CIS 151 Microcomputer Applications. This course will cover the fundamental concepts of the Internet, wide area network technologies, and common Internet applications. Topics will include how the Internet works, TCP/IP protocol, addressing and routing in the IP internetwork, TELNET, FTP, HTTP, creating static, active, and dynamic web pages, web graphics and web site design, configuring and administering a web server, and Internet programming languages and scripts.

**CIS 1610. Programming in C++ (3 credits)** — *Prerequisites:* 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)** — *Prerequisites:* 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)** — *Prerequisites:* This course is for first-time online learners who are willing to learn. If in doubt, lets talk online. 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)** — *Prerequisites:* 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)** — *Prerequisites:* 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)** —

*Prerequisites:* 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)** — *Prerequisites:* 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)** — *Prerequisites:* 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)** — *Prerequisites:* 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)** — *Prerequisites:* 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:* 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)** — *Prerequisites:* 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)** — *Prerequisites:* DSPM 0700 (Basic Math), DSPR 0800 (Developmental Reading), DSPW 0800 (Developmental Writing). By the end of this course the student should be able: to utilize critical thinking skills to assess social problems and their dynamics within a cultural context; to understand one's own culture as it relates to one's abilities and personal style and how to maximize the use of self in practice; to understand the dynamics of oppression and discrimination, especially for populations at risk, and how to appropriately intervene in an advocacy role geared toward social change; apply knowledge of cultural diversity to individual development and behavior and to expand understanding of interactions among and between individuals and social systems; to understand how culture impacts systems theory and the biopscho-social-variables affecting human behavior.

**ELED 4260. Teaching and Internet Technology (3 credits)** — *Prerequisites:* This is an upper-division course. Thus, students should have received junior, senior, or post-graduate 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:* Satisfactory ACT or placement test scores. Composition 101 includes 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. Composition II (3 credits)** — *Prerequisite:* English 1010: Composition I. A composition course in argumentative writing, including invention, organization, style, and revision. Critical reading and thinking will be addressed through students' writing. Research skills and documentation will be introduced.

**ENGL 2110. American Literature: Colonial Period Through the Civil War (3 credits)** — *Prerequisite:* ENGL 1010: English Composition I. 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:* Students must have completed English 1010 and 1020 before they enroll in English 2410. A survey of selected masterpieces of Western World literature: Ancient, Medieval, Renaissance.

**ENGL 3134. Computers, Writing, and Literature (3 credits)** — *Corequisites:* Students must have a recent-model PC with "24/7" Internet access. Students must have an established e-mail account. Students must be motivated, 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)** — *Prerequisites:* Successful completion of English 101 and English 102. 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.

**HIST 2010. American History I (US) (3 credits)** — *Prerequisites:* Satisfactory completion of 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 student's 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)** — This course is a continuation of HIST 2010 (American History I) covering 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:* The student should be able to read and write at college level. The student should be able to 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)** — *Prerequisites and Corequisites:* 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)** — *Prerequisites:* Introduction to Computers or equivalent. A course designed to introduce the concepts of computer graphics creation. The course will use the software Adobe Photoshop 6.0 and Adobe Illustrator 9.0. 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)** — *Prerequisites:* 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)** — 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:* 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)** — *Prerequisites:* 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)** — *Prerequisites:* 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)** — *Prerequisites:* 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)** — *Prerequisites:* 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)** — *Prerequisites:* 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)** — *Prerequisites:* 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)** — *Prerequisites and Corequisites:* 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:* 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)** — *Prerequisites and Corequisites:* 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)** — *Prerequisites and Corequisites:* 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)** — *Prerequisites and Corequisites:* 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:* One of the following courses: Introduction to Social Work - SW 257, Introductory Sociology - SOC 101 and General Psychology - PSY 141 or Introduction to Health Professions - HLTH 260. "The term caregiver refers to anyone who provides assistance to someone else who needs it to maintain an optimal level of independence." Put another way, a caregiver is a person who cares for someone who is ill, incapacitated, or disabled. Because families provide the majority of care, they are referred to as "family caregivers". However, caregivers may be informal (non-professional, not hired) and formal (professional) persons. Informal caregivers probably have not been trained to administer care and may be a relative (family member) or friend to the person receiving care. Formal caregivers may have no family ties to the person receiving the care and have been trained and hired to provide care in such places as the home, medical centers, nursing homes, hospices, and the like.

**SW 3200. Cultural Diversity (3 credits)** — This course is designed to expand the student's 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)** — *Prerequisites and Corequisites:* 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 corequisites may be obtained through these courses: INTC 1050 - Computer Graphics; or OST 2801 - HTML Coding, 2802 - Web Graphics, 2803 - Web Site Design; 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.

## Faculty Listing

### COLLEGE OF APPLIED SCIENCE AND TECHNOLOGY

- Acuff, Robert V. (1982) Professor** ..... Director, Nutrition Center  
B.S., 1974, Louisiana State University;  
M.S., 1977 and Ph.D., 1982, University of Tennessee.
- Andrews, Wayne D. (1987) Professor** ..... Technology  
Vice President for Administration  
B.S., 1974, Fitchburg State College;  
M.S., 1976, West Virginia University;  
Ed.D., 1977, West Virginia University.
- Aston, Richard (1992) Associate Professor** ..... Technology  
B.S., 1962 and M.S., 1964, Pennsylvania State University;  
Ph.D., 1969, 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 at Madison.
- Blanton, William Hugh (1999) Assistant Professor** ..... Technology  
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  
B.S., 1958, University of Tennessee;  
M.A., 1962, East Tennessee State University;  
M.S., 1969, University of Arizona.
- Brown, Amelia Gail (1979) Professor** ..... Applied Human Sciences  
Associate Dean for Articulated Programs  
B.S., 1969, East Tennessee State University;  
M.S., 1971, University of Tennessee;  
Ph.D., 1975, Kansas State University.
- Burdick, Kent (1999) Instructor** ..... Geography, Geology and Geomatics  
B.S., 1988 and M.A., 1993, East Tennessee State University.
- Chenoweth, John D. (1993) Assistant Professor** ..... Computer and  
Information Sciences  
B.A., 1991, Augustana College;  
M.A., 1993, University of South Dakota.
- Clark, Marian M. (1986) Assistant Professor** ..... Surveying and Mapping  
B.S., 1973 and M.S., 1978, Purdue University;  
Ph.D., 1985, University of Wisconsin-Madison.
- Coffey, Dennis (1999) Associate Professor** ..... Technology  
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.
- 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** ..... Applied Human Sciences  
B.A., 1978, St. Andrews Presbyterian College;  
M.Ed., 1997, East Tennessee State University.
- Duncan, Michael (2001) Assistant Professor** ..... Computer and Information  
Sciences  
B.A., 1990 and M.S., 1999, University of Southern Mississippi.
- Gotterbarn, Donald W. (1990) Professor** ..... Computer and Information  
Sciences  
B.A., 1964, Hofstra University;  
M.A., 1970 and Ph.D., 1971, University of Rochester.
- Gunter, Charles R., Jr. (1964) Associate Professor** .... Geography, Geology  
and Geomatics  
B.S., 1962, Middle Tennessee State University;  
M.A., 1963, University of Tennessee.
- Hales, James A. (1984) Professor** ..... Technology  
B.S., 1957 and M.A., 1960, Kent State University;  
Ed.D., 1972, West Virginia University.
- Harold, Dawn M. (1998) Assistant Professor** ..... Military Science  
B.S., 1987, United States Military Academy, West Point.
- Hemphill, William K. (1992) Assistant Professor** ..... Technology  
B.S.M.E., 1981, University of Tennessee-Knoxville;  
M.S., 1992, East Tennessee State University.
- Hubner, LTC. David, Sr. (2000)** ..... Chair, Military Science  
B.A., 1984, Appalachian State University;  
M.B.A., 1996, Frostburg State University.
- Hyder, Carroll R. (1967) Associate Professor** ..... Interim Dean, Technology  
B.S., 1967 and M.S., 1967, East Tennessee State University;  
Ph.D., 1971, Ohio State University.
- Johnson, Keith V. (1993) Associate Professor** .... Interim Chair, Technology  
B.S., 1987 and M.S., 1988, North Carolina A&T State University;  
Ph.D., 1993, Ohio State University.
- Kridler, Jamie K. (1997) Associate Professor** ..... Chair, Applied Human  
Sciences  
B.S., 1976 and M.S., 1977, University of Tennessee;  
Ph.D., 1985, Ohio State University.
- Kyzar-White, Jan (1999) Assistant Professor** ..... Technology  
B.S., 1995 and M.S., 1997, East Tennessee State University.
- Langenbrunner, Mary (1993) Associate Professor** ..... Applied Human  
Sciences/Human Development & Learning  
B.S., 1974 and M.S., 1976, University of Kentucky;  
Ph.D., 1986, University of Tennessee.
- Lowe, Beth (1999) Assistant Professor** ..... Applied Human Sciences  
B.S., 1974 and M.S., 1982, University of Tennessee.
- May, Robert M., II (1982) Assistant Professor** ..... Technology  
B.S.E.E., 1968, Virginia Polytechnic Institute and State University;  
M.S., 1985, University of Tennessee.
- Moffitt, Lorie (2001) Assistant Professor** ..... Computer and Information  
Sciences  
B.S., 1998, East Tennessee State University;  
M.S., 1999, North Carolina State University.
- Nave, Jerry (2001) Assistant Professor** .... Geography, Geology & Geomatics  
B.S., 1986 and M.S., 1999, East Tennessee State University.
- Nehring, Nancy (1988) Associate Professor** ..... Applied Human 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  
B.S., 1978 and M.S., 1982, Murray State University.
- Peplies, Robert W. (1966) Professor** ... Geography, Geology 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) Assistant 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, Lieutenant Robert L. (2001) Assistant Professor ..... Military Science**  
 B.B.A., 1994, East Tennessee State University.

**Price, Kellie (1999) Instructor ..... Computer and Information Sciences**  
 B.S., 1994 and M.S., 1997, East Tennessee State University.

**Riser, Robert Richard (1977) Professor ..... Computer and Information Sciences**  
 B.S., 1961, Tusculum College;  
 M.S., 1965, Stevens Institute of Technology.

**Roberts, Anna D. (1982) Associate Professor ..... Applied Human 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.

**Sayers, Jerry E. (1985) Assistant Professor ..... Computer and Information Sciences**  
 B.S., 1968, University of Tennessee;  
 M.S., 1984, Memphis State University.

**Sims, Joseph P. (2000) Associate Professor ..... Technology**  
 B.S., 1985 and 1991, Middle Tennessee State University;  
 M.S., 1989, University of Tennessee;  
 Ph.D., 1996, University of Wales, UK.

**Story, Charles H. (1965) Professor ..... Technology**  
 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 (1999) Assistant Professor ..... Computer and Information Sciences**  
 B.S., 1979, California State University;  
 M.S., 1987, East Tennessee State University;  
 Ph.D., 1989, University of Tennessee.

**Tillman, Primus J. (1999) Assistant Professor ..... Technology**  
 B.A., 1984, University of Memphis;  
 M.A., 1990, Memphis College of Arts.

**Tilson, James Glenn (1993) Lecturer ... Geography, Geology and Geomatics**  
 B.S., 1963, East Tennessee State University;  
 M.S., 1974, University of Tennessee.

**Vaglia, John S. (1976) Professor ..... Technology Associate Dean, College of Applied Science and Technology**  
 B.S., 1964, California University of Pennsylvania;  
 M.A., 1970, East Tennessee State University;  
 Ph.D., 1978, University of Maryland.

**Verhegge, Ruth D. (1981) Assistant Professor ..... Applied Human Sciences**  
 B.S., 1966, Florida State University;  
 M.S., 1973, Emory University.

**Wallace, Steven (2001) Assistant Professor ..... Geography, Geology and Geomatics**

B.S., 1995, Bowling Green State University;  
 M.S., 1997, Fort Hays State University;  
 Ph.D., 2001, University of Iowa.

**Whitten, Barry (2001) Assistant Professor ..... Technology**  
 B.S., 1997 and M.S., 1998, Tennessee Technological University.

**Wild, Major Scott R. (2001) Assistant Professor ..... Military Science**  
 B.S., 1984, The Citadel.

**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.

## COLLEGE OF ARTS AND SCIENCES

**Adkinson, Jane (2001) Professor ..... Social Work**  
 B.A., 1969, University of Florida, Gainesville;  
 M.S.W., 1971 and M.S., 1972, Tulane University;  
 Ph.D., 1984, University of Texas, Arlington.

**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.

**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, Eugene D. (1972) Senior Affiliate Faculty ..... Social Work**  
 B.A., 1959, Mercer University;  
 M.S.W., 1961, Tulane University;  
 Ph.D., 1972, University of North Carolina, Greensboro.

**Antkiewicz, Henry J. (1988) Associate Professor ..... History**  
 B.A., 1963 and M.A., 1967, University of Michigan;  
 Ph.D., 1976, Ohio State University.

**Ayers, James (2001) Professor ..... Social Work**  
 A.A., 1971, Southwestern College California;  
 B.S.W., 1973, California State University;  
 M.S.S.W., 1975, San Diego State University;  
 D.S.W., 1990, University of Utah.

**Bach, Bert C. (1994) Professor ..... English Provost, Vice President for Academic Affairs**  
 Ph.D., 1966, New York University.

**Bailey, Roger C. (1973) Professor ..... Psychology**  
 B.A., 1964, Concord College;  
 M.A., 1966, West Virginia University;  
 Ph.D., 1973, Oklahoma State University.

**Battista, Andrew C. (1984) Assistant Professor ..... Political Science**  
 A.B., 1973, Miami University;  
 M.A., 1977 and Ph.D., 1984, Pennsylvania State University.

**Baxter, Colin F. (1971) Professor ..... History**  
 B.S., 1961, East Tennessee State University;  
 M.A., 1963 and Ph.D., 1965, University of Georgia.  
 Distinguished Faculty Award, 1995.

**Beck, Scott H. (1984) Professor ..... Chair, Sociology and Anthropology**  
 B.A., 1976, Florida International University;  
 M.S., 1977, Florida State University;  
 Ph.D., 1981, University of Florida.

**Blackman, Mary Dave (1997) Associate Professor ..... Chair, Music**  
 B.A., 1978 and M.M.Ed., 1984, University of South Carolina;  
 Ph.D., 1989, University of Texas at Austin.

**Blankenship, Michael B. (1993) Associate Professor ..... Sociology and Anthropology Director, Teaching and Learning Center**  
 B.S., 1983 and M.P.A., 1984, Western Carolina University;  
 Ph.D., 1988, Sam Houston State University.

- Blaustein, Richard J. (1970) Professor ..... Sociology and Anthropology**  
B.A., 1966, Brooklyn College;  
M.A., 1969 and Ph.D., 1975, Indiana University.
- Boland, James W. (1992) Associate Professor ..... Mathematics**  
B.S., 1981, Worcester Polytechnic Institute;  
M.S., 1987, University of Central Florida;  
Ph.D., 1991, Clemson University.  
Distinguished Faculty Award, 1996.
- Branscomb, Ernest J., Jr. (1972) Senior Affiliate Faculty ..... English**  
A.B., 1965, Duke University;  
M.A., 1967 and Ph.D., 1972, University of North Carolina.  
Distinguished Faculty Award, 1997.
- 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.
- Brewster, Karen (2000) Assistant Professor ..... Communication**  
B.A., 1973, East Tennessee State University;  
M.F.A., 1982, Michigan State University.
- Briley, John D. (2001) Assistant Professor ..... Political Science**  
B.A., 1978, University of Tennessee;  
M.P.A., 1981, University of Tennessee;  
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.
- Burant, Patricia (2000) Assistant Professor ..... Communication**  
B.A., 1992 and M.A., 1994, Cleveland State University;  
Ed.D., 1999, West Virginia 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.
- Cantrell, Peggy J. (1982) Senior Affiliate Faculty ..... Psychology**  
B.S., 1976, Virginia Commonwealth University;  
M.A., 1979 and Ph.D., 1982, University of Southern Mississippi.
- Carmichel, Linda C. (1965) Assistant Professor ..... English**  
B.S., 1964 and M.A., 1965, East Tennessee State University.
- Cashdan, Sonya H. (1986) Associate Professor ..... English**  
B.A., 1967, North Texas State University;  
M.A., 1978, California Polytechnic State University;  
Ph.D., 1985, Texas A&M University.
- 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 (1989) Professor ..... Sociology and Anthropology**  
B.A., 1971, Belmont College;  
M.A., 1974 and Ph.D., 1981, University of Tennessee.
- Champouillon, David (2000) Assistant 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) Associate Professor ..... Political Science**  
B.A., 1982, Shandong University, China;  
M.A., 1986, College of International Relations, China;  
Ph.D., 1992, Northern Illinois University.
- Close, David M. (1978) Professor ..... Chair, Physics**  
A.B., 1964, Franklin and Marshall College;  
M.S., 1967, West Virginia University;  
Ph.D., 1973, Clark University.  
ETSU Foundation Research Award, 1988.
- Cody, Michael A. (2001) Assistant Professor ..... English**  
B.A., 1993, University of North Carolina at Asheville;  
M.A., 1995, Western Carolina University;  
Ph.D., 2000, University of South Carolina.
- Cole, Bettie S. (1986) Professor ..... Social Work**  
B.A., 1962, Long Beach State College;  
M.S.W., 1976, University of Alabama;  
Ph.D., 1981, University of Alabama.
- Collins, Lattie F., Jr. (1965) Professor ..... Physics**  
B.A. 1960, Huntingdon College;  
M.S., 1963 and Ph.D., 1965, Tulane University.
- Copp, Martha A. (1993) Associate Professor ... 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.
- 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**  
B.A., 1963, King College;  
M.A., 1965, East Tennessee State University.
- Davidson, Tammy A. (1998) Assistant Professor ..... Chemistry**  
B.S., 1992, Denison University;  
Ph.D., 1997, University of Florida.
- Davis, Don (2000) Assistant 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 ..... Chair, History**  
B.A., 1963, Cumberland College;  
M.A., 1965 and Ph.D., 1971, Texas Christian University.
- Deadman, Alison P. (1998) Assistant Professor ..... Music**  
B.A., 1986, Leeds University;  
M.Phil., 1990, Leeds University;  
M.A., 1992, California State University, Fresno;  
Ph.D., 1998, University of California, Los Angeles
- DeAngelis, Anita M. (1994) Assistant Professor ..... Art and Design**  
B.F.A., 1981, University of Texas at Austin;  
M.F.A., 1986, Arizona State University.
- DiCicco, Mark (2001) Assistant Professor ..... English**  
B.A., 1991 and B.A., 1993, University of Massachusetts at Amherst;  
M.A., 1994 and Ph.D., 1998, University of North Carolina at Chapel Hill.
- Dixon, David (1989) Associate Professor ..... Art and Design**  
B.A., 1976, University of Tennessee;  
M.F.A., 1984, University of Tennessee.
- Doran, Linda (1994) Associate Professor ..... English**  
**Vice Provost, Academic Affairs**  
A.B., 1965, University of Georgia;  
M.A., 1966, University of Tennessee;  
Ph.D., 1976, George Peabody College.

- Drinkard-Hawkshawe, Dorothy (1989) Professor** ..... History  
B.A., 1960 and M.A., 1963, Howard University;  
Ph.D., 1974, Catholic University of America.
- Dyer, M. Wayne (1983) Professor** ..... Art and Design  
B.S., 1973, Madison College;  
M.F.A., 1983, Radford University.
- Elhindi, Yousif A. (1998) Assistant Professor** ..... English  
B.A., 1975, University of Khartoum;  
M.A., 1981, University of Sheffield;  
Ph.D., 1995, Oklahoma State University.
- Elliott, Joan (2000) Instructor** ..... Social Work  
B.A., 1977, University of Texas at Austin;  
M.S.S.W., 1982, University of Tennessee at Knoxville.
- Ellis, Jon B. (1989) Associate Professor** ..... Psychology  
B.S., 1973, Virginia Polytechnic Institute and State University;  
M.S., 1981, Radford University;  
Ph.D., 1989, University of Southern Mississippi.
- Essin, Emmett M. (1967) Professor** ..... History  
**Director, Developmental Studies**  
A.B., 1964, Austin College;  
M.A., 1965 and Ph.D., 1968, Texas Christian University.  
ETSU Distinguished Faculty Member, 1976.
- 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 at 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.
- Gerard, Mira (2001) Professor** ..... English  
B.A., 1968, University of Alabama;  
M.Ed., 1974, Livingston University;  
Ph.D., 1981, Auburn University.
- 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  
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  
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** ..... Philosophy and Humanities  
B.A., 1973, University of Wisconsin;  
M.A., 1975 and Ph.D., 1978, Ohio State University.
- 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) Instructor** ..... 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 at 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.
- 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  
A.A., 1970, St. Petersburg Junior College;  
B.S., 1972, M.A., 1973 and Ph.D., 1975, Florida State University.
- Hanrahan, Rebecca R. (2000) Assistant Professor** ..... Philosophy and Humanities  
A.B., 1989, Smith College;  
M.A., 1992 and Ph.D., 1998, University of North Carolina, Chapel Hill.
- 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.
- Harris, Styron (1971) Senior Affiliate Faculty** ..... English  
B.A., 1958, Wake Forest University;  
M.A., 1963 and Ph.D., 1971, Duke University.
- Harvey, Michael (1999) Assistant Professor** ..... Biological Sciences  
M.S., 1991 and Ph.D., 1997, University of Texas, Arlington.
- Haskell, Jean H. (1992) Professor** ..... Sociology and Anthropology  
**Director, Center for Appalachian Studies**  
B.A., 1969 and M.A., 1970, University of Memphis;  
Ph.D., 1978, University of Texas.
- Hayes, Tammy (1994) Assistant Professor** ..... Communication  
B.S., 1987, East Tennessee State University;  
M.S., 1988, Indiana State University.
- Haynes, Teresa (1988) Professor** ..... Mathematics  
B.S., 1975 and M.S., 1984, Eastern Kentucky University;  
Ph.D., 1988, University of Central Florida.
- Headley, Thomas F. (1969) Associate Professor** ..... Communication  
B.S., 1968 and M.S., 1969, Indiana State University.
- Henson, Gary D. (1989) Assistant Professor** ..... Physics  
B.S., 1979, University of Central Arizona;  
M.S., 1982, University of New Mexico;  
Ph.D., 1989, University of Oregon.
- Herrin, Roberta T. (1976) Professor** ..... English  
**Associate Dean, School of Graduate Studies**  
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) Assistant Professor** ..... Psychology  
B.S., 1981, Valparaiso University;  
Ph.D., 1989, State University of New York at 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.
- Hinman, Paul R. (1990) Assistant Professor** ..... Music  
B.A., 1977 and M.A., 1982, Western Illinois University.
- 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**  
B.S., 1995, Trenton State College;  
M.A., 1998, East Tennessee State University  
Ph.D., 2001, University of Nebraska at Omaha.
- Holmes, Thomas Alan (1996) Associate Professor** ..... **English**  
B.A., 1981, M.A., 1985 and Ph.D., 1990, University of Alabama.
- Hong, Don (1996) Associate Professor** ..... **Mathematics**  
B.S., 1982, Zhejiang Normal University;  
M.S., 1987, Zhejiang University;  
Ph.D., 1993, Texas A&M University.
- Huang, Janice (1995) Associate Professor** ..... **Mathematics**  
A.B., 1963, Brown University;  
M.A. 1965 and Ph.D., 1992, University of Illinois.
- Huang, Thomas T.-S. (1971) Professor** ..... **Chemistry**  
B.S., 1961, National Taiwan University;  
M.A., 1964, East Tennessee State University;  
Ph.D., 1969, University of Illinois.  
ETSU Distinguished Faculty Award, 1988.
- Hull, Vida J. (1986) Professor** ..... **Art and Design**  
B.A., 1968, Rollins College;  
M.A., 1970, Ohio State University;  
Ph.D., 1979, Bryn Mawr College.
- Humpf, Dorothy (1999) Assistant Professor** ... **Sociology and Anthropology**  
B.A., 1982, M.A., 1984 and Ph.D., 1995, Penn State University.
- Hurd, Mary G. (1966) Assistant Professor** ..... **English**  
B.S., 1962 and M.A., 1965, East Tennessee State University.
- Jablonski, T. Henry, Jr. (1966) Associate Professor** ..... **Mathematics**  
B.S., 1961, Maryville College;  
M.A., 1965, George Peabody College for Teachers;  
M.P.H., 1966, University of North Carolina.
- Jenrette, Thomas S. (1979) Professor** ..... **Music**  
A.B., 1968 and M.M., 1970, University of North Carolina;  
D.M.A., 1976, University of Michigan.
- Jiang, Mian (2001) Assistant Professor** ..... **Chemistry**  
B.S., 1984, M.S., 1987 and Ph.D., 1991, Wuhan University, China.
- Johnson, Dan M. (1976) Professor** ..... **Chair, Biological Sciences**  
B.S., 1965, Emory and Henry College;  
M.S., 1967 and Ph.D., 1969, Michigan State University.  
ETSU Foundation Research Award, 1984.
- 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.
- 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**  
M.S., 1987 and Ph.D., 1990, Florida State University.
- Karsai, Istvan (2001) Assistant Professor** ..... **Biological Sciences**  
M.S., 1987, Jozsef Attila University;  
Ph.D., 1997, Jozsef Attila University.
- Kasmai, Hamid S. (1987) Professor** ..... **Chemistry**  
B.S., 1961, Teacher's College, Tehran, Iran;  
Ph.D., 1969, University of Wisconsin.
- Kelly, Edward J. (1997) Associate Professor** ..... **English**  
**Assistant to the President for Legal Affairs**  
B.S., 1973, State University of New York;  
J.D., 1977, State University of New York at Buffalo, School of Law.
- Kerley, Lyndell M. (1967) Professor** ..... **Mathematics**  
B.S., 1964 and M.A., 1965, Appalachian State University;  
Ph.D., 1977, University of Tennessee.
- King, Carl D. (1985) Professor** ..... **Music**  
B.A., 1960 and B.S.M., 1961, Johnson Bible College;  
B.S., 1962 and M.S., 1965, University of Tennessee;  
Ph.D., 1972, Ohio State University.
- King, John (1999) Assistant Professor** ..... **Communication**  
B.A., 1984, M.S., 1991 and Ph.D., 1995, University of Tennessee.
- Kinser, Amber E. (1997) Assistant Professor** ..... **Communication**  
B.A., 1987 and M.A., 1989, University of South Florida;  
Ph.D., 1996, Purdue University.
- Kirkwood, William (1978) Professor** ..... **Communication**  
**Associate Dean, Special Programs**  
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) Assistant Professor** ..... **Mathematics**  
B.A., 1985, Carson-Newman College;  
M.S., 1988 and Ph.D., 1990, Vanderbilt 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) Assistant Professor** ..... **Art and Design**  
MA, 1992, University of St. Andrews, Scotland;  
Ph.D., 1998, University of St. Andrews, Scotland.
- Kortum, Richard D. (1999) Assistant 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.
- Kyle, Maryann (2000) Assistant Professor** ..... **Music**  
A.A., 1987, Meridian Community College;  
B.M., 1989, and M.M., 1990, University of Southern Mississippi;  
D.M.A., 2001, Louisiana State University.
- LaFollette, Hugh (1977) Professor** ..... **Philosophy and Humanities**  
B.A., 1970, Belmont College;  
M.A., 1975 and Ph.D., 1977, Vanderbilt University.
- Lawson, Linda M. (1987) Professor** ..... **Mathematics**  
B.S., 1964, M.S., 1969 and Ph.D., 1973, University of Tennessee.
- Leger, Jerry (1973) Professor** ..... **Sociology and Anthropology**  
B.A., 1968, North Georgia College;  
M.A., 1971 and Ph.D., 1974, University of Iowa;  
J.D., 1990, Harvard Law School.
- Lehnert, Lynn (1989) Associate Professor** ..... **Art and Design**  
B.S., 1973, Temple University;  
M.F.A., 1982, East Tennessee State University.
- Levy, Foster (1989) Associate Professor** ..... **Biological Sciences**  
B.A., 1976 and M.A., 1978, City College of New York;  
Ph.D., 1989, Duke University.
- Lewis, Robert (1967) Senior Affiliate Faculty** ..... **Social Work**  
B.S., 1958, East Tennessee State University;  
B.S.W., 1960 and M.S.S.W., 1964, Virginia Commonwealth University.
- Liu, Ruifeng (1994) Associate Professor** ..... **Chemistry**  
B.S., 1984 and M.S., 1987, Sichuan University;  
Ph.D., 1992, University of Arkansas.



- 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) Assistant 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  
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  
B.S., 1981, University of Michigan;  
M.A., 1983, Wayne State University;  
M.A., 1985 and Ph.D., 1988, Indiana University.
- MacAvoy, Leslie (2000) Assistant 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.
- Marx, David (1995) Professor** ..... Chair, Psychology  
B.S., 1966, M.A., 1969 and Ph.D., 1972, Loyola University.
- McDowell, Timothy D. (1998) Assistant Professor** ..... Biological Sciences  
B.A., 1983, University of North Carolina, Chapel Hill;  
M.A., 1989 and Ph.D., 1995, Duke University.
- McIntosh, Cecilia A. (1993) Associate Professor** ..... Biological Sciences  
B.A., 1977, M.A., 1981 and Ph.D., 1990, University of South Florida.
- McKee, James W., Jr. (1965) Professor Emeritus** ..... History  
B.A., 1962, M.A., 1964 and Ph.D., 1966, Mississippi State University.
- McKinstry, Sam W. (1974) Associate Professor** ..... Political Science  
B.A., 1962, Westminster College;  
M.A., 1969 and Ph.D., 1974, University of Missouri.
- McLain, Raymond W. (2000) Assistant Professor** ..... Center for Appalachian  
Studies  
B.A., 1973, Berea College.
- Mijeski, Kenneth J. (1971) Professor** ..... Chair, Political Science  
B.A., 1966, Florida State University;  
Ph.D., 1971, University of North Carolina.
- Miller, Hugh A., III (1988) Associate Professor** ..... Biological Sciences  
B.S., 1979, East Tennessee State University;  
Ph.D., 1986, University of Tennessee.
- Miller, Larry S. (1984) Professor** ..... Criminal Justice and Criminology  
B.A., 1974, East Tennessee State University;  
M.S., 1977, Eastern Kentucky University;  
Ph.D., 1981, University of Tennessee.
- Mills, James C. (1971) Professor** ..... Art and Design  
A.A., 1960, Spartanburg Methodist College;  
B.A., 1963, Berea College;  
M.A.T., 1964, Oberlin College;  
Ph.D., 1972, University of Kansas.
- Mohseni, Ray M. (2000) Assistant Professor** ..... Chemistry  
Laboratory Director  
B.S., 1980, Pars College, Iran;  
M.S., 1987 and Ph.D., 1990, University of Wyoming.
- Mooney, James J. (1970) Professor** ..... Communication  
A.B.J., 1969 and M.A., 1970, University of Georgia;  
Ph.D., 1984, University of Tennessee.
- Moore, Darrell J. (1989) Assistant Professor** ..... Biological Sciences  
B.A., 1975 and Ph.D., 1983, University of Texas at Austin.
- Morefield, John D. (1983) Assistant Professor** ..... English  
AB, 1962, Davidson College;  
M.A., 1963, University of Florida.
- Murray, Catherine (1995) Assistant Professor** ..... Art and Design  
B.A., 1982, Portland State University;  
M.F.A., 1987, University of Montana.
- Nelson, Ardis L. (1994) Professor** ..... Foreign Languages  
B.A., 1965, Oberlin College;  
M.A., 1972, Middlebury College, Madrid;  
Ph.D., 1980, Indiana University.
- Nelson, Diane R. (1968) Senior Affiliate Faculty** ..... Biological Sciences  
B.S., 1966, M.S., 1968 and Ph.D., 1973, University of Tennessee.  
ETSU Distinguished Faculty Award, 1993.
- Niederberger, Maria (1999) Associate Professor** ..... Music  
B.S., 1981, University of California, Davis;  
Ph.D., 1991 Brandeis University.
- Norwood, Frederick (1987) Associate Professor** ..... Mathematics  
B.A., 1966 and Ph.D., 1979, University of Southwestern  
Louisiana;  
M.S., 1969, University of California at Riverside.
- Odom, James L. (1971) Professor** ..... History  
B.A., 1963, Birmingham Southern College;  
M.A., 1965 and Ph.D., 1968, University of Georgia.  
Distinguished Faculty Award, 1997.
- O'Donnell, Kevin E. (1993) Associate Professor** ..... English  
B.A., 1984, Kent State University;  
M.A., 1987 and Ph.D., 1993, University of Wisconsin-Milwaukee.
- Olson, Charles S. "Ted" (1999) Assistant Professor** ..... Appalachian Studies  
B.A., 1982, University of Minnesota;  
M.A., 1991, University of Kentucky;  
Ph.D., 1997, University of Mississippi.
- Ott, Walter T., Jr. (2001) Assistant Professor** ..... Philosophy  
B.A., 1994, Alford University;  
M.A., 1997, University of Virginia;  
Ph.D., 2000, University of Virginia.
- Page, Melvin E. (1987) Professor** ..... History  
B.A., 1966, American University;  
M.A., 1968, Howard University;  
Ph.D., 1977, Michigan State University.
- Paluzzi, Rebecca (1994) Associate Professor** ..... Music  
B.M., 1977 and M.M., 1979, University of Tennessee;  
Diploma, 1986, Talent Education Institute.
- Palmer-Lopez, Sandra (1995) Associate Professor** ..... Foreign Languages  
B.A., 1977, Colegio Universitario de Cayey, Puerto Rico;  
M.A., 1981, University of South Florida;  
Ph.D., 1994, Florida State University.
- 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.
- Pedroso-Sausman, Elena (1997) Instructor** ..... Foreign Languages  
B.S., 1973, M.A., 1976 and Ed.D., 1980, East Tennessee State University.
- Perry, James S. (1970) Professor** ..... Psychology  
B.A., 1962, Carson-Newman College;  
B.D., 1965, Southeastern Baptist Theological Seminary;  
M.A., 1967, East Tennessee State University;  
Ed.D., 1972, University of Virginia.
- Pike, Lee M. (1976) Professor** ..... Biological Sciences  
B.A., 1967, Albion College;  
M.S., 1971 and Ph.D., 1974, Michigan State University.  
ETSU Foundation Research Award, 1980.
- Poole, George D. (1986) Professor** ..... Mathematics  
B.S.E., 1964, Emporia State University;  
M.S., 1966, Colorado State University;  
Ph.D., 1972, Texas Tech University.

- Powell, Harry D. (1965) Senior Affiliate Faculty** ..... **Physics**  
B.S., 1960, Davidson College;  
M.S., 1962 and Ph.D., 1965, Clemson University.
- Powers-Beck, Jeffrey P. (1993) Associate Professor** ..... **English**  
B.A., 1986, University of Iowa;  
M.A., 1988 and Ph.D., 1993, Indiana University.
- Price, Robert M., Jr. (1997) Assistant Professor** ..... **Mathematics**  
B.S., 1983 and M.S., 1986, Youngstown State University;  
M.S., 1989, Ohio State University;  
Ph.D., 1996, University of Wyoming.
- Pyles, Rebecca A. (1991) Associate Professor** ..... **Biological Sciences**  
**Interim Dean, College of Arts and Sciences**  
**Director, University Honors Program**  
B.S., 1975, University of Missouri-Kansas City;  
M.S., 1979, M.Ph., 1982 and Ph.D., 1988, University of Kansas.
- Razskazovskiy, Yuriy V. (2002) Assistant Professor** ..... **Physics**  
B.S., 1980 and Ph.D., 1984, Moscow State University.
- Rice-See, Lynn (1989) Professor** ..... **Music**  
B.M., 1977, Peabody Conservatory;  
M.M., 1979, The Juilliard School;  
D.M.A., 1982, University of Southern California.
- Roberts, Charles (1990) Professor** ..... **Chair, Communication**  
B.A., 1965, Davidson College;  
M.A., 1967 and Ph.D., 1980, Temple University.
- Robertson, Joe Leonard (1976) Professor** ..... **Biological Sciences**  
B.S., 1965, Union University;  
M.S., 1967 and Ph.D., 1975, University of Tennessee.
- Royalty, Dale M. (1971) Associate Professor** ..... **History**  
B.A., 1964, Kenyon College;  
M.A., 1967 and Ph.D., 1971, University of Kentucky.
- Rushing, Clarence A., Jr. (1969) Assistant Professor** ..... **History**  
B.A., 1963 and M.A., 1965, Tennessee Technological University.
- Sanderbeck, Rande P. (1985) Assistant Professor** ..... **Music**  
B.M., 1978 and M.M., 1985, West Virginia University;  
D.M.A., 1997, University of Kentucky.
- Sawyer, Robert E. (2001) Assistant Professor** ..... **English**  
B.A., 1979, Stetson University;  
M.A., 1987, Western Carolina University;  
Ph.D., 1997, University of Georgia
- Schmitt, Dale J. (1969) Professor** ..... **History**  
B.A., 1965, Yale University;  
M.A., 1968 and Ph.D., 1970, University of Kansas.
- Seier, Edith (1998) Assistant Professor** ..... **Mathematics**  
B.S., 1971, San Marcos University;  
M.A., 1973, University of Kansas;  
M.S., 1996 and Ph.D., 1998, University of Wyoming
- Sekine, Shigeko (1995) Instructor** ..... **Foreign Languages**  
B.A., 1986, Senshu University, Tokyo;  
M.A., 1993, San Diego State University.
- Shafer, Melissa (1999) Assistant Professor** ..... **Communication**  
B.A., 1983, Southern Illinois University;  
M.F.A., 1985, Southern Illinois University at Edwardsville.
- Shanks, Niall (1991) Professor** ..... **Philosophy and Humanities**  
B.A., 1979, University of Leeds;  
M.A., 1981, University of Liverpool;  
Ph.D., 1987, University of Alberta.  
ETSU Foundation Research Award 1998.
- Sherrill, Catherine Anne (1982) Professor** ..... **English**  
B.A., 1960 and M.A., 1969, University of Texas at Austin;  
Ph.D., 1981, University of Iowa.
- Simon, Leonore (1999) Associate Professor** ..... **Criminal Justice and**  
**Criminology**  
J.D., 1978, Case Western Reserve School of Law;  
Ph.D., 1991, University of Arizona.
- Slagle, Judith B. (1999) Associate Professor** ..... **Chair, English**  
B.S., 1983, and M.A., 1985, East Tennessee State University;  
Ph.D., 1991, University of Tennessee.
- Slatton, Ralph (1990) Professor** ..... **Chair, Art and Design**  
B.F.A., 1981 and M.A., 1986, University of Arkansas;  
M.F.A., 1990, University of Iowa.
- Smith, Beverly J. (1999) Assistant Professor** ..... **Physics**  
A.B., 1983, Brown University;  
Ph.D., 1989, University of Massachusetts.
- 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.
- Songer, Lewis A. (1968) Associate Professor** ..... **Music**  
B.M., 1958, Southern Illinois University;  
M.A., 1960, Indiana University;  
D.M.A., 1965, University of Missouri.
- Songer, Marcia J. (1983) Assistant Professor** ..... **English**  
B.S., 1958, Southern Illinois University;  
M.A., 1977, East Tennessee State University.
- Stanley, Isabel Bonnyman (1983) Associate Professor** ..... **English**  
B.A., 1977 and M.A., 1982, East Tennessee State University;  
Ph.D., 1990, University of Tennessee.
- Stenstad, Gail (1989) Associate Professor** ..... **Chair, Philosophy and**  
**Humanities**  
B.S., 1984, University of Wisconsin;  
Ph.D., 1988, Vanderbilt University.
- Tottle, Jack (1994) Associate Professor** ..... **Center for Appalachian Studies**  
B.A., 1963, Dartmouth College.
- Waage, Frederick O. (1978) Professor** ..... **English**  
A.B., 1965 and Ph.D., 1971, Princeton University.
- Wahlberg, Patty (1999) Professor** ..... **Social Work**  
Ed.D., 1992, West Virginia University.
- Walters, Gary M. (1971) Associate Professor** ..... **Physics**  
**Assistant Dean for Distance Education Continuing Studies**  
B.S., 1963 and Ph.D., 1967, University of Tennessee.
- Wardeska, Jeffrey G. (1967) Professor** ..... **Interim Chair, Chemistry**  
B.S., 1963, Mount Union College;  
Ph.D., 1967, Ohio University.  
Distinguished Faculty Award, 1996.
- Watson, Elwood D. (1997) Assistant Professor** ..... **History**  
B.A., 1990 and M.A., 1992, University of Delaware;  
Ph.D., 1999, University of Maine.
- Whitehead, John T. (1987) Professor** ..... **Chair, Criminal Justice and**  
**Criminology**  
B.A., 1969, St. John Vianney Seminary;  
M.A., 1973, University of Notre Dame;  
M.A., 1978 and Ph.D., 1983, State University of New York at Albany.
- 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, Edwin W. (1972) Senior Affiliate Faculty** ..... **English**  
B.A., 1958, Millsaps College;  
M.Div., 1962, Duke University;  
Ph.D., 1972, University of North Carolina.
- Wolfe, Margaret R. (1969) Professor** ..... **History**  
**ETSU/UT at Kingsport**  
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**  
B.S., 1964, Trinity College;  
M.A., 1968 and Ph.D., 1970, Texas Christian University.
- Zoggyie, Haakayoo (1999) Assistant Professor** ..... **Foreign Languages**  
B.A., 1986, University of Ghana;  
M.A., 1991, University of Alberta;  
Ph.D., 1998, University of Cincinnati.

## COLLEGE OF BUSINESS

- Alavi, Jafar (1985) Professor** ..... **Chair, Economics, Finance, 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** ..... **Economics, Finance, 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.
- 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** ..... **Accountancy**  
B.S., 1978, Wake Forest University;  
M.Acct., 1986 and Ph.D., 1994, Virginia Tech;  
CPA, North Carolina.
- 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, and Urban Studies**  
B.A., 1973, University of Tennessee;  
M.A., 1975 and Ph.D., 1978, University of Delaware.
- Driver, Michaela C. (1998) Assistant Professor** ... **Management and Marketing**  
B.S., 1993, M.A., 1995 and Ph.D., 1997, University of Alabama.
- Everett, Michael David (1977) Associate Professor** .... **Economics, Finance, and Urban Studies**  
A.B., 1960 and Ph.D., 1967, Washington University.
- Felker, Lon S. (1988) Professor** .... **Economics, Finance, and Urban Studies Director, Master of Public Management Program**  
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.

- Green, Ronald F. (1986) Professor** ..... **Management and Marketing Associate Dean and Director, Graduate Studies, College of Business**  
B.S., 1974, Clemson University;  
M.B.A., 1978 and M.P.A., 1982, Jacksonville State University;  
Ph.D., 1986, Clemson University.
- Hipple, F. Steb (1982) Professor** .... **Economics, Finance and Urban Studies**  
B.A., 1962 and M.A., 1964, Trinity University;  
Ph.D., 1972, Southern Methodist University.
- Jang, Youngtag (2001) Assistant Professor** ..... **Management and Marketing**  
B.S., 1987, Kyang Pook National University;  
M.A., 1995 and Ph.D. candidate, 1996 - present, University of Nebraska-Lincoln.
- Jennings, Donna L. (1994) Assistant Professor** .... **Economics, Finance and Urban Studies**  
B.S., 1987 and M.A., 1989, University of South Florida;  
Ph.D., 1994, Vanderbilt University.
- 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.
- Lucero, A. Alfonso (1971) Associate Professor** ... **Management and Marketing**  
B.A., 1961 and M.A., 1965, New Mexico Highlands University;  
Ph.D., 1971, University of New Mexico.
- Mackara, W. Frederick (1975) Associate Professor** .... **Economics, Finance, 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, 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, and Urban Studies**  
B.S., 1977, East Tennessee State University;  
M.B.A., 1978, University of Tennessee;  
Ph.D., 1987, University of South Carolina.
- McKee, Thomas E. (1976) Professor** ..... **Accountancy**  
B.S., 1969, East Tennessee State University;  
M.B.A., 1973 and Ph.D., 1975, Georgia State University;  
CIA, CMA, CPA, Tennessee and North Carolina.
- McKinney, Michael M. (1994) Associate Professor** ..... **Management and Marketing**  
B.S., 1980, and M.B.A., 1987, East Tennessee State University;  
J.D., 1991, Columbia University.
- Miller, Phillip E. (1994) Associate Professor** .... **Interim 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.
- Morgan, Robert G. (1985) Professor** ..... **Accountancy**  
B.A., 1968, Piedmont College;  
M.Acc., 1971 and Ph.D., 1974, University of Georgia;  
CMA, CPA, North Carolina.

- Pointer, Martha M. (1991) Associate Professor ..... Accountancy**  
 Director, College of Business Honors Program  
 Coordinator, MAcc. Program  
 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.
- Prather, Larry (1999) Assistant Professor .. Economics, Finance, and Urban Studies**  
 B.S., 1988, State University of New York;  
 M.B.A., 1992, M.A., 1994 and Ph.D., 1995, Old Dominion University.
- Quigley, John V. (1984) Associate Professor ..... Management and Marketing**  
 B.B.A., 1967, M.B.A., 1970 and Ph.D., 1979, Georgia State University.
- 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.
- 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, and Urban Studies**  
 Interim Director, Bureau of Business and Economic Research  
 B.S., 1968, Mississippi State University;  
 M.A., 1975 and Ph.D., 1982, University of South Carolina.
- 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**  
 Assistant Dean of External Programs and Relations  
 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) Assistant Professor ..... Economics, Finance, and Urban Studies**  
 B.A., 1976, University of St. Thomas;  
 M.A., 1991, Mankato State University;  
 Ph.D., 1995, Florida State University.
- Warren J. Harold (1969) Associate Professor ..... Economics, Finance, 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.
- Wilkinson, Donald R. (1976) Associate Professor ..... Management and Marketing**  
 Associate Dean, College of Business  
 B.A., 1962 and M.A., 1966, Adams State College;  
 Ed.D., 1974, University of Wyoming.
- 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.

## DIVISION OF DEVELOPMENTAL STUDIES

- Butler, Nickolas M. (1994) Assistant Professor ..... Developmental Studies**  
 B.A., 1970 and M.A., 1975, University of Alabama.
- Davidson, Robert (1985) Professor ..... Developmental Studies**  
 B.S., 1970, Valdosta State College;  
 M.A., 1978, Pembroke State University;  
 Ed.D., 1984, University of Tennessee-Knoxville.
- Hardin, Sherri (1989) Assistant Professor ..... Developmental Studies**  
 B.S., 1987 and M.Ed., 1989, East Tennessee State University;  
 Ed.D., 1995, East Tennessee State University.
- Koehler, Anne (1990) Assistant Professor ..... Developmental Studies**  
 B.A., 1963, East Tennessee State University;  
 M.A., 1966, Georgetown University.
- McGill, Jamie (1993) Instructor ..... Developmental Studies**  
 B.S., 1990 and M.S., 1992, East Tennessee State University.
- Smith, Willie D. (2001) Instructor ..... Developmental Studies**  
 B.S., 1998 and M.A.L.S., 2001, East Tennessee State University.
- Stafford, Patricia (1991) Instructor ..... Developmental Studies**  
 B.S., 1979 and M.Ed., 1984, East Tennessee State University.
- Stephens, Daryl (1994) Assistant Professor ..... Developmental Studies**  
 B.S., 1983 and M.Ed., 1987, University of North Texas;  
 M.S., 1993, Texas Woman's University.

## COLLEGE OF EDUCATION

- Anderson, Marjorie (1999) Assistant Professor .. Curriculum and Instruction**  
 B.A., 1971, Sweet Briar College and Wake Forest University;  
 M.Ed., 1994 and Ph.D., 1999, University of North Carolina at Greensboro.
- Ayres, Christopher A. (1973) Assistant Professor ..... Physical Education, Exercise 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.
- Bearfield, Linda W. (1998) Instructor ..... University School**  
 B.S., 1976 and M.A., 1997, East Tennessee State University.
- Beauchamp, Barbara T. (2000) Instructor ..... Human Development and Learning**  
 B.A., 1989, Denison University;  
 M.A., 1991, Xavier University;  
 Ph.D., 2000, Spalding 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, Idaho State University;  
Ed.D., 1975, Idaho State University.
- Blakely, April (1997) Instructor** ..... University School  
B.S., 1988 and M.A., 1992, East Tennessee State University.
- 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.
- Broeder, Craig E. (1990) Professor** ..... Physical Education, Exercise and Sport Sciences  
**Director, Wellness Center**  
B.A., 1983 and M.S., 1985, North Texas State University;  
Ph.D., 1990, The University of Texas at Austin.
- Brown, Wesley C. (1980) Professor** ..... Human Development and Learning  
**Dean, School of Graduate Studies**  
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.
- Burleson, Rebecca (2000) Assistant Professor** ..... Human Development and Learning  
B.S., 1990 and M.Ed., 1996, East Tennessee State University;  
ABD, 1999, University of Kentucky.
- Clements, Andrea D. (1995) Associate Professor** ... Human Development and Learning  
B.S., 1982, M.A., 1984 and Ph.D., 1991, University of Alabama.
- Coates, Thomas E. (1998), Assistant Professor** ..... Interim Chair, Physical Education, Exercise, and Sport Sciences  
B.A., 1971, Mars Hill College;  
M.A., 1974, Western Carolina University;  
D.A., 1981, Middle Tennessee State University.
- Cockerham, J. Steve (1999) Instructor** ... Human Development and Learning  
B.A., 1975, University of North Carolina;  
M.A., 1990, University of West Georgia.
- Collins, Martha D. (1993) Professor** ..... Curriculum and Instruction  
**Dean, College of Education**  
B.S.Ed., 1967, University of Georgia;  
M.Ed., 1969 and Ph.D., 1972, Florida State University.
- Coutinho, Martha J. (1995) Associate Professor** .... Human Development and Learning  
B.A., 1974 and M.A., 1976, University of Colorado;  
Ph.D., 1981, University of Connecticut.
- Crumwell, Sidney E., Jr. (1997) Assistant Professor** ..... Curriculum and Instruction  
A.B., 1969, Benedict College;  
M.A.T., 1975, Lynchburg College;  
Certificate of Advanced Graduate Studies, 1987 and  
Ed.D., 1990, Virginia Polytechnic Institute and State University.
- 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 Poly-Technological Institute.
- Day, Ariane (2001) Instructor** ..... University School  
B.A., 1998, East Tennessee State University.
- De Hoyos, Diego (2002) Assistant Professor** ... Physical Education, Exercise and Sport Sciences  
B.A., 1987, Rollins College;  
M.A., 1990, University of Central Florida;  
Ph.D., 1999, University of Florida.
- Dishner, Nancy (1985) Associate Professor** ..... Educational Leadership and Policy Analysis  
B.S., 1977, M.A., 1980 and Ed.D., 1984, East Tennessee State University.
- 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.
- Driskell, Katherine T. (1984) Professor** ..... Curriculum and Instruction  
B.S., 1963, George Peabody College;  
M.S., 1965, University of Wisconsin;  
Ph.D., 1983, University of Tennessee.
- 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.
- Edirisooriya, Gunapala (1994) Associate Professor** ..... Educational Leadership and Policy Analysis  
**Associate Dean, College of Education**  
B. Comm., 1967, University of Ceylon, Sri Lanka;  
M.A., 1988 and Ph.D., 1990, University of Delaware.
- Edwards, Catherine E. (1995) Librarian** ..... University School  
B.S., 1979, East Tennessee State University;  
M.A.Ed., 1987, Tusculum College.
- Eineder, Dale (2001) Principal** ..... University School  
B.S., 1975 and M.Ed., 1981, Ohio University;  
Ph.D., 1996, University of Alabama.
- Erwin, Timothy A. (1997) Instructor** ..... University School  
B.S., 1983, East Tennessee State University;  
M.A., 1996, Tusculum College.
- Evenshen, Pamela A. (2001) Assistant Professor** .. Human Development and Learning  
B.A., 1982, Tusculum College;  
M.Ed., 1984 and Ed.D., 2001, East Tennessee State University.
- Ferland, Paula (1998) Instructor** ..... University School  
**Assistant Principal**  
B.S., 1984, Austin Peay State University;  
M.A., 1990, University of Tennessee, Knoxville.
- 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  
**Research 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.
- Frazier, Jean (1972) Senior Affiliate Faculty** ... Physical Education, Exercise, and Sport Sciences  
B.S., 1965 and M.A., 1970, East Tennessee State University.
- Freeberg, Karilee (1999) Professor** ..... Chair, Curriculum and Instruction  
B.A., 1963, University of Iowa;  
M.S., 1975, Iowa State University;  
Ph.D., 1977, Iowa State University of Science and Technology.

- Gemmer, Kathryn R. (1998) Instructor** ..... University School  
B.S., 1987 and M.S., 1989, University of Hawaii.
- Gordon, Anthony (1999) Instructor** ..... University School  
B.S., 1989, Western Carolina University.
- Gordon, Michele M. (1997) Instructor** ..... University School  
B.A., 1975, Iona College;  
M.A., 1985, School of International Training, Brattleboro,  
Vermont.
- Isbell, Rebecca T. (1975) Professor** ..... Human Development and Learning  
Director, Child Study Center  
B.S., 1964, University of Tennessee;  
M.A., 1973, East Tennessee State University;  
Ed.D., 1979, University of Tennessee.  
ETSU Distinguished Faculty Award, 1994.
- Jisha, Jay E. (2001) Assistant Professor** Physical Education, Exercise, and  
Sport Sciences  
B.A., 1990, Ohio Wesleyan University;  
M.S., 1993, St. Thomas University;  
Ph.D., 2001, Florida State University.
- Johnson, J. Woody (2000) Assistant Professor** ..... Human Development and  
Learning  
B.A., 1982 and M.A., 1987, East Carolina University;  
Ed.D., 1998 Northern Illinois University.
- Joy, Flora F. (1967) Senior Affiliate Faculty** ..... Curriculum and Instruction  
B.S., 1963 and M.A., 1967, East Tennessee State University;  
Ed.D., 1972, University of Tennessee.  
ETSU Distinguished Faculty Award, 1986 and 1998.
- Jungkeit, Patricia (1999) Instructor** ..... University School  
B.A., 1969, Messiah College;  
M.S., 1997, Xavier University.
- Kilgore, Hattie (1993) Instructor** ..... University School  
B.S., 1988, Clinch Valley College;  
M.A.T., Ed., 1991, East Tennessee State University.
- Kilgore, Robert D. (1990) Instructor** ..... University School  
B.S., 1965 and M.A., 1981, East Tennessee State University.
- Knight, Terri C. (1988) Instructor** ..... University School  
B.A., 1973, University of Charleston;  
M.S., 1981, Kansas State University.
- Knight, W. Hal (1986) Professor** ..... Educational Leadership and Policy  
Analysis  
Associate 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.
- Lindahl, Ronald A. (1995) Professor** ..... Chair, Educational Leadership and  
Policy Analysis  
B.M.Ed., 1970, M.S., 1975 and Ph.D., 1978, Florida State  
University;  
Specialist Degree, 1979, Universidade Federal de Brasilia.
- MacKay, Louise (1993) Associate Professor** ..... Educational Leadership and  
Policy Analysis  
B.A., 1957, Transylvania University, Lexington Kentucky;  
M.A., 1969 and Ph.D., 1983, George Peabody College for  
Teachers,  
Vanderbilt University.
- MacRae, Norma (1987) Professor** ..... Curriculum and Instruction  
Associate Vice President for Public Service and  
Dean of Continuing Studies  
A.B., 1969, University of Georgia;  
M.Ed., 1975 and Ed.D., 1980, University of Kentucky.
- Malkus, Amy J. (2000) Assistant Professor** ..... Human Development and  
Learning  
B.A., 1988, Washington College;  
M.S., 1992 and Ph.D., 1995, Purdue University.
- Manahan, Richard A. (1981) Professor** ..... Accountancy/Educational  
Leadership and Policy Analysis  
Vice President for University Advancement  
B.S., 1965, M.S., 1971 and Ed.D., 1975, Illinois State University;  
CPA, Tennessee, Virginia, and Illinois.
- Marks, Lori (1993) Associate 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.
- Mattioli, Denee J. (1997) Associate Professor** .... Curriculum and Instruction  
B.S., 1969, Westmar College;  
M.A., 1984 and Ph.D., 1990, University of Iowa.
- Mays, Russell O. (1997) Assistant Professor** .... Educational Leadership and  
Policy Analysis  
B.S., 1969, George Peabody College;  
M.S., 1973, University of Tennessee, Knoxville;  
Ed.S., 1977, Tennessee State University;  
Ed.D., 1986, George Peabody College of Vanderbilt University.
- McLean, James E. (2000)** ..... College of Education  
James H. Quillen Chair of Excellence in Teaching and Learning  
B.S.Ed., 1968, M.Stat., 1971 and Ph.D., 1974, University of Florida.
- Melendez, Jane E. (2000) Professor** ..... Curriculum and Instruction  
B.S., 1961, Eastern Michigan University;  
M.S., 1981 and Ph.D., 1991, Indiana University.
- Mitchell, Clifton W. (1992) Associate Professor** ..... Human Development and  
Learning  
B.A., 1974, Virginia Polytechnic Institute;  
M.A., 1976, Western Kentucky University;  
Ph.D., 1992, Indiana State University.
- Morrow, Brent (1986) Associate Professor** ..... Human Development and  
Learning  
B.A., 1969, University of California;  
M.A., 1977, Mennonite Brethren Seminary;  
Ph.D., 1986, Texas Tech University.
- Mozen, Diana M. (2000) Assistant Professor** ..... Physical Education,  
Exercise & Sport Sciences  
B.S., 1980, M.Ed., 1980 and Ph.D., 1998, Georgia State University.
- Myron, Mary C. (1997) Instructor** ..... University School  
B.A., 1994 and M.Ed., 1996, East Tennessee State University.
- Patel, Hina (2001) Instructor** ..... University School  
B.S., 1997, Georgia State University;  
M.Ed., 2001, East Tennessee State University.
- Perry, Leslie A. (1991) Associate Professor** ..... Curriculum and Instruction  
B.S.E., 1967, Central Methodist College;  
M.S., 1975, East Texas State University;  
Ph.D., 1979, University of Mississippi.
- Phillips, Laurelle B. (2000) Assistant Professor** .... Human Development and  
Learning  
B.A., 1964, Emory University;  
M.Ed., 1992, East Tennessee State University;  
Ph.D., 1999, University of Tennessee.
- Pindiprolu, Sekhar S. (2001) Assistant Professor** ..... Human Development  
and Learning  
B.S., 1989, Nagarjuna University, India;  
B.M.R., 1992, National Institute for the Mentally Handicapped, India;  
M.Ed., 1993, Kurukshetra University, India;  
M.Phil., 1995, Jamia Millia Islamia, India;  
Ph.D., 2000, Utah State University.
- Ralston, Elizabeth (1993) Assistant Professor** ... Curriculum and Instruction  
Acting Director, Field Services  
B.A., 1970, Texas A&I University;  
M.Ed., 1973 and Ed.D., 1978, Memphis State University.

- Reed, Delanna (1999) Instructor** ..... University School  
A.A., 1974, Eastfield College;  
B.A., 1976, East Texas State University;  
M.A., 1986, University of North Texas.
- Reeves, Lynda P. (1992) Assistant Professor** .. Physical Education, Exercise  
and Sport Sciences  
B.S.E., 1980, State University College at Cortland, NY;  
M.S., 1984, James Madison University;  
Ph.D., 1991, Texas Women's University.
- Rhoton, Jack (1987) Associate 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.
- Roberts, Lloyd T. II (1973) Senior Affiliate Faculty** ..... Physical Education,  
Exercise and Sport Sciences  
B.S., 1961 and M.A., 1965, East Tennessee State University;  
Ed.D., 1973, University of Mississippi.
- Robertson, Jerry L. (1965) Associate Professor** ..... Physical Education,  
Exercise and Sport Sciences  
Head Athletics Trainer, Athletic Department  
B.S., 1964, East Tennessee State University;  
M.E., 1965, Mississippi State University.
- Robertson, Laura (2001) Instructor** ..... University School  
B.S., 2000 and M.S., 2001, University of Tennessee.
- Robertson, Patricia E. (1997) Assistant Professor** ..... Chair, Human  
Development and Learning  
B.A., 1973, University of North Carolina at Chapel Hill;  
M.A.Ed., 1974, Western Carolina University;  
Ed.D., 1990, University of North Carolina at Greensboro.
- Shaver, Wendy (1999) Instructor** ..... University School  
B.S., 1992, Bucknell University;  
M.A.T., 1998, East Tennessee State University.
- Shelton, Janice C. (1968) Senior Affiliate Faculty** ..... Physical Education,  
Exercise and Sport Sciences  
B.S., 1966, Georgetown College;  
M.A., 1968, University of Kentucky;  
Ed.D., 1979, University of North Carolina at Greensboro.
- Shoun, Peter W. (1970) Senior Affiliate Faculty** ..... Physical Education,  
Exercise and Sport Sciences  
B.S., 1966 and M.A., 1970, East Tennessee State University;  
D.M.A., 1980, Middle Tennessee State University.
- Smith, Jean (1999) Instructor** ..... University School  
B.S., 1970 and B.S., 1971, Florida State University;  
M.Ed., 1995, East Tennessee State University.
- Smith, William D., (1999) Assistant Principal** ..... University School  
B.S.W., 1971 and M.A., 1978, East Tennessee State 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.
- 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.
- 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** ..... Educational Leadership and Policy  
Analysis  
A.B., 1961, University of Michigan;  
M.B.A., 1963, Michigan State University;  
Ph.D., 1975, University of Michigan.
- Weniger, Sandra A. (1997) Instructor** ..... University School  
B.A., 1989, Trinity College;  
M.A., 1996, East Tennessee State University.
- West, Russell F. (1988) Professor** ..... Educational Leadership and Policy  
Analysis  
B.S., 1975 and M.A., 1978, Michigan State University;  
Ed.D., 1981, North Carolina State University.
- Whitmore, Harold L. (1970) Professor** ... 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) Assistant Professor** ..... Human Development and  
Learning  
B.A., 1977 and M.A., 1979, University of Arkansas;  
Ph.D., 1993, University of Southern Mississippi.

## SCHOOL OF GRADUATE STUDIES

**Brown, Wesley C. (1980) Professor** ..... Dean, School of Graduate Studies  
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.

**Herrin, Roberta T. (1976) Professor** ..... English  
Associate Dean, School of Graduate Studies  
B.S., 1970 and M.A., 1972, East Tennessee State University;  
Ph.D., 1986, University of Tennessee.

## 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, University of New York at Albany.

**Agarwal, Sanjay (1999) Assistant Professor** ..... Surgery  
B.S., 1984, Concord College;  
M.D., 1989, Western Virginia University.

**Airhart, Mark J. (1984) Associate Professor** ..... Anatomy and Cell Biology  
B.S., 1966, State University of New York at 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,  
James H. Quillen College of Medicine.

**Anand, Rajani (1991) Assistant Professor** ..... Pediatrics  
M.D., 1983, University of Mysore, India.

- Ardell, Jeffrey L. (1998) Professor** ..... Pharmacology  
B.A., 1975, Colorado College;  
Ph.D., 1980, University of Washington.
- Duffourc, Michelle M. (1998) Assistant Professor** ..... Pharmacology  
B.S., 1985 and Ph.D., 1993, University of South Alabama.
- 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) Associate Professor** .... Psychiatry and Behavioral Sciences  
B.A., 1980, Brown University;  
Ph.D., 1988, State University of New York at Buffalo.
- Bagnell, Philip C. (1991) Professor** ..... Pediatrics  
Adjunct Faculty, Internal Medicine  
Executive Associate Dean, Academic and Faculty Affairs  
M.D., 1968, Dalhousie University, Nova Scotia.
- Baisden, Ronald H. (1978) Professor** ..... Anatomy and Cell Biology  
B.S., 1968 and Ph.D., 1973, University of Florida.
- 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.
- Battle, J. Wayne (1994) Professor** ..... Surgery  
A.B., 1961, University of North Carolina;  
M.D., 1965, University of North Carolina School of Medicine.
- Bayard, Max (1999) Assistant Professor** ..... Family Medicine  
B.A., 1976, Baptist Bible College;  
B.S., 1987, Memphis State University;  
M.D., 1991, East Tennessee State University,  
James H. 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.
- Bieber, Jeffry D. (2001) Assistant Professor** ..... Internal Medicine  
B.A., 1992, University of Tennessee, Knoxville;  
M.D., 1998, James H. Quillen College of Medicine, East Tennessee  
State University.
- Blackwelder, Reid B. (1992) Associate Professor** ..... Family Medicine  
Program Director, Kingsport  
B.S., 1980, Haverford College;  
M.D., 1984, Emory University School of Medicine.
- Block, William A. Jr. (1998) Assistant Professor** ..... Obstetrics/Gynecology  
B.S., 1988, The University of the South;  
M.D., 1992, East Tennessee State University,  
James H. 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.
- Bowron, Christopher R. (1998) Assistant Professor** .... Learning Resources  
B.A., 1992, Warren Wilson College;  
M.L.I.S., 1994, University of South Carolina.
- 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.
- Buyck, David W. (1999) Assistant Professor** ..... Family Medicine  
Associate Program Director, Kingsport  
B.A., 1992 and Ph.D., 1998, University of South Carolina, Columbia.
- Byrd, Ryland P. Jr. (1995) Professor** ..... Internal Medicine  
B.A., 1978, Wake Forest University;  
M.D., 1985, University of Louisville.
- Cable, Thomas A. (1995) Professor** ..... Family Medicine  
Program Director, Chattanooga  
M.D., 1976, University of Florida School 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) Assistant 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 at 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.
- Chidambaram, Bala S. (2000) Assistant Professor** ..... Internal Medicine  
M.B.B.S., 1984, Madras University, India.
- 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.
- Clarity, Gregory E. (1995) Assistant Professor** ..... Family Medicine  
Associate Program Director, Bristol  
B.E., 1982, The Cooper Union;  
M.D., 1993, East Tennessee State University,  
James H. Quillen College of Medicine.
- Clark, Kenneth H. (1984) Assistant Professor** ..... Obstetrics/Gynecology  
B.S., 1970, East Tennessee State University;  
M.D., 1973, University of Tennessee, Memphis.
- 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) Assistant Professor** ..... Surgery  
B.S., 1989, East Tennessee State University;  
M.D., 1993, East Tennessee State University,  
James H. Quillen College of Medicine.
- Coogan, Philip S. (1978) Professor** ..... Pathology  
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.
- Coyle, Brent R. (1993) Associate Professor ..... Psychiatry and Behavioral Sciences**  
**Director, Residency Training**  
B.A., 1982, Concordia College;  
M.D., 1986, University of Minnesota Medical School.
- 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.
- Dalle-Ave, Mark J. (1995) Assistant Professor ..... Family Medicine**  
B.A., 1981, Indiana University;  
M.D., 1990, Escuela Autonomade Ciencias Medicas De Centro America  
Doctor of Medicine.
- D'Aprile-Lukes, 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) Associate Professor ..... Pediatrics**  
B.A., 1974, Miami University;  
M.D., 1977, Ohio State University College of Medicine.
- Douglas, John E. (1980) Professor ..... Internal Medicine**  
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.
- Dun, Nae J. (1997) Professor ..... Chair, Pharmacology**  
B.S., 1969, University of Illinois College of Pharmacy;  
Ph.D., 1974, Loyola University of Chicago.  
ETSU Distinguished Faculty Award, 2001.
- 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,  
James H. 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.
- 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.
- Fennell, Elton G. (1999) Assistant Professor ..... Obstetrics/Gynecology**  
B.S., 1979, Medical University of South Carolina;  
M.D., 1982, American University of the Caribbean.
- 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.
- Fisher, Janet S. (1975) Professor ... Director for Development and Outreach**  
A.B., 1965, Jacksonville State University;  
M.S., 1966, Florida State University.
- 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.
- Franks, Ronald D. (1997) Professor ..... Psychiatry and Behavioral Sciences**  
**Vice President for Health Affairs**  
**Dean, College of Medicine**  
M.D., 1971, University of Michigan Medical School.
- Frizzell, Peter G. (2001) Assistant Professor ..... Psychiatry**  
B.S., 1977, Milligan College;  
M.D., 1991, East Tennessee State University James H. 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**  
B.S., 1960 and M.D., 1977, University of Illinois.
- Gerber, Carl J. (1993) Professor ..... Hospital Administration/**  
**Psychiatry and Behavioral Sciences**  
Ph.D., 1960, Washington University;  
M.D., 1967, Duke University School of Medicine.
- 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.
- Guha, Bhuvana (1996) Assistant Professor ..... Internal Medicine**  
M.B.B.S., 1989, Taniore Medical College, India.

- Haaser, Richard C. (1998) Assistant Professor .... Psychiatry and Behavioral Sciences**  
B.S., 1980, University of Notre Dame;  
M.D., 1984, Tufts University School of Medicine.
- Hall, John R. (1996) Professor ..... Surgery  
Director of Trauma Service, HVMC**  
B.S., 1974, Stanford University;  
M.D., 1977, University of Arizona College of Medicine.
- Hamdy, Ronald C. (1985) Professor ..... Internal Medicine  
Adjunct Faculty, Psychiatry/Division of Clinical Nutrition  
Chairholder, Cecile Cox Quillen Chair in Geriatrics and Gerontology**  
M.B.Ch.B., 1968 and D.M., 1971, University of Alexandria,  
Egypt;  
M.R.C.P., 1973, Royal College of Physicians, England.
- Hancock, John C. (1977) Professor ..... Pharmacology**  
B.S., 1962, University of Missouri at Kansas City;  
M.S., 1965 and Ph.D., 1967, University of Texas.  
ETSU Distinguished Faculty Award, 2001.
- 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.
- Harlan, Gretel C. (1998) Assistant Professor ..... Forensic Pathology**  
M.D., 1974, University of Tennessee, Memphis.
- Harvill, Leo M. (1977) Professor ..... Assistant Dean, Medical Education**  
B.S., 1963, M.A., 1966 and Ph.D., 1969, University of Nebraska.
- 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.
- Henson, Donald L. (1997) Assistant Professor .... Psychiatry and Behavioral Sciences**  
B.A., 1984, University of North Carolina-Asheville;  
M.D., 1988, East Carolina University.
- Herd, J. Kenneth (1978) Professor Emeritus ..... Pediatrics**  
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.
- 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  
Associate Program 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.
- Hossier, 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,  
James H. Quillen College of Medicine.
- Hudgins, Larry (1992) Professor ..... Internal Medicine**  
B.S., 1968, University of Tennessee, Knoxville;  
M.D., 1971, University of Tennessee-Memphis.
- 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  
Adjunct Faculty, Obstetrics/Gynecology  
Director, Division of Urology/Division of Transplant Surgery**  
M.D., 1975, Medical College, Baroda, India.
- Joyner, William L. (1989) Professor ..... Chair, Physiology  
Adjunct Faculty, Internal Medicine**  
B.S., 1965, Davidson College;  
M.S.P.H., 1967 and Ph.D., 1971, University of North Carolina, Chapel Hill.
- Kalbfleisch, John H. (1988) Professor ..... Medical Education  
Director, Division of Biometry and Medical Computing**  
B.S., 1965 and M.A., 1966, Western Michigan University;  
Ph.D., 1970, University of Oklahoma.
- Kalwinsky, David K. (1990) Professor ..... Chair, Pediatrics  
Adjunct Faculty, Internal Medicine**  
B.A., 1969, Temple University;  
M.D., 1973, University of Pennsylvania School of Medicine.
- Kao, Race L. (1992) Professor ..... Surgery  
Adjunct Faculty, Physiology  
Chairholder, Carroll H. Long Chair in Surgical Research**  
B.S., 1965, National Taiwan University, Taiwan;  
M.S., 1971 and Ph.D., 1972, University of Illinois.
- Kaplon, Michael K. (1992) Assistant 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.
- Karthikeyan, Narayanan (1998) Instructor ..... Biochemistry and Molecular Biology**  
B.S., 1987, Peru State College, Peru;  
Ph.D., 1993, University of Tennessee, Knoxville.
- Katras, Tony (1996) Associate Professor ..... Surgery**  
B.A., 1976, East Tennessee State University;  
D.D., 1979, Harding University;  
M.D., 1984, East Tennessee State University.
- Kayser, Allen (2001) Associate Professor ..... Psychiatry**  
B.G.S., 1972, University of Nebraska, Omaha;  
M.D., 1979, West Virginia University.
- Keiter, Robert (1994) Assistant Professor ..... Psychiatry and Behavioral Sciences**  
M.D., 1967, University of North Carolina School of Medicine.

- Kelley, Jim (1996) Associate Professor** ..... **Internal Medicine**  
B.S., 1969, Southern Nazarene University, Bethany, Oklahoma;  
Ph.D., 1973, University of Oklahoma, Norman.
- Kemp, Evelyn C. (2001) Assistant Professor** ..... **Family Medicine**  
B.S., 1995, and Psy.D., 1999, Wright State University.
- Khaja, Nizamuddin (1998) Assistant Professor ... Psychiatry and Behavioral Sciences**  
M.D., 1986, Siddhartha Medical College, Nagarjuna University, India.
- Kilpatrick, Sandra L. (1996) Assistant Professor** ..... **Family Medicine**  
B.A., 1987, University of New Mexico;  
M.A., 1990 and Ph.D., 1994, State University of New York, Binghamton.
- Kimbrough, Barbara O. (1980) Professor** ..... **Surgery**  
**Director, Division of Ophthalmology**  
B.S., 1972, Iowa State University;  
M.D., 1976, Mayo Medical School.
- Knight, T. T. (1997) Professor** ..... **Surgery**  
B.A., 1955 and M.D., 1959, University of Louisville.
- Kohatsu, Wendy (1999) Assistant Professor** ..... **Family Medicine**  
B.S., 1989, University of California, Irvine;  
M.D., University of California, Los Angeles School 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.
- 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.
- Leeper, Stephanie C. (1990) Associate Professor** ..... **Internal Medicine**  
**Director of Ambulatory Care Training**  
B.S., 1983, East Tennessee State University;  
M.D., 1987, East Tennessee State University,  
James H. Quillen College 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) Assistant Professor** ..... **Surgery**  
**Adjunct Faculty, Pharmacology**  
M.S., 1986, Nanjing Medical University, China;  
M.D., 1978, Nanjing Medical University of China.
- Lloyd, Jacqueline J. (2000) Associate Professor** ..... **Family Medicine**  
**Director of Geriatric Programs**  
B.A., 1972, Cheyney University,  
M.D., 1977, Hahneman Medical College.
- Lockett, Mark (2001) Assistant Professor** ..... **Surgery**  
B.A., 1990, Furman University;  
M.D., 1994, Medical University of South Carolina.
- Loyd, Stephen D. (2001) Assistant Professor** ..... **Internal Medicine**  
B.S., 1994, University of Tennessee, Knoxville  
M.D., 1998, East Tennessee State University James H. Quillen College of Medicine.
- Massengill, Raymond Jr. (1977) Professor** ..... **Surgery**  
**Adjunct Faculty, Communicative Disorders**  
**Assistant Dean/Director of Medical Education**  
B.S., 1959 and M.S., 1959, University of Tennessee;  
Ed.D., 1968, University of Virginia.
- Mayberry, William R. (1978) Professor** ..... **Associate Chair, Microbiology**  
B.A., 1961, University of Colorado;  
M.A., 1963, Western State College of Colorado;  
Ph.D., 1966, University of Georgia.
- Mayberry-Carson, Katie J. (1979) Associate Professor** ..... **Microbiology**  
B.S., 1962, M.S., 1964 and Ph.D., 1966, University of Georgia.
- McCord, Elizabeth C. (1996) Associate Professor** ..... **Family Medicine,**  
**Program Director, Johnson City**  
B.S., 1974, Virginia Commonwealth University;  
M.D., 1988, Virginia Commonwealth University  
Medical College of Virginia.
- McCoy, Sue (1986) Professor** ..... **Surgery**  
**Adjunct Faculty, Biochemistry**  
A.B., 1957, Radcliffe College;  
Ph.D., 1964, Johns Hopkins University;  
M.D., 1980, University of Virginia School of Medicine.
- McElroy, Aubrey D. (2001) Assistant Professor** ..... **Family Medicine**  
B.S., 1983, University of North Alabama;  
M.D., 1988, University of Tennessee, Memphis.
- McGowen, K. Ramsey (1985) Associate Professor** ..... **Psychiatry and Behavioral Sciences**  
B.S., 1975, M.S., 1977 and Ph.D., 1981, Auburn University.
- 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) Assistant Professor** ..... **Psychiatry and Behavioral Sciences**  
B.A., 1975, University of Tennessee-Chattanooga;  
Ph.D., 1983, University of Tennessee-Memphis.
- Miller, Merry N. (1995) Professor** ..... **Interim Chairm, Psychiatry and Behavioral Sciences**  
B.S., 1975, Southwestern at 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,  
James H. 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.
- Moorman, Jonathan P. (2000) Associate Professor** ..... Internal Medicine  
B.S., 1987, Loyola College;  
M.D., 1991, University of Virginia School of Medicine.
- Moynihn, Patricia C. (1991) Professor** ..... Surgery  
**Adjunct Faculty, Pediatrics**  
**Director, Division of Pediatrics Surgery**  
B.S., 1959, University of Southern Mississippi;  
M.D., 1965, University of Mississippi School of Medicine.
- Mullersman, Jerald (2000) Associate Professor** ..... Pathology  
M.D./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) Assistant Professor** ..... Internal Medicine  
B.S., 1981, East Tennessee State University;  
M.D., 1985, Wake Forest University.
- Nunley-Gorman, Diana L. (1987) Associate Professor** ..... Internal Medicine  
B.A., 1979, Carson-Newman College;  
M.D., 1983, East Tennessee State University,  
James H. Quillen College 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) Associate Professor** ... Chair, Obstetrics/Gynecology  
**Adjunct Faculty, Pediatrics**  
B.S., 1981, Muskingum College;  
M.D., 1985, Medical School of Ohio.
- Ossorio, Miquel A. (1996) Associate Professor** ..... Internal Medicine  
M.D., 1979, University Centro Occidental, Venezuela.
- Pandian, Shantha (2001) Assistant Professor** ..... Psychiatry  
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.Sc., 1971;  
Ph.D., 1975, Indian Institute of Science, Bangalore, India.
- Parveen, Talat (2001) Assistant Professor** ..... Pathology  
M.S., 1986, University of Florida;  
M.D., 1976, Fatima Jinnah Medical College.
- Peiris, Alan N. (1993) Professor** ..... Internal Medicine  
M.B.B.S., 1977 and M.D., 1990, University of London.
- Pennington, Glenn (2000) Professor** ..... Surgery  
B.A., 1962, University of Mississippi, Jackson;  
M.D., 1966, University of Mississippi, Oxford.
- Pillinger, Lynn (1981) Professor** ..... Internal Medicine  
B.S., 1972, Duke University;  
M.D., 1977, Medical University of South Carolina.
- Pollitte, Jonathan (2001) Assistant Professor** ..... Internal Medicine  
B.S., 1990, Kentucky Wesleyan College;  
M.D., 1999, East Tennessee State University James H. Quillen College  
of Medicine.
- Ponnappa, Biddanda (Suresh) P. (1999) Professor** ..... Assistant Dean,  
**Learning Resources, Director of Library**  
B.Sc., 1970, University of Agricultural Sciences, Bangalore, India;  
M.S.L.S., 1984, University of Tennessee, Knoxville.
- Pop, Anca (2000) Clinical Assistant Professor** ..... Internal Medicine  
B.S., 1985, St. Save College, Bucharest, Romania;  
M.S., 1991, Medical and Pharmaceutical University, Bucharest, Romania.
- Powers, Ruby R. (2001) Instructor** ..... 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.
- Pryor, Elizabeth (2001) Assistant Professor** ..... Obstetrics/Gynecology  
B.S., 1983 and M.D., 1988, University of North Carolina.
- Pumariega, Andres J. (1996) Professor** ..... Psychiatry and Behavioral  
**Sciences**  
**Director of Child and Adolescent Psychiatry**  
B.S., 1973 and M.D., 1976, University of Miami.
- Radford, J. Michael (1995) Assistant Professor** ... Psychiatry and Behavioral  
**Sciences**  
B.A., 1985, University of Tennessee, Chattanooga;  
M.D., 1990, East Tennessee State University,  
James H. Quillen College of Medicine.
- Ramu, Vijay (1999) Clinical Assistant Professor** ..... Internal Medicine  
B.S., 1994, Bangalore Medical College, Bangalore, India;  
M.D., 1999, East Tennessee State University James H. 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  
Ph.B., 1945, B.S., 1947, M.S., 1948 and Ph.D., 1950,  
The University of Chicago.  
ETSU Distinguished Faculty Award, 1989.
- Raulston, Jane E. (2000) Associate Professor** ..... Microbiology/Pathology  
B.S., 1984, East Tennessee State University;  
Ph.D., 1988, University of Tennessee.
- 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**  
B.S., 1953, Furman University;  
M.D., 1957, Duke University School of Medicine.
- Robbins, Sherry L. (1998) Assistant Professor** ..... Family Medicine  
B.S., 1984, East Tennessee State University;  
M.D., 1989, East Tennessee State University,  
James H. Quillen College 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.
- Roth, R. Eric (1997) Assistant Professor** ..... **Psychiatry and Behavioral Sciences**  
 B.A., 1987, University of Kansas;  
 M.Ed., 1990, University of Illinois;  
 M.S., 1994 and Psy.D., 1996, Nova Southeastern University.
- Rowe, Brian P. (1981) Professor** ..... **Physiology**  
 B.Sc., 1974 and Ph.D., 1977, University of Southampton, England.
- Roy, Thomas M. (1994) Professor** ..... **Internal Medicine**  
**Chief, Division of Pulmonary Diseases**  
**Associate Chair for Faculty/ Resident Development and Research**  
 B.A., 1969, University of Louisville;  
 M.D., 1973, University of Louisville School of Medicine.
- Rush, Daniel S. (1997) Professor** ..... **Surgery**  
**Director, Division of Vascular Surgery**  
 B.A., 1971, Centre College of Kentucky;  
 M.D., 1976, University of Kentucky School 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.
- Santos, Mary (1998) Assistant Professor** ..... **Surgery**  
 B.S., 1982, John Hopkins University;  
 M.D., 1986, University of Medicine and Dentistry of New Jersey, Newark.
- Sarubbi, Felix A. (1987) Professor** ..... **Internal Medicine**  
**Chief, Division of Infectious Disease**  
**Assistant Dean/Director of Medical Education-VAMC**  
 B.S., 1965, Manhattan College;  
 M.D., 1969, New York University School of Medicine.
- Schacht, Thomas E. (1985) Professor** ... **Psychiatry and Behavioral Sciences**  
 B.A., 1973, Connecticut College;  
 Psy. D., 1980, Rutgers University.
- Schambra, Uta B. (1993) Assistant Professor** ..... **Anatomy and Cell Biology**  
 B.S., 1960, Apothekerkammer, Kassel, Germany;  
 M.S., 1965, Niedersachsischer Sozialminister, Hanover, Germany;  
 Ph.D., 1988, University of North Carolina, Chapel Hill.
- 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.
- 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.
- Simman, Richard (2001) Assistant Professor** ..... **Surgery**  
 M.D., 1991, Louvain Catholic University, Brussels, Belgium.
- 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.
- 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.
- Smith, J. Kelly (1979) Professor Emeritus** ..... **Internal Medicine**  
 B.A., 1957, Cornell University;  
 M.D., 1960, Cornell 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,  
 James H. 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.
- 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.
- 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**  
 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.
- Tudiver, Fraser G. (2001) Professor** ..... **Family Medicine**  
 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.
- Vance, Hubert R. "Booney" (1997) Associate Professor** ..... **Psychiatry and**

- Behavioral Sciences**
- B.S., 1966 and M.A., 1969, East Tennessee State University;  
Ph.D., 1973, Ohio State University.
- Velasco, Jose P. Assistant Professor** ..... **Family Medicine**  
B.S., 1981 and M.D., 1985, University of Santo Thomas, Philippines.
- 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,  
James H. 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) Associate Professor** ..... **Pediatrics**  
M.D., 1977, Padova University, Italy.
- Washington, Judy C. (1996) Assistant Professor** ..... **Family Medicine**  
B.S., 1979, University of Montevallo, Alabama;  
M.D., 1983, Meharry Medical College.
- Watkins, Donna J. (1995) Assistant Professor** ..... **Assistant Director,**  
**Learning Resources**  
B.S., 1982, University of Wisconsin;  
M.Libr., 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,  
James H. 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) Associate 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**  
**Associate Vice President for Research**  
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.
- Wyrick, Priscilla B. (2000) Professor** ..... **Chair, Microbiology**  
B.S., 1963, M.S., 1967 and Ph.D., 1971, University of North Carolina.
- Young, Mark F. (1992) Associate Professor** ..... **Internal Medicine**  
B.S., 1981, East Tennessee State University;  
M.D., 1985, East Tennessee State University,  
James H. 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.
- Zahorik, Pamela M. (1995) Associate Professor** ..... **Family Medicine**  
B.A., 1981, Colorado College;  
Ph.D., 1991, Case Western Reserve University.
- Zakaria, Wael N. (1994) Assistant Professor** ..... **Internal Medicine**  
M.D., 1983, University of Jordan School of Medicine, Jordan.
- Zou, Yue (2001) Associate Professor** ..... **Biochemistry & 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**  
**Interim Chair, Professional Roles/Mental Health Nursing**  
B.S.N., 1968, Medical College of Virginia;  
M.S., 1972, Virginia Commonwealth University;  
Ph.D., 1987, University of Tennessee-Knoxville.
- Anderson, Mary Katherine (1995) Associate Professor** .... **Family/Community**  
**Nursing**  
B.A., 1971 and B.S.N., 1975, University of Wisconsin-Madison;  
M.S.N., 1988, University of Wisconsin-Oshkosh;  
Ph.D., 1992, University of Michigan.
- Blowers, Sally S. (1996) Assistant 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.
- Conco, Diana D. (2001) Assistant Professor** ..... **Adult Nursing**  
B.S.N., 1974, University of Maryland;  
M.S.N., 1979, Medical College of Georgia;  
Ph.D., 1993, University of South Carolina.
- 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** ..... **Chair, Adult Nursing**  
B.S., 1968, Michigan State University;  
M.S., 1975, University of Michigan;  
Ph.D., 1982, University of Michigan.
- Edds, Judy A. (2001) Assistant Professor** ..... **Practice and Research**  
B.S.N., 1971, East Tennessee State University;  
M.S.N., 1991, University of Tennessee-Knoxville;  
Ed.D., 2001, East Tennessee State University.
- Edwards, Joellen B. (1989) Professor** ..... **Family/Community Nursing**  
**Dean, College of Nursing**  
A.D.N., 1974, Kent State University;  
B.S.N., 1979, Ohio University;  
M.S.N., 1982, West Virginia University;  
Ph.D., 1988, Ohio University.

- Glenn, Loyd Lee (1992) Professor** ..... Professional Roles/Mental Health Nursing  
B.A., 1974, University of California;  
Ph.D., 1979, Stanford University.
- Grover, Susan M. (1980) Associate 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) Assistant Professor** ..... Adult Nursing  
B.S.N., 1981, Grand View College;  
M.S., 1985, University of Minnesota;  
Ph.D., 1997, Georgia State University.
- Hemphill, Jean C. (1997) Assistant Professor** ... Family/Community Nursing  
B.S.N., 1976 and M.S.N., 1985, University of Tennessee, Knoxville.
- Kaudiwitz, Laurie A. (1985) Assistant Professor** ..... Family/Community Nursing  
B.S.N., 1974 and M.S.N., 1978, University of Michigan.
- Kerley, Linda J. (1984) 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 at Greensboro;  
Ph.D., 1993, University of Texas at Austin.
- King, Marjorie S. (1996) Assistant Professor** ..... Professional Roles/Mental Health Nursing  
B.S.N., 1970, Duquesne University;  
M.N.Ed., 1976, University of Pittsburgh;  
Ed.D., 1998, East Tennessee State University.
- Kirk, Celesta C. (1971) Associate Professor** ..... Family/Community Nursing  
B.S.N., 1963, Vanderbilt University;  
M.A., 1977, East Tennessee State University;  
M.S.N., 1989, University of Virginia.
- Lowry, Lois W. (1999) Professor** ..... Family/Community Nursing  
B.S.N., 1955, Cornell University;  
M.N., 1977, University of Florida;  
D.N.Sc., 1987, University of Pennsylvania.
- May, Barbara A. (2000) Assistant Professor** ..... Professional Roles/Mental Health Nursing  
B.S.N., 1967, California State University;  
M.S., 1978, Drexel University;  
B.S.N., 1983, Murray State University;  
M.S.N., 1996, University of Iowa.  
Ph.D., 2000, University of Tennessee-Knoxville.
- McCabe, Susan (1994) Associate Professor** ..... Professional Roles/Mental Health Nursing  
B.S.N., 1982, Syracuse University;  
M.S., 1988, Russell Sage College;  
Ed.D., 1997, East Tennessee State University.
- McConnell, Peggy R. (1974) Assistant Professor** ..... Adult Nursing  
B.S.N., 1970, East Tennessee State University;  
M.S.N., 1971, Emory University.
- McCook, Judy G. (1997) Assistant Professor** ..... Family/Community Nursing  
B.S.N., 1976, Medical College of Georgia;  
M.S.N., 1979, University of Alabama, Birmingham.
- Merriman, Carolyn S. (1996) Assistant Professor** ..... Family/Community Nursing  
B.S.N., 1979, University of Evansville;  
M.S.N., 1983, Texas Woman's University.
- Poole, Deborah K. (2000) Assistant Professor** ..... Adult Nursing  
B.S.N., 1983 and M.S.N., 1986, University of North Carolina-Chapel Hill;  
Ph.D., 1999, Medical College of Georgia.
- Quillin, Stephanie I. (1992) Associate Professor** ..... Family/Community Nursing  
B.S.N., 1963, Capital University;  
M.S., 1969, University of California, San Francisco Medical Center;  
Ph.D., 1983, Wayne State University.
- Ramsey, Priscilla W. (1990) Associate Professor** ..... Adult Nursing  
Diploma, 1960, Massachusetts General Hospital School of Nursing;  
B.S.N., 1976 and M.S.N., 1979, Clemson University;  
Ph.D., 1990, University of Virginia.
- Rayman, Kathleen M. (1999) Assistant Professor** ..... Professional Roles/Mental Health Nursing  
B.S.N., 1978, University of Pittsburgh;  
M.S.N., 1987 and Ph.D., 1994, University of Virginia.
- Reesman, Karen S. (1993) Assistant Professor** ..... Family/Community Nursing  
B.S.N., 1974, Rutgers University;  
M.A., 1977, New York University;  
Ph.D., 2000, University of Tennessee-Knoxville.  
ETSU Distinguished Faculty Award, 2001.
- Reeves, Amy L. (2002) Assistant Professor** ..... Professional Roles/Mental Health Nursing  
A.D., 1987, Belmont College;  
B.S.N., 1993, University of the State of New York;  
M.S.N., 1994, Vanderbilt University.
- Rice, Judith B. (2000) Assistant Professor** ..... Professional Roles/Mental Health Nursing  
B.S., 1988, B.S.N., 1994 and M.S.N., 1996, East Tennessee State University.
- Schaller-Ayers, Jennifer M. (2001) Associate Professor** ... Family/Community Nursing  
B.S., 1969, San Jose State College;  
M.N.Sc., 1982, University of Arkansas for Medical Sciences;  
Ph.D., 1994, Oregon Health Sciences University.
- Seymour, Rosalee J. (1993) Associate Professor** ..... Professional Roles/Mental Health Nursing  
B.S.N., 1971, West Chester University;  
M.S., 1980 and Ed.D., 1991, University of Delaware.
- Shell, Renee C. (1999) Assistant Professor** ..... Adult Nursing  
A.A.S., 1985, 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  
Associate Dean, Academic Programs  
B.S.N., 1964, Northwestern State University;  
M.S.N., 1977, Medical College of Georgia;  
Ed.D., 1989, University of Tennessee-Knoxville.
- Trumbley, Sharon G. (1993) Assistant Professor** ..... Family/Community Nursing  
B.S.N., 1971, Columbia University;  
M.S.N., 1977, Boston College.
- Wachs, Joy E. (1993) Professor** ..... Family/Community Nursing  
B.S.N., 1976, University of Wisconsin-Eau Claire;  
M.S., 1980, University of Wisconsin-Milwaukee;  
Ph.D., 1986, University of Illinois-Chicago.  
ETSU Distinguished Faculty Award, 2000.
- Walls, Jennie E. (1996) Associate Professor** ..... Family/Community Nursing  
B.S.N., 1972, East Tennessee State University;  
M.S.N., 1976, University of Tennessee, Memphis.
- Willock, Katherine M. (1998) Assistant Professor** ..... Family/Community Nursing  
B.A., 1973, Concordia College;  
A.D.N., 1980, North Iowa Area Community College;  
B.S.N., 1988, University of Texas-Arlington;  
M.S., 1990, Texas Woman's University;  
Ph.D., 1998, Kansas State University.

## COLLEGE OF PUBLIC AND ALLIED HEALTH

- Barnes, W. Gail (1988, 1995) Assistant Professor** ..... Dental Hygiene  
Certificate of Dental Hygiene, 1983, Howard University;  
B.S., 1985 and M.S., 1987, University of North Carolina at Chapel Hill;  
Ph.D., 1999, Ohio State University.

- Barnhart, Robert C. (1996) Assistant Professor ..... Academic Coordinator of Clinical Education, Physical Therapy**  
B.A., 1977, West Virginia Wesleyan College;  
Certificate Physical Therapy, 1979, Emory University;  
M.S., 1992, University of Tennessee, Knoxville.
- Barr, Sue G. (1980) Senior Affiliate Faculty ..... Health Sciences**  
B.S., 1954 and M.S., 1968, East Tennessee State University;  
Ed.D., 1987, University of Tennessee, Knoxville.
- 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 (1978) Professor ..... Public Health Dean, College of Public and Allied Health**  
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., 1997, State University of New York;  
M.Ed., 1998, East Tennessee State University.
- Burrow, Troy E. (2000) Clinical Instructor ..... Environmental Health**  
B.S.E.H., 1965, Henderson State University;  
M.S.E.H., 1974, East Tennessee State University.
- 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.
- Cherry, Shirley J. (2001) Assistant Professor ..... Radiography**  
B.S., 1990, Salem-Teikyo University;  
M.B.A., 1995, Kent State University.
- 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.
- Dunn, Michael S. (2001) Assistant Professor ..... Public Health**  
B.A., 1994 and M.S.H., 1996, University of North Florida;  
Ph.D., 1999, University of Alabama
- Epps, Susan B. (2001) Clinical Instructor ..... Physical Therapy**  
B.A., 1988, Wake Forest University  
M.A., 1995, Appalachian State University.
- Ennis, Lee (1999) Assistant Professor ..... Communicative Disorders**  
B.S., 1972 and M.S., 1980, University of South Carolina;  
Ph.D., 1999, University of Florida.
- Fagelson, Marc A. (1996) Assistant Professor ..... Communicative Disorders**  
B.A., 1986, Columbia University, School of General Studies;  
M.S., 1990, Columbia University, Teachers College;  
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# Undergraduate Majors - Colleges and Schools

## Abbrev. Major

### COLLEGE OF APPLIED SCIENCE AND TECHNOLOGY

AHSC	Applied Human Sciences
CSCI	Computer and Information Sciences
ENTC	Engineering Technology
GEOG	Geography
PENG	Pre-Engineering
SUVM	Surveying and Mapping Science

### COLLEGE OF ARTS AND SCIENCES

ARTA	Art
BIOL	Biology
CHEM	Chemistry
CJCR	Criminal Justice/Criminology
ENGL	English
LANG	French
LANG	German
HIST	History
MCOM	Mass Communications
MATH	Mathematics
MUSC	Music
PHIL	Philosophy
PHYS	Physics
PSCI	Political Science
PSYC	Psychology
SOCI	Sociology
SOWK	Social Work
LANG	Spanish
SPCH	Speech

### COLLEGE OF BUSINESS

**All B.B.A. (Bachelor of Business Administration) majors initially listed as Pre-Business**

PBUS	Accounting
PBUS	Economics
PBUS	Finance
PBUS	Management
PBUS	Marketing
PBUS	Pre-Business (Undecided, Business)
ECOA	Economics-Bachelor of Arts Degree

### SCHOOL OF CONTINUING STUDIES

BGSD	General Studies
BASD	Applied Science
BSIS	Interdisciplinary Studies (Regents' Degree Online)
BSPS	Professional Studies (Regents' Degree Online)

East Tennessee State University makes available to prospective students the ETSU Security Information Report. This annual report includes campus crime statistics for the three 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 the Department of Public Safety, Box 70646, ETSU, Johnson City, TN 37614. The report can be accessed on the Internet at: [http://www.etsu.edu/dpslsecurity\\_report.htm](http://www.etsu.edu/dpslsecurity_report.htm).

Pursuant to The Student Right to Know and Campus Security Act, Public Law 101-542, as amended, graduation rates at East Tennessee State University range from 34% to 75%, depending on the method of calculation and the programs being analyzed.

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. TBR 120-008-01 15M

## Abbrev. Major

### COLLEGE OF EDUCATION

**Some Education Majors Initially Listed as Pre-Education (PRED)**

PRED	Interdisciplinary Studies (Elementary Education)
PEDU	Physical Education
PRED	Special Education
PRED	Early Childhood Development
HDLC	Human Development and Learning - Career
HDLT	Human Development and Learning - Teaching

### PRE-PROFESSIONAL

PDEN	Pre-Dental
PMED	Pre-Medicine
POPT	Pre-Optometry
PPHY	Pre-Pharmacy
PROT	Pre-Occupational Therapy
PRPT	Pre-Physical Therapy
PVET	Pre-Veterinary Medicine

### COLLEGE OF PUBLIC AND ALLIED HEALTH

*DHYG	Dental Hygiene (2-year)
*BSDH	Dental Hygiene (Please specify on-campus or online)
ENVH	Environmental Health
PHBS	Public Health
HSCI	Medical Technology
HSCI	Microbiology

### Nave Center, Elizabethton, TN

*BSAH	Radiography
*BSAH	Cardiopulmonary Science

### COLLEGE OF NURSING

**All Nursing Majors Initially Listed as Pre-Nursing**

*PBSN	Pre-Baccalaureate Degree Nursing
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### MAJOR UNDECIDED

UDEC	Undecided
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\*Limited admission program - additional departmental admission process.