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**Summer Term 2007**

**Complete Session, May 14 - Aug. 10**

*May 7 - 11 ........................ Registration*

*May 14 ................................ Classes Begin*

*May 16 ................................ Last day to register or Late add a Pre-Summer course*

*May 17 ................................ Last day to drop a course without a grade of “W”*

*May 24 ........................... Last day to drop a course*

*May 28 ................................ Memorial Day Holiday*

*May 30 ................................ Last Day to withdraw*

*June 1 .............................. Last day of classes*

**Dual Session, June 4 - Aug. 10**

**Session 1, June 4 - July 6**

*May 30 - June 1 ........................ Registration*

*June 4 ................................ Classes begin*

*June 10 .............................. Last day to register or Late add a course (Session 1)*

*June 17 .............................. Last day to register or Late add a course (Dual Session)*

*June 11 .............................. Last day to drop a course with grade of “W” (Session 1)*

*June 20 .............................. Last day to drop a course with grade of “W” (Dual Session)*

*June 22 .............................. Last day to drop a course (Session 1)*

*July 4 ............................... Independence Day Holiday*

*July 5 ............................... Last day to withdraw (Session 1)*

*July 6 .............................. Last day of classes (Session 1)*

**Session 2, July 9 - Aug. 10**

*July 5 - 6 .............................. Registration*

*July 9 ............................... Classes begin*

*July 15 .............................. Last day to late register or Late add a course (Session 2)*

*July 17 .............................. Last day to drop a course with grade of “W” (Session 2)*

*July 27 .............................. Last day to drop a course (Session 2)*

*Aug. 8 ............................... Last day to withdraw Session 2 and Dual Session*

*Aug. 10 ............................. Last day of classes*

*See “Schedule of Classes” for complete registration dates.*

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**Directory Information**

- **General Inquiries/Campus Operator**: 439-1000
- **Admissions**: 439-4213
- **Admissions (Toll Free)**: 1-800-462-3878
- **Registration and Records**: 439-4230

**Colleges and Schools**

- **Arts and Sciences**: 439-5671
- **Business and Technology**: 439-5275
- **Continuing Studies**: 439-8300
- **Education**: 439-7626
- **Graduate Studies**: 439-4221
- **Medicine**: 439-6315
- **Nursing**: 439-7186
- **Pharmacy**: 439-2068
- **Public and Allied Health**: 439-4243

**Centers**

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

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**Academic Calendar 2006-2007**

**Fall Term 2006**

- **June 14** ......................... Application deadline for December graduation
- **July 16** ............................ Admission application deadline for priority processing

*Aug. 21-25 .............................. Registration*

*Aug 28 ................................. First day of classes*

*Sept. 1 ............................... Last day to late register or late add a course*

*Sept. 4 ............................... Labor Day Holiday*

*Sept. 14 .............................. Application deadline for May graduation*

*Sept. 8 ............................... Last day to drop without a grade of “W”*

*Oct. 16-17 ............................ Fall Break*

*Nov. 23-24 ............................ Thanksgiving Holidays*

*Dec. 6 ................................. Last day to withdraw from the university*

*Dec. 8 ................................. Last day of classes*

*Dec. 9-14 ............................. Final Examinations*

*Dec. 16 ............................... Commencement*

---

**Spring Term 2007**

- **March 5-10 .......................... Spring Break**
- **March 13 ............................ Last day to drop a course**
- **April 6 .............................. Good Friday Holiday**
- **April 25 ............................ Last day to withdraw from the university**
- **April 27 ............................ Last day of classes**
- **April 28 - May 3 ........................ Final Examinations**
- **May 5 ............................... Commencement**

---

**Session 2, July 9 - Aug. 10**

- **July 5 - 6 .............................. Registration**
- **July 9 ............................... Classes begin**
- **July 15 .............................. Last day to late register or Late add a course (Session 2)**
- **July 17 .............................. Last day to drop a course with grade of “W” (Session 2)**
- **July 27 .............................. Last day to drop a course (Session 2)**
- **Aug. 8 ............................... Last day to withdraw Session 2 and Dual Session**
- **Aug. 10 ............................. Last day of classes**

*See “Schedule of Classes” for complete registration dates.*
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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

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

Please Note:

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

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

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

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

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

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

Student Conduct, Rights, and Responsibilities

University students are citizens of the state, local, and national governments and of the academic community, and are, therefore, expected to conduct themselves as law-abiding members of each community at all times. Admission to an institution of higher education carries with it special privileges and imposes special responsibilities apart from those rights and duties enjoyed by nonstudents. In recognition of the special relationship that exists between the 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.asp.
**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. Students who wish to appeal a specific administrative decision should contact the appropriate department and request an appeal form.

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

Student concerns or complaints pertaining to the offices of Admissions, Financial Aid, or the Registrar should be directed to the Vice Provost, P.O. Box 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 Equal Employment Opportunity/Affirmative Action Director and Special Assistant to the President for Cultural Diversity, 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

East Tennessee State University strives to create a community of learning that actively advances the fundamental values of higher education - the free interchange of ideas, curiosity and the desire for learning, critical thinking and self-reflection, ethical behavior, academic freedom, and appreciation of human diversity. Every academic program and support unit at ETSU contributes to the creation of this community. The university places primary emphasis on student learning through effective and innovative teaching by faculty, working in partnership with administration and staff. It seeks to promote students’ intellectual and social development by providing academic programs and co-curricular opportunities that meet high standards of quality.

ETSU embraces its regional setting and proudly reflects its traditional roots and Appalachian heritage. The university is committed to expanding student access and actively recruits well qualified undergraduate and graduate students from throughout Tennessee, especially from Northeast Tennessee and adjacent states. In addition, it supports selected programs that attract students from across the nation as well as from other countries. The university makes educational opportunities available to all eligible people without regard to age, gender, color, race, religion, national origin, disability, veteran status, or sexual orientation.

The university pursues community partnerships that will both enhance its institutional effectiveness and serve the region. It places special emphasis on community-based and interdisciplinary learning. ETSU is a leader in improving the intellectual, cultural, economic, political, social, and health environment of Northeast Tennessee and the Southern Appalachian region. The university demonstrates special commitment to enhancing P-16 education, workforce development, civic responsibility, uses of technology, and providing distinctive educational service and research appropriate to its mission.

ETSU offers programs through eight colleges and schools related to five areas: arts and sciences, business, education, health sciences, and technology. It affirms the value of liberal education for all undergraduate students and offers programs of study leading to expertise in the arts and sciences and selected professional fields. The university places a distinctive emphasis on improving student competence in writing, oral communication, and using information technology. It strives to address the needs of gifted students seeking greater educational challenges and nontraditional students returning to the classroom. ETSU is committed to providing a rich campus life, offering a variety of residential opportunities and student activities, and supporting excellent intercollegiate and intramural athletic programs.

The university is recognized for its unique focus on the health sciences. ETSU’s Division of Health Sciences, composed of the colleges of Medicine, Nursing, Pharmacy, and Public and Allied Health, seeks to support the health and wellness of the people of Southern Appalachia, with special emphasis on meeting the needs of rural populations. The university is committed to providing programs that achieve distinctive levels of regional and national recognition, to providing a variety of delivery systems (including online) to enhance access, and to becoming increasingly comprehensive in its focus on health sciences through expanding its inventory of undergraduate and graduate programming.

ETSU offers graduate programs to meet the needs of its student population and extensive service region. These programs award master’s degrees in most liberal arts disciplines and technical and professional fields. The university awards doctoral degrees in education and in selected disciplines that reflect its health sciences mission.

The university is committed to improving the availability and quality of programming for individuals seeking educational opportunities beyond the Johnson City campus and via the Internet. ETSU also seeks to use emerging technologies to enhance the quality of instruction it provides to all of its students.

As a doctoral research-intensive university, ETSU is committed to teaching based in scholarship and to advancing programs of research and creative activity that improve the quality of life in the region, the state, the nation, and the world. The university seeks to provide an environment in which faculty, students, and staff are encouraged to inquire and to produce and disseminate the highest quality scholarly and creative work. To sustain and enhance this environment, ETSU seeks to secure financial support for research and creative programs through partnerships with broader communities, through effective management and through aggressive pursuit of extramural support and creative entrepreneurial initiatives.

East Tennessee State University strives to achieve optimal efficiency in its use of resources while always seeking to offer instructional, research, and public service programs of the highest quality. The university recognizes that employees are its most valuable resource and students its most important constituents. Putting people first is the foremost value guiding ETSU’s operations. (revised 10/27/04)
ETSU Values

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

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

ETSU Strategic Goals for the 2005-2010 Planning Cycle

1. Demonstrate leadership for our region by
   - promoting and enhancing P-16 education,
   - enhancing workforce development for the health professions,
   - establishing successful technology-based start-up and spin-off companies through the ETSU Innovation Laboratory,
   - enhancing students’ active development of civic responsibility,
   - pursuing the use of advanced technologies, and
   - expanding externally-funded research.

2. Enhancing the rate and diversity of participation in higher education by
   - increasing the rate of participation of targeted student populations, and
   - designing and implementing a multi-variant review model for consonance between student and/or employer demand.

3. Demonstrate quality of programs and services by
   - implementing campus-wide quality institutional effectiveness initiatives,
   - providing general education, academic programs and co-curricular opportunities that meet high standards of quality,
   - enhancing civic responsibility and student engagement,
   - recruiting, retaining, and developing faculty and staff diversity,
   - increasing student retention and persistence to graduation, and
   - continued implementation of our SACS Quality Enhancement Plan for student success.

4. Demonstrate successful management of resources by expanding use of nationally recognized databases or benchmarking tools to inform resource management,
   - increasing awareness and commitment to philanthropic fund-raising projects,
   - promoting entrepreneurial and partnership initiatives to attain additional resources, and
   - striving to achieve optimal efficiency in its use of resources.
## Undergraduate Admission

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

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

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

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

### Requirements for Admission

#### Freshman Admission

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

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

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

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

Applications for admission must be approved by the last day of registration (official census date) of a semester in order to be effective with that semester.

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

### Required High School Courses

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

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

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.

### Freshman Applicants Age 21 or Older

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

### Admission with the GED-High School Equivalency Diploma

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

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

**Academic Placement (COMPASS Examination)**

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

**Early Enrollment Plans**

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

1. **Enrollment After the Junior Year in High School:** A select group of students who distinguish themselves by high academic achievement in the 9th, 10th, and 11th grades may qualify for admission to the freshman class after the junior year in high school. Minimum selection criteria include a high school grade point average of 3.5 on a 4.0 scale and an ACT composite score of 25 (or equivalent SAT). Successful completion of the prescribed freshman courses at the university satisfies high school graduation requirements.

2. **Enrollment During the Junior or Senior Year in High School:** Currently enrolled high school students who have completed their sophomore year in high school may be admitted for either joint enrollment or dual enrollment or both in order to complete university courses. Minimum academic requirements include a 3.2 high school grade point average on a 4.0 scale and a minimum ACT composite of 23 with no subscore below 19. Students may register for no more than seven (7) semester hours per semester when enrolled in this program.

3. **Academically Talented/Gifted High School Students:** Currently enrolled students in grades 9-12 in public or private high schools who have been identified as academically talented/gifted and whose program of studies is planned on an individual basis by a multidisciplinary team may, with endorsement by the high school and the university, enroll for prescribed courses and earn university credit. Minimum criteria include a high school grade point average of 3.2 on a 4.0 scale. Students may register for no more than seven (7) semester hours per semester when enrolled in this program. Inquiries about plans for early enrollment should be directed to the Office of Admissions.

**Former Students — Readmission**

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

**Transfer Student Admission**

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

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

<table>
<thead>
<tr>
<th>Postsecondary Transfer Credit</th>
<th>Admission Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 or more transferable semester hours of credit earned</td>
<td>Minimum overall GPA on transferable hours</td>
</tr>
<tr>
<td>Attempted Hours GPA</td>
<td></td>
</tr>
<tr>
<td>12.0 - 29.0</td>
<td>1.4</td>
</tr>
<tr>
<td>29.0 - 45.0</td>
<td>1.7</td>
</tr>
<tr>
<td>45.1 - 59.9</td>
<td>1.9</td>
</tr>
<tr>
<td>60+</td>
<td>2.0</td>
</tr>
</tbody>
</table>

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

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

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

**Transfer Student Application Procedure**

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

1. Fully complete the application form (all sections should be completed including dates where specified). Forms should be submitted to the Office of Admissions by August 15th for Fall Semester and by December 15th for Spring Semester.
2. Provide the appropriate application fee at the time of application.
3. Applicants who completed high school graduation requirements or the GED in 1989 and thereafter must provide to the Admissions Office an official high school transcript* and GED scores if applicable. High school records are not generally required for those graduating prior to 1989 or for those with an associate degree designed for transfer or 60 or more transferable semester hours. Such documentation must be provided by August 15th for Fall Semester and by December 15th for Spring Semester.
4. Provide official transcripts* from all previously attended colleges and universities to the Office of Admissions by August 15th for Fall Semester and by December 15th for Spring Semester.

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

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

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

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

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

Credit for Service in the Armed Forces

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

- Army - Army/American Council on Education Registry Transcript (AARTS)
- Navy/Marine - Sailors-Marine Corps American Council on Education Registry Transcript (SMART)
- Air Force - Community College of the Air Force Transcript
- Coast Guard - Coast Guard Institute Education Transcript

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

Advanced Placement Credit

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

ACT/SAT Credit for Freshman English

1. Entering freshmen whose standard score on the English section of the ACT is 28 or better may request 3 hours credit for ENGL 1010 and may then enroll in ENGL 1020.
2. Entering freshmen whose standard score on the Verbal section of the SAT is 700 or better may request 3 hours credit for ENGL 1010 and may then enroll in ENGL 1020.

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

International Baccalaureate Program

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

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

College Level Examination Program (CLEP)

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

Departmental Course Challenge Exams

Comprehensive departmental course challenge exams are available in most undergraduate courses. Students enrolled in ETSU who believe they have sufficient mastery of subject matter in specific ETSU courses may request to attempt a comprehensive examination through the chair of the department offering the course. Grades of A, B, C, D, or F or grades of ‘P’ for passed hours and ‘P’ for failed hours may be assigned for satisfactory examination performance as determined by the appropriate academic department. A fee of $15.00 per credit hour sought will be charged. The administration of the examination is at the discretion of the academic department. Information regarding comprehensive departmental examinations is available from the Office of the Registrar.

Excelsior College Examination

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

National League for Nursing (NLN)

Mobility Profile II Testing

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

University Credit for Experiential Learning

(Bachelor of General Studies [B.G.S.], Bachelor of Professional Studies [B.S.P.S.], Bachelor of Applied Science [B.A.S.], or Bachelor of Interdisciplinary Studies [B.I.S.S.] )

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

Credit from Non-Regionally Accredited Collegiate Institutions

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

Additional Transfer Information

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

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

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

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

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

Transfer students with less than 60 semester hours of credit who have not earned college-level math or English credit must undergo COMPASS assessment in the appropriate area(s). For transfer students with less than 12 semester hours of credit, assessment in reading will also be required.

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

Second Undergraduate Degree Students

Students who hold a bachelor’s degree from ETSU or any other regionally accredited college or university may apply to earn a second bachelor’s degree. Applications should be filed in the Office of Admissions. Students pursuing a second bachelor’s degree must apply, select a major program, and provide official transcripts by August 15th for Fall Semester and by December 15th for Spring Semester. Additional information on second bachelor degrees is available in the catalog section entitled Degree and Graduation Requirements.

Undergraduate Special Student Admission

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

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

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

Visiting Student Admission

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

Milligan College/Emmanuel/ETSU Agreement

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

Students Denied Admission

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

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

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

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

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

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

Exchange Programs

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

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

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

Special Requirements

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

Enrollment of Disabled Persons and Persons Over 60 Years of Age

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

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

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

Academic Fresh Start

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

Eligibility

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

Application Procedure

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

Policy Provisions

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

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

Other Admission Categories

Contact the Office of Admissions for any special requirement.

Academic Common Market

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

To enroll as an Academic Common Market student:

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

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

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

Approved Programs in Undergraduate Studies

**State**

**Bachelor of Science in Surveying and Mapping** .................................. Alabama

**Bachelor of Science in Dental Hygiene (on-site and online)**

**Bachelor of Science in Digital Media** .................................................... Arkansas

**Bachelor of Science in Dental Hygiene (online only)** ............................ Delaware

**Bachelor of Science in Dental Hygiene (online only)** ............................ Kentucky

**Bachelor of Science in Digital Media**

**Bachelor of Science in Surveying and Mapping**

**Bachelor of Science in Professional Studies (RODP)** .......................... Louisiana (Information Technology and Organization Leadership)

**Bachelor of Science in Mass Communication** ..................................... Maryland (Broadcasting option only)

**Bachelor of Science in Surveying and Mapping** ................................. Mississippi

**Bachelor of Science in Digital Media**

**Bachelor of Science in Environmental Health** ................................. South Carolina

**Bachelor of Science in Surveying and Mapping**

**Bachelor of Science in Family and Consumer Sciences**

(Apparel Merchandising option only)

**Bachelor of Science in Digital Media**

**Bachelor of Science in Allied Health**

(Cardiopulmonary Science, Allied Health Leadership, and Radiography)

**Bachelor of Science in Surveying and Mapping** ................................. Virginia

**Bachelor of Science in Engineering Technology**

(Manufacturing, Construction, and Biomedical options only)

**Bachelor of Science in Environmental Health**

**Bachelor of Science in Public Health**

**Bachelor of Science in Allied Health**

(Cardiopulmonary Science Only)

**Bachelor of Science in Digital Media**

**Bachelor of Science in Engineering Technology** ............................... West Virginia (Construction Option Only)

**Bachelor of Science in Surveying and Mapping**

**Bachelor of Science in Digital Media**

**Approved Programs in Graduate Studies**

**State**

**Master of Science in Engineering Technology** ................................. Virginia

(Kentucky)

**Master of Science in Environmental Health**

**Master of Arts in Reading** ................................................................. Alabama

(Virginia)

**Master of Arts in Reading (Storytelling Option)** ................................. Alabama

**Master of City Management** ............................................................. Delaware

**Master of Public Management**

**Master of Science in Clinical Nutrition** ........................................ South Carolina

**Doctorate of Audiology** ....................................................................... Georgia

**Master of Science in Technology** ...................................................... North Carolina (Geoscience Option)

Registration and Orientation

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

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

Student ID Card

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

Expenses

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

Tuition and Fees

**Academic Year 2006 - 2007**

(Subject to change)

Application Fee

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

Undergraduate Registration Fee

One hundred, sixty-eight dollars ($168) per semester hour, not to exceed ($1,914) per semester (except during summer term. See summer schedule of classes).

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

Graduate Registration Fee

Two hundred, seventy-two dollars ($272) per semester hour, not to exceed ($2,569) per semester (except during summer term. See summer schedule of classes).

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

Four hundred, twenty-one dollars ($421) per semester hour, not to exceed $4,847 per semester. Tuition, is in addition to the above registration fee. (Except during summer term. See summer schedule of Classes.)

Auditing Fees

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

Pre-Summer

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

Fees for Summer Term

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

General Expenses

Board

University Cafeteria

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

Books

First-semester freshman

(estimate per semester) ........................................ $300 - $450

Other, if used books are exchanged

(estimate per semester) ........................................ $300

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

Materials Fees

Astronomy Materials Fee ........................................ $20

Biology Materials Fee ........................................ $20

Chemistry Materials Fee ...................................... $18

Geology Materials Fee ........................................ $20

Physics Materials Fee .......................................... $20

Course Fees

Business Course Fee .......................................... $20 per credit hour

Computer Sciences Fee ...................................... $12

Dental Hygiene Course Fee ................................ $13

Digital Media Course Fee .................................. $100 per credit hour

Departmental Course Exam Fee ......................... $15 per credit hour

Online Distance Education Fee .......................... 7% of course tuition

Physical Education Assessment Fee .................. $30

Physical Therapy Course Fee .............................. $83

(Anatomy course only)

Radio and Television Course Fee ...................... $7 - $41

Additional Fees

Debt Service Fee .............................................. $8 per credit hour

Debt Service Fee — Maximum .......................... $90

Student Activity Fee—All students registered for credit

(Fall & Spring, Only) ........................................ $20

General Access Fee — Per Hour ......................... $42 per credit hour

(nonrefundable)

General Access Fee — Maximum ....................... $294.50

(nonrefundable)

Music Fee (Individual Instruction) ...................... $150 per half hour lesson

Miscellaneous

Late Registration ................................................ $100

Post Office Box Rental (per semester) ............... $10

Transcripts ...................................................... NO CHARGE

Replacement Diploma ....................................... $10

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

Housing

(Subject to change)

Undergraduate Residence Halls/Efficiency Apartments

Deposit ........................................................................................................ $100

Rent

Double Occupancy ............................................. $1,213 - $2,212 per semester

Single Occupancy ............................................... $2,426 - $3,425 per semester

Buccaneer Village (Married and Graduate Housing)

Deposit ........................................................................................................ $150

Rent

Efficiency .......................................................... $1,461 per semester

One-Bedroom ...................................................... $1,583 per semester

Two-Bedroom ...................................................... $1,777 per semester

(Includes water, telephone, data access and cable TV; electricity extra.)

Buccaneer Ridge Apartments

Deposit ................................................................. $150

Two- and Four-Bedroom Apartments

(per person, per semester) ........................................ $2,310 - $2,404

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

Fees and Deposits

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

Returned Checks

Acknowledged bank errors excepted, students will be charged $20 for each check (regardless of amount) that is returned unpaid by their bank. See Regulations Governing Fee Payment below.

Fee Payment

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

Confirmation of Fee Payment

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

Fee Payment for Financial Aid Recipients

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

Regulations Governing Fee Payment

The university operates on the semester system and a cash basis. Students are required to pay all university fees when registering at the beginning of each semester.
The student ID card is used for admission and identification for athletic contests, social functions, and other activities during the semester for which the student is enrolled.

The engagement of a room in the dormitory is for the full year, payable on a semester basis. However, if a student enters the residence hall after the semester begins, the charges are prorated for the remainder of the semester. Dormitory rent may be paid on deferred payment plan if the student does not have sufficient grant, scholarship, or loan funds to pay all registration fees, including dormitory rent, at the beginning of the semester. There is a charge for this service.

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

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

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

Refund Policies

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

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

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

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

Situations Which May Permit a Refund

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

Refund Procedures

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

- Seventy-five percent of fees will be refunded for drops or withdrawals within 14 calendar days beginning with and including the first official day of classes or within a pro-rated 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%) of the term 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 term and prior to the beginning of summer term. One hundred percent of fees will be refunded in case of a student's death.

Return of Title IV Federal Student Aid

This requirement applies to you ONLY if:

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

The federal law requires federal aid recipients to “earn” the aid they receive by staying enrolled in college at least half time. Students who withdraw prior to completing 60 percent of the semester for which they received federal student aid may be required to return some or all of the aid they were awarded.

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

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

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

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

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

Distribution Order of Refunds

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

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

Other refunds will be credited to
1. State, private, or institutional aid
2. The student

Refund Appeals Procedures

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

Deferred Payment Plan

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

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

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

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

Dropping a course or withdrawing from the university will not remove
charges. Students who drop or withdraw are required to complete the
defered 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 prorata 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.
Advisement at ETSU is defined as a “continuous interactive process between an advisor and student which facilitates the development and achievement of the student's overall goals.”

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

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

All students who entered ETSU with less than 60 credits are required to meet with an advisor prior to registration. First-term-at-ETSU transfer students are required to meet with an advisor prior to registration for the first and second term of enrollment.

### 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 to 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 check sheets).

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).
The Office of Financial Aid at East Tennessee State University provides a broad spectrum of programs to assist students in financing their college education. The university is committed to providing access to students through a variety of resources that includes scholarships, grants, loans and work-study programs.

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

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

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

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

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

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

In an effort to adhere to federal privacy laws, the ETSU Office of Financial Aid restricts the release of certain private student information. Students must contact the Office of Financial Aid personally to check on the status of their financial aid application and awards. Often, we will be unable to release information to third parties (i.e., parents, spouses, etc.) without a signed release form on file from the student. To obtain a Release of Information Form, the student must visit our office in person and present a photo ID. This form must be renewed each academic year.

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

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

**Introduction**

**FINANCIAL AID AND SCHOLARSHIPS**

**Student Eligibility**

To be eligible for federal financial aid programs - the Federal Pell Grant Program, the Federal Supplemental Educational Opportunity Grant (FSEOG), the Federal Perkins Loan, the Federal Work Study Program (FWS), and the Federal Family Educational Loan Programs that include the Federal Stafford and Federal Parent Loan for Undergraduate Students (FPLUS) - the students must meet the following criteria:

1. Be accepted for admission;
2. Be enrolled as a regular student, attending classes in a degree or certificate program;
3. Be a U.S. citizen or eligible non-citizen;
4. Meet the financial aid Satisfactory Academic Progress Policy;
5. Be registered with the Selective Service, if you are a male;
6. Not be in default on a student loan or owe a repayment of Title IV federal financial aid funds. (A repayment occurs if the student receives funds for living expenses and then withdraws within the first 60% of the term (officially or unofficially) from the university.)

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

**Financial Aid Satisfactory Academic Progress Policy**

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

I. **Progress Standards**

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

<table>
<thead>
<tr>
<th>Attempted credit hours</th>
<th>Fall/Spring enrollment of</th>
<th>The student must complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 or more credit hours</td>
<td>21 credit hours</td>
<td>satisfactorily, between fall/spring enrollment of:</td>
</tr>
<tr>
<td>18 - 23 credit hours</td>
<td>15 credit hours</td>
<td>fall/spring, a total of:</td>
</tr>
<tr>
<td>12 - 17 credit hours</td>
<td>9 credit hours</td>
<td></td>
</tr>
<tr>
<td>6 - 11 credit hours</td>
<td>6 credit hours</td>
<td></td>
</tr>
<tr>
<td>Less than 6 credit hours</td>
<td>Complete all credit hours attempted</td>
<td></td>
</tr>
</tbody>
</table>

*For purposes of financial aid, satisfactory grades are A, A-, B+, B, B-, C+, C, C-, D+, D, S, SP or P. Unsatisfactory grades are F, W, WF, U or I. Audits do not count as attempted hours and are not eligible for financial aid.*

**NOTE**: Unsatisfactory grades will not be counted as earned credit hours, but will count as attempted credit hours.

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

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

A. Academic progress is reviewed at the end of each term and students who did not make satisfactory academic progress will be notified in writing.

B. Students who receive all “F”, “P”, “W”, “WF”, or “U” grades in courses attempted in any term (fall, spring, summer) will become ineligible for financial aid. (See regain eligibility.)

C. Repeat courses will be counted in earned credit hours.
   (Note: ALL courses attempted count in total credit hours attempted.)

D. Transfer courses recognized by ETSU will be counted in attempted and earned credit hours.

E. All distance education, telecommunication, television, and web-based courses are considered in total attempted hours.

F. Academic Fresh Start students will have their satisfactory academic progress evaluated on work attempted after returning to the university under the Academic Fresh Start policy. However, the maximum eligibility requirement (150%) still applies.

G. Second-degree students will have their satisfactory academic progress calculated from the credit hours attempted beyond the first degree. (Note: Additional credit hours for the second degree coursework will be limited to the credit hours required to complete the second degree.) A second-degree student is defined as a student with a previous degree at the same classification, either undergraduate or graduate. For example, a student pursues a bachelor’s degree in a new field after earning a previous bachelor’s degree.

H. Students classified as “Undergraduate Special” (SPU) may be eligible for federal financial aid; check with your Financial Aid Counselor.

I. Students classified as “Graduate Non-Degree” (SPG) are eligible for federal financial aid for a maximum of one year if they are enrolled in classes that are:
   1. Required for a teacher certification program (the loan limit is that of a fifth-year undergraduate);
   
   or
   
   2. Necessary as prerequisite courses for enrollment into a graduate program (the loan limit is that of a fifth-year undergraduate).

J. Students may receive aid for no more than 30 attempted credit hours of remedial coursework. English as a Second Language (ESL) classes are included in the 30 hours.

III. Regaining Financial Aid Eligibility

A. Satisfactory Progress Appeal:
   Students who fail to meet these standards and lose eligibility for financial aid can appeal that decision to the Office of Financial Aid within two weeks of notification. The appeal must be prepared in writing on the Satisfactory Academic Progress Appeal Form, and must be accompanied by appropriate supporting documents.

   Reasons that may be acceptable for the appeal are:
   1. Serious illness or accident on the part of the student.
   2. Death, accident, or serious illness in the immediate family.
   3. Class cancelled by ETSU.
   4. Other acceptable extenuating circumstances.

B. Making Up Deficient Credit Hours Without Aid: In the event that the student does not qualify for an appeal, he/she may be eligible to have financial aid reinstated by taking the following actions:
   1. Earn at ETSU the number of deficient credit hours (see chart for credit hour requirements) in which aid was received.
   2. Pay for these hours without financial aid.
   3. Maintain a minimum 2.0 GPA for the semester average for those credit hours.
   4. Notify the Office of Financial Aid when the deficient hours have been earned.

IV. Appeal Limits

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

Under extreme circumstances, a third appeal may be granted, provided that the student has documented proof of the circumstances. In the case of a student who files a third appeal, the reasons for the student’s two previous appeals will be reviewed and considered when making a decision. Additionally, the student’s progress within the academic program will be a determining factor in third appeals.

Federal Financial Aid Application Procedures

These steps streamline the financial aid application process for students.

1. Apply for a personal identification number (PIN) at www.pin.ed.gov for yourself and your parents, if you are dependent and you do not already have one.

2. Every year, complete the Free Application for Federal Student Aid (FAFSA) as soon as possible after January 1 using accurate tax information from the previous year. Students are encouraged to complete the FAFSA electronically at the following web site: www.fafsa.ed.gov. List the ETSU school code, 003487, on the FAFSA for ETSU to receive the data electronically.

3. ETSU will review the student’s financial aid record electronically with the National Student Loan Data System (NSLDS). If the student has attended another institution and discrepancies are found, the student must resolve the discrepancy with that institution.

4. The Federal Processor sends the Student Aid Report (SAR) to the student in response to completing the FAFSA. ETSU will receive the SAR data electronically when the student lists ETSU on the FAFSA. If ETSU was not listed on the FAFSA, the student should go to www.fafsa.ed.gov and add the ETSU school code, 003487. The student is encouraged to review the SAR for accuracy. If corrections are required, ask the Office of Financial Aid for assistance. If the student is selected for verification, the student should contact the ETSU Office of Financial Aid for further instruction or assistance. The university may also request other information.

5. When the financial aid award letter is received, the student should review the letter, sign, and return it to the Office of Financial Aid by the due date.

6. If you accept the Stafford Loan, complete the Stafford Lender Selection Form and return it with the financial aid award letter. If you are a first-time borrower, complete the Master Promissory Note (MPN) with your lender. Complete Stafford entrance loan counseling online at www.mapping-your-future.org for ETSU regardless if completed at another institution. If you accept Perkins Loan, complete the Master Promissory Note with the Office of the Bursar and complete entrance loan counseling for Perkins at www.mapping-your-future.org regardless if completed at another institution.

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

Important Dates

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

January 1  Complete the Free Application for Federal Student Aid (FAFSA) as soon as possible using accurate tax information.

February 15  Priority date for Tennessee residents to apply for the Tennessee Education Lottery Scholarship (TELS) and/or the Tennessee Student Assistance Award (TSAA) using the FAFSA form.

March 1  Deadline to apply for ETSU scholarships unless stated otherwise in the Financial Aid and Scholarship Brochure.

April 15  Priority date for student financial aid files to be complete to have financial aid available at the beginning of the fall term. Students applying after July 1 should not anticipate having aid available at the beginning of the fall term.

May 1  Deadline to have FAFSA processed to be considered for TELs and TSAA.

May 15  Deadline for new transfer students to apply for APS.

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

DEADLINES to have FAFSA processed to be considered for TELs:

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

Federal Student Financial Aid Programs

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

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

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

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

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

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

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

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

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

Tennessee Student Assistance Corporation Programs

The Tennessee Student Assistance Corporation (TSAC) has a variety of programs available to assist students in meeting the cost of education.

Additional information can be found at the following web site: 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 priority 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 Student Employment

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

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

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

University Loans

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

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

The George Washington Bradley Memorial Loan Fund - Established to honor the memory of Dr. Bradley, former Assistant Professor of Education and Psychology, ETSU. Available funds may be loaned to worthy graduate students majoring in education counseling or guidance who demonstrate financial need and are making satisfactory progress in school. The repayment may be deferred until after graduation, with interest at the rate of 6 percent per annum beginning at that time. Apply to the Office of Financial Aid.
The East Tennessee State University Loan Fund - A short-term loan fund administered by ETSU for those students having temporary needs to meet their educational expenses for tuition/fees. There is a processing charge, and repayment is due at least two weeks prior to the end of the semester in which the loan is made. A short-term loan application is required. An original gift of $1,000 from business and professional men of Johnson City established the loan fund. It has been augmented with gifts from other sources which include: gift from Mrs. Elizabeth Allison in memory of her husband, Mr. M.H. Allison; the American Legion Auxiliary, Kings Mountain Unit No. 24, in memory of Mrs. Ferne Fisher Miller; the Business and Professional Women's District Loan Fund; the Lt. (j.g) William C. Dunn Memorial Loan Scholarship Fund; the Ada Hornshy 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 Fund, established by the Weitzel-McBride Chapter, the Gen. Nathaniel Taylor Chapter, and the Watauga Chapter; and the YMCA Student Loan Fund. Apply to the Office of Financial Aid.

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

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

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

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

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

Scholarships
Many scholarship programs are available to assist students in various fields of study. Scholarships are intended to assist students in funding the direct costs of their higher education. Full scholarship support at East Tennessee State University is defined as those scholarships, or combinations of scholarships, that provide current costs, including tuition, fees, standard dormitory housing and meal plans, and in some instances, an additional stipend towards books and other fees. In keeping with the intent of scholarship support, East Tennessee State University reserves the right to limit internally funded scholarships to an amount that does not exceed these direct costs. Scholarships or loan amounts received from sources other than East Tennessee State University shall not be limited nor included in assessment of the funds granted for full scholarship support.

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

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

Scholarship Deadlines:
Academic Performance Scholarships for New Freshmen .... February 15
Academic Performance Scholarships for New Transfers........ May 15
General University Scholarships ------------------------------- March 1

Applications must be received in the Scholarship Office by the deadline date. Late applications will not be considered. Other ETSU scholarships (e.g., University Honors, College and Departmental Scholarships) may have different deadlines and may require a special application. Please read the scholarship descriptions carefully or contact the appropriate office.
Serving in leadership positions on campus and in the community is a necessary part of the educational experience at ETSU. Leadership education is offered to students through credit courses, workshops (Breakfast Club, Leadership Forum), living-learning community in Buc-Ridge Apartments (Leadership House) as well as involvement in 175+ student organizations on campus. Contact the Student Organization Resource Center, phone 423/439-6633 for more information.

**Sororities-Fraternities**

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

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

**Academic Clubs**

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

**Honor Societies**

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

**Campus Ministry Opportunities**

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

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

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

Community Service
Alpha Phi Omega
Campus Girl Scouts of ETSU
Rotaract
Volunteer ETSU

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

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

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

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

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

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

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

• Placement Service — Placement services are provided as part of the Office of Career Placement and Internship Services. The office processes inquiries from business, industry, school systems, hospitals, and government and social agencies. It also assembles employment materials, checks recommendations, arranges for interviews, distributes credentials, and provides other support service to complete the employment process. The Office of Career Placement and Internship Services is located in room 323 of the D.P. Culp University Center, phone (423) 439-4441.

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

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

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

ETSU at Bristol is located at 1227 Volunteer Parkway, Bristol, Tenn. The site offers a variety of undergraduate and graduate classes leading toward selected majors with day, evening, and weekend schedules. The telephone number is (423) 844-6300.

The Department of Allied Health Sciences, located at the Nave Center in Elizabethton, is a multidisciplinary department offering courses of study leading to a certificate in Dental Assisting. The Bachelor of Science degree is available in Allied Health with concentrations in Cardiopulmonary Science and Radiography. The telephone number is (423) 547-4900.
- **Research Development Committee** — The ETSU operating budget provides funds for assistance to faculty and staff members for individual research projects. These funds are administered by the Research Development Committee which evaluates applications for research grants, summer stipends, and grants-in-aid.

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

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

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

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

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

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

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

  **COMPASS Testing** — To schedule to take the COMPASS test, contact the University Testing Center at (423) 439-7842 or register online at http://www.etsu.edu/academicaffairs/testingcenter/webtestingcenter/ (Click on Register and then Register NOW) Students are required to bring a valid photo ID. The COMPASS test is a computerized test and is not timed.

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

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

  **Student Government Association** — The Student Government Association (SGA) strives to represent the opinions of the students on every aspect of campus academic and extracurricular life. Its members work closely with students, faculty, and administration to provide advice and information and a strong voice in the governance of the university. The SGA is located near the Center for Community Engagement, Learning, and Leadership on the lower level of the D.P. Culp University Center, phone (423) 439-5325.

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

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

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

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

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

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

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

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

• University Press — The University Press is the Tennessee Board of Regents recognized print facility for ETSU and is located on the lower level of Sam Wilson Hall. The Press is a full service print shop with the ability to produce brochures, programs, handbooks, reports, newsletters, flyers, posters as well as other B&W and color publications.

UP also provides comprehensive graphic services for faculty, administration, and staff including business cards, letterhead, invitations along with output of graphic files and scanned material. Also located at University Press is a full service quick copy department, ready to handle one copy or high volume. In addition, UP has a satellite quick copy booth in the Culp Center for walk-up customers requiring copies, faxes, spiral binding and transparencies. University Press is open Monday through Friday from 8 a.m. until 4:30 p.m. For more information, call (423) 439-4250.

• Veterans’ Affairs — Coordinates the administration of education benefit programs of the United States Department of Veterans Affairs (USDVA) for eligible veterans and certain dependents of disabled veterans. Currently, the entitlement programs primarily consist of:

- 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)
- Survivors’ and Dependents’ Educational Assistance Program (Chapter 35, Title 38 United States Code)
- Veterans’ Work-Study Allowance Program
- Licensing and Certification Examination Reimbursement Program

Veterans’ Affairs can provide information, forms and assistance with the application for any of USDVA education benefit programs. Graduate students desiring benefit payments must contact Veterans’ Affairs each semester to request their enrollments be certified to the USDVA Atlanta Regional Processing Office (RPO). Students are required to keep Veterans’ Affairs informed of all changes to enrollments. Graduate students are also required to provide a copy of their official acceptance letter into graduate study. By federal regulations, student veterans must attend classes, demonstrate satisfactory conduct and effort toward fulfilling the requirements courses in their selected academic program; otherwise, retroactive adjustments to enrollment certifications may be made that may affect eligibility to past benefit payments received. Military experience and training are not considered for award of any academic credit at the graduate level.

Information on veteran education benefit programs is available from the USDVA Veterans Benefits Administration Education Service on the Internet at www.GIBILL.va.gov. Inquiries about the status of education benefit payments and other general information, such as remaining entitlement and expiration date of benefits, may be directed to the USDVA Atlanta RPO toll-free at 1.888.GI.BILL.1 (1.888.442.4551) or electronically to <atltpo@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. Veterans’ Affairs does not have access to benefit payment status, remaining and expiration of entitlement, and other information maintained by the USDVA.

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 enrollment election form), if available, or other veterans education benefit entitlement/eligibility documents, including, but not limited to, college fund or “kicker” contracts or “buy-ups”, if any. Reservists and members of the National Guard will need to provide the original of DD Form 2384, Selected Reserve Educational Assistance Program Notice of Basic Eligibility. Survivors and dependents of totally and permanently service-connected disabled (or deceased) veterans applying for education benefits should provide a copy of the disabled/deceased veteran’s disability “Rating Decision” or a copy of the USDVA “Certificate of Eligibility,” if received from a previously submitted application.

Active duty military service members, reservists, or National Guard members may use tuition assistance benefits in conjunction with USDVA education benefit programs, but should consult with and 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 education benefits entitlement 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. Further information may be obtained by telephone at (423) 926-1171 extension 7181.

Veterans’ Affairs also assists in the coordination and supervision of benefits approved under the USDVA Vocational Rehabilitation & Employment (VR&E) program (Chapter 31, Title 38 United States Code). VR&E beneficiaries must also contact Veterans’ Affairs each semester for approval of enrollment registration. Questions pertaining to program eligibility or out-of-area transfers to the university may also be directed to J. Douglas Murdock, Case Manager, <vrcdmurd@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. Disabled veterans should also coordinate any special campus access and use related needs with Disability Services located on the Lower Level of the D.P. Culp University Center, Suite A, or the office can be reached by telephone at (423) 439-8346.
Veterans’ Affairs is located within the Office of the Registrar in Room 101A Burgin E. Dossett Hall on the main campus. Office hours are from 8:00 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/.

Eligibility for Deferment of Payment of Tuition and Fees by Certain Eligible Students Receiving U.S. Department of Veterans Affairs or Other Governmentally Funded Educational Assistance Benefits

Servicemembers, veterans, and dependents of veterans who are eligible beneficiaries of U.S. Department of Veterans Affairs education benefits or other governmentally funded educational assistance, subject to the conditions and guidelines set forth in Tennessee Code Annotated 49-7-104 as amended, may elect, upon formal application, to defer payment of required tuition and fees until the final day of the term for which the deferment has been requested. Application for the deferment must be made no later than 14 days after the beginning of the term, and the amount of the deferment shall not exceed the total monetary benefits to be received for the term. Students who have been granted deferments are expected to make timely payments on their outstanding tuition and fees balance once education benefits are being delivered, and eligibility for such deferment shall terminate if the student fails to abide by any applicable rule or regulation, or to act in good faith in making timely payments. This notice is published pursuant to Public Chapter 279, Acts of 2003, effective July 1, 2003.

Eligible students seeking deferments on the payment of tuition and fees pursuant to state law need to have their eligibility status verified by the Veterans’ Affairs office and complete a request form that is, in turn, presented to the Bursar’s Office. Students desiring to participate in the Veterans’ Work-Study Allowance Program must submit an application each semester along with a copy of the student’s enrollment certification that can be obtained from the Veterans’ Affairs office after allowing ample time for preparation. Students should contact Veterans’ Affairs as soon as possible after enrolling to complete all required forms.

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

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

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

Housing and Residence Life

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

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

Residence halls are centrally located and provide an environment for living and learning. University housing includes residence halls/apartments for single students and apartments for family housing. All residence halls have rooms furnished with twin-size beds; desk; chairs; closets; mini-blinds; and telephone and cable TV hookups. 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 are available in each hall to assist with the total operation of the hall; enforce rules and regulations; provide programs and activities; advise, counsel and refer students; assist in emergencies; and other assigned duties. The university has adopted lifestyle options and visitation plans which are voted on by each hall at the beginning of each school year. Guests of the opposite sex may be entertained in individual rooms only during those specified visitation hours.

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

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

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

Application Procedure — An application will be mailed to all students approved for admission to the university or an application may be obtained by contacting the Department of Housing and Residence Life. Early application, preferably before April 1, for fall semester and October 1 for spring semester is encouraged. Assignments for fall semester begin in April and mid-December for spring.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Intercollegiate Athletics

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

A “major” is the curriculum for a particular field of study a student wishes to pursue in earning a degree. The minimum number of credits for a major is 24, but the total varies according to the area. An “area concentration” is a specialized area of study within a major. Most majors require a “minor.” A minor is a secondary area of study which requires a minimum of 18 credits. Students should consult this catalog to determine the major and minor requirements for specific areas of study. They should meet regularly with an academic advisor in the major to select courses needed to complete a degree. Students should also meet with an advisor in their chosen minor department to ensure that the correct courses are chosen to complete the minor.

Declaring a Major

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

Grades

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

<table>
<thead>
<tr>
<th>GRADE</th>
<th>GRADE POINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
</tr>
<tr>
<td>C-</td>
<td>1.7</td>
</tr>
<tr>
<td>D+</td>
<td>1.3</td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
</tr>
</tbody>
</table>

*Developmental Studies and Graduate Studies do not assign these grades.

How to Compute a Grade Point Average

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

Step 1. Grade Points earned in a course x Course credit hours = Grade points for course

Step 2. Sum of grade points for all graded courses = Total grade points

Step 3. Total grade points divided by all credit hours attempted = GPA

Example:

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
<th>Credit Hours</th>
<th>Grade Points for Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>B</td>
<td>3</td>
<td>3 = 9</td>
</tr>
<tr>
<td>CHEM 1030</td>
<td>A</td>
<td>4</td>
<td>4 = 16</td>
</tr>
<tr>
<td>HIST 2010</td>
<td>C</td>
<td>3</td>
<td>2 = 6</td>
</tr>
<tr>
<td>MATH 1530</td>
<td>C</td>
<td>3</td>
<td>2 = 6</td>
</tr>
<tr>
<td>CSCI 1100</td>
<td>A</td>
<td>3</td>
<td>4 = 12</td>
</tr>
</tbody>
</table>

Total 16 49

49 divided by 16 = 3.06

Grades that do not influence Grade Point Average:

P — Pass: Grade points are not assigned; credit hours are earned.

Cr — Credit: Grade points are not assigned; credit hours are earned.

I — Incomplete: Indicates a passing grade at the end of a semester, but an important part of the course was not completed (e.g., term paper, exam).

Au — Audit: Credit hours are not earned.

W — Withdrawal: (See Adding and Dropping Courses and Withdrawing from the university.)

WF — Withdrawal Failing: (see Adding and Dropping Courses and Withdrawing from the university.)

Grade Appeal Process

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

Grade Reports

ETSU provides grades to registered students online via GoldLink: Students may obtain a printed copy of their grades by clicking Request Grade Mailer on the grade viewing screen in GoldLink. Requests for printed copies of grades must be submitted within two weeks after the end of the term.

Academic departments retain grade documentation for a period of one year. Student concerns regarding academic records will only be addressed within one academic year from the date when the grades in question were posted.

Pass/Fail Grading

The pass/fail (P/F) grading option allows qualified undergraduate students to explore, in a limited manner, their interests and abilities by receiving a pass or fail grade instead of a regular letter grade in a course. This section describes the P/F grading option available to individual students. The regulations cited here do not apply to the use of non-letter grades in entire courses.
Dean's List
To qualify for the Dean's List an undergraduate student must meet the following criteria for the term:
1. Earn no grade below 'C' in any course taken that term.
2. Pass a minimum of 12 credits (excluding audits, incompletes, repeats, pass/fail, and Developmental Studies courses).
3. Achieve a minimum GPA of 3.7000 for the term in applicable courses.

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

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

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

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

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

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

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

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

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

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

Student Classification
<table>
<thead>
<tr>
<th>Student Classification</th>
<th>Freshman (FR)</th>
<th>Sophomore (SO)</th>
<th>Junior (JR)</th>
<th>Senior (SR)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0 - 29.9</td>
<td>30.0 - 59.9</td>
<td>60.0 - 89.9</td>
<td>90.0 and up</td>
</tr>
</tbody>
</table>

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

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

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

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

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

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

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

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

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

Class Load
Fall and Spring Semesters

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

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

Audit enrollment is used in determining class loads

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

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

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

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

Exceptions

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

Class Attendance Policy

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

Absences Occasioned by University-Sponsored Activities:

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

Absences Due to Emergency, Special Circumstances, or Illness:

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

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

Repeating a Course

The following regulations apply to repeating courses:

1. A course in which an undergraduate student has an ‘A’ or ‘B’ grade may not be repeated.

2. If a course in which the student has a ‘C’, ‘D’, or ‘F’ grade is repeated, only the most recent attempt (excluding ‘I’, ‘W’, or ‘WF’ grades) will be used in calculating the grade point average. However, all grades earned in the third and subsequent attempts will be used in calculating the summary line (grade point average).

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

Incomplete Grades

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

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

Auditing a Course

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

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

Adding and Dropping Courses

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

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

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

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

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

**Withdrawing from the University**

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

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

**Student Proficiency in English**

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

**Academic Probation and Suspension Policies**

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

<table>
<thead>
<tr>
<th>Hours Attempted</th>
<th>Semester Credit</th>
<th>Cumulative GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 – 29</td>
<td></td>
<td>1.4</td>
</tr>
<tr>
<td>29.1 – 45</td>
<td></td>
<td>1.7</td>
</tr>
<tr>
<td>45.1 – 59.9</td>
<td></td>
<td>1.9</td>
</tr>
<tr>
<td>60+</td>
<td></td>
<td>2.0</td>
</tr>
</tbody>
</table>

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

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

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

**Appeal Procedure for Reinstatement following Suspension:** Where extenuating circumstances are established as primary factors relating to low grades, a student may petition to waive or end the period of suspension. This petition must describe verifiable, extenuating circumstances, which may include illness as evidenced by medical documentation; personal problems, such as divorce or serious domestic problems; accidental injury; or other circumstances beyond the student's control.

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

**Work in Other Institutions**

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

**The ETSU Honor Code**

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

DEGREE AND GRADUATION REQUIREMENTS

Degrees

East Tennessee State University confers the following degrees:

Undergraduate

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

Graduate

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

Bachelor Degree Requirements General

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

   * Grades in all courses taken in the major and minor departments are reflected in the grade point average for the major and minor (or area concentration).

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

3. Transfer students must complete enough work in residence at ETSU in both the major and minor to satisfy the chair of the departments that they are qualified in the major and minor fields. Transfer students must take a minimum of six semester hours at ETSU in the major field.

4. Students must satisfy a residency requirement of not less than two semesters during the junior and senior years, including the last full semester. The residence requirement shall be no less than 25 percent of the total requirements of the program of study (i.e., 30 semester hours for a program of study of 120 semester hours). Not less than 12 semester hours may be counted as a semester of residence. Courses taken at East Tennessee State University off-campus centers are classified as residence credit.

5. A minimum of 50 semester hours of credit must have been completed in a senior-level college or university.

6. Students must have demonstrated proficiency in written and spoken English.

7. Students must complete the Core Exit Exam and all other required exit exams, such as the Major Field Test. These exams must be completed with due seriousness and diligence. The results of these tests are important to the university and are used in the evaluation of academic programs. The Core Exit Exam, which measures general education, should be taken as soon as general education requirements are met and not later than the beginning of the senior year. The Major Field Test is required in selected departments and administered during the senior year. Departments requiring the Major Field Test and Core Exit test dates are listed each semester in the Schedule of Classes Bulletin and on the web at http://www.etsu.edu/reg/graduation/exit_exam_sched.htm.

8. Students must file an Intent to Graduate form with the Office of the Registrar, Graduation Office, no later than the close of the first month of the senior year. The deadline for filing this is included in the academic calendars of the catalogs and the Schedule of Classes. It is the responsibility of the student to ensure that this deadline is met. No diploma or transcript will be issued to students with outstanding financial obligations.

9. Compliance with any changes which may be made in the curricula may be required for students not completing degree requirements within six years from the date of first registration.

Foreign Language Proficiency (B.A.)

Students studying for a bachelor of arts (B.A.) degree shall be required to demonstrate proficiency in a foreign language equivalent to the completion of two years of college-level work.

Second Bachelor's Degree

Students who hold a bachelor's degree from ETSU or any other regionally accredited college or university may subsequently earn a second bachelor's degree from ETSU by satisfactorily completing: 1) a minimum of 30 semester credits of study at ETSU; 2) all course requirements for the additional degree and major being pursued; and 3) all Tennessee Board of Regents undergraduate degree requirements. A student pursuing a second bachelor's degree is subject to all departmental admission requirements and to all departmental and university graduation requirements. Application to enroll for a second bachelor's degree must be made through the Office of Admissions.

Honors' Distinction

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

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

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

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

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

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

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

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

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

Double Majors

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

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

Double Degrees

Simultaneous Fulfillment of Requirements for Multiple Degrees

A student may concurrently receive multiple undergraduate degrees at a single degree level by satisfying the total requirements for each degree (e.g., B.A., B.S., B.B.A., etc.) and major.

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

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

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

Achievement Test Requirements

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

Eligibility For Participation In Graduation Ceremonies

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

Goals of General Education

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

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

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

General Education Course Requirements

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

COMMUNICATION

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

Written Composition. Complete both of the following:

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

Oral Communication. Complete one of the following:

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

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

HUMANITIES AND FINE ARTS

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

Literature. Complete one of the following:

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

Fine Arts. Complete one of the following:

ARTH 2010 Art History Survey I ......................... 3 credits
ARTH 2020 Art History Survey II ........................ 3 credits
MUSC 1030 Introduction to Music .......................... 3 credits
MUSC 1035 History of Jazz .................................. 3 credits
PEXS 3500 Dance as Human Experience .............. 3 credits
THEA 1030 Introduction to Theatre ...................... 3 credits

Humanities Electives. Complete one of the following:

ENGL 3150 Literature, Ethics, and Values ............... 3 credits
ENGL 3280 Mythology ......................................... 3 credits
ENTC 3020 Technology and Society ...................... 3 credits
HIST 1110 World History and Civilization to 1500 .......................... 3 credits
HIST 1120 World History and Civilization Since 1500 .......................... 3 credits
HUMT 2310 Introduction to the Humanities I .......... 3 credits
HUMT 2320 Introduction to the Humanities II ........ 3 credits
PHIL 1030 Introduction to Philosophy ................... 3 credits
PHIL 2020 Introduction to Ethics .......................... 3 credits
PHIL 2040 Philosophy as Conversation .................. 3 credits
RELI 2210 Introduction to the Study of Religion ..... 3 credits
PHIL 2640 Science and the Modern World ............. 3 credits
### SOCIAL AND BEHAVIORAL SCIENCES

6 credits, consisting of two of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 1050</td>
<td>Economics and Society or</td>
<td></td>
</tr>
<tr>
<td>ECON 2210</td>
<td>Principles of Economics I</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 1012</td>
<td>Introduction to Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>HDAL 2310</td>
<td>Developmental Lifespan Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 1110</td>
<td>Political Life</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 1120</td>
<td>Introduction to American Government</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 1310</td>
<td>Introduction to Psychology</td>
<td></td>
</tr>
<tr>
<td>SOAA 1020</td>
<td>Introduction to Sociology</td>
<td></td>
</tr>
<tr>
<td>SOAA 1240</td>
<td>Introduction to Cultural Anthropology</td>
<td></td>
</tr>
<tr>
<td>SOAA 2020</td>
<td>Social Problems</td>
<td></td>
</tr>
<tr>
<td>SRVL 1020</td>
<td>Introduction to Service-Learning</td>
<td></td>
</tr>
<tr>
<td>WMST 2010</td>
<td>Introduction to Women's Studies</td>
<td></td>
</tr>
</tbody>
</table>

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

### HISTORY

6 credits, consisting of both of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2010</td>
<td>The United States to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2020</td>
<td>The United States Since 1877</td>
<td>3</td>
</tr>
</tbody>
</table>

NOTE: HIST 2030 History of Tennessee (3 credits) may be substituted for 3 credits of United States History.

### NATURAL SCIENCES

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 1010</td>
<td>Astronomy I</td>
<td>4</td>
</tr>
<tr>
<td>ASTR 1020</td>
<td>Astronomy II</td>
<td>4</td>
</tr>
<tr>
<td>ASTR 1035</td>
<td>Life in the Universe</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1110/11</td>
<td>Biology for Science Majors I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1120/21</td>
<td>Biology for Science Majors II</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1130/31</td>
<td>Biology for Science Majors III</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1110/11</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1120/21</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 1110</td>
<td>Earth Science: Weather and Climate</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 1120</td>
<td>Earth Science: Landforms and Processes</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 1040</td>
<td>Physical Geology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 1050</td>
<td>Historical Geology</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 2010/11</td>
<td>Anatomy &amp; Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 2020/21</td>
<td>Anatomy &amp; Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2010/11</td>
<td>General Physics I-Non-Calculus</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2020/21</td>
<td>General Physics II-Non-Calculus</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2110</td>
<td>Technical Physics I - Calculus Based</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 2120</td>
<td>Technical Physics II - Calculus Based</td>
<td>5</td>
</tr>
</tbody>
</table>

Open to nonscience majors only:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1010/11</td>
<td>Biology for Non-majors I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1020/21</td>
<td>Biology for Non-majors II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1000</td>
<td>Chemistry and Well Being</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1030</td>
<td>Introduction to Chemistry Survey</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 1030</td>
<td>Introduction to Physics Survey</td>
<td>4</td>
</tr>
</tbody>
</table>

### MATHEMATICS

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

<table>
<thead>
<tr>
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NOTE: Students eligible to enroll in one of these math courses must do so during their first calendar year of enrollment or prior to accumulating 33 semester credits at ETSU. Students who take Developmental Studies Math (DSPM) courses should complete the general education math requirement after completing DSPM courses and must do so in the next calendar year or prior to accumulating 33 more semester credits at ETSU.
Transferring General Education Courses within the Tennessee Board of Regents System

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

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

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

Other Graduation Requirements

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

Using Information Technology

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

Proficiency-Intensive Course Requirements

Oral communication, information technology, and writing skills are essential for success on the job and in our personal lives. To help build these skills throughout the college years, ETSU requires all students to meet “proficiency-intensive” requirements. These requirements do not necessarily add course hours to a student's program of study, but typically are met by courses being taken for the major or general education or as electives. Certain courses within every major, as well as selected courses in the general education core, are declared oral communication-intensive, using information technology-intensive, or writing-intensive. These courses offer students the opportunity to practice the identified skills while learning the subject matter of the course. ETSU's proficiency-intensive courses are indicated in the Schedule of Classes each term. A complete listing of such courses is also available at http://www.etsu.edu/rep/missive.

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

Oral Communication-Intensive Courses

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

Using Information Technology-Intensive Courses

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

Writing-Intensive Courses

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

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

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

- transfer students with an associate degree designed for transfer;
- transfer students with 50 or more transferrable semester credits upon entering ETSU; and
- readmission students with 50 or more credits upon re-entering ETSU, whose last term of enrollment at ETSU was prior to 1995.

Reading

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

GRADUATION PROCEDURES

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

2. Not later than the close of the first week of the final semester, the candidate must file approved major and minor sheets (or area of concentration sheet).

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

4. All fees and financial obligations must be settled in full at least one week before the date on which the degree is to be conferred. Neither the diploma nor transcripts can be released until all accounts are cleared. Additional information is available at www.etsu.edu/reg/graduation.

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

6. Degrees are conferred three times a year, at the end of the fall, spring, and summer terms.

Eligibility for Participation in Graduation Ceremonies

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

Graduating with Honors

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

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

The grade point average used in conferring academic honor at graduation includes work at this university as well as all other college work attempted.
## DEGREE PROGRAM MAJORS AND CONCENTRATIONS

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

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<td>Geoscience</td>
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## ACADEMIC MINORS

- African/African-American Studies
- Appalachian Studies
- Anthropology
- Applied Spanish
- Bluegrass, Old Time, and Country Music
- Coaching
- Communicative Disorders
- Emergency/Disaster Response Management
- Environmental Studies
- Film Studies
- General Business
- Geology
- Human Development and Learning
- International Studies
- Japanese
- Leadership Studies
- Legal Studies
- Leisure Services
- Military Science
- Sport Management
- Women's Studies
- Safety
- Teacher Education
- Urban and Regional Studies

## PRE-PROFESSIONAL PROGRAMS

- No Degree Given, Must Select a Degree Program from Above List Of Majors
- Pre-Dentistry
- Pre-Engineering
- Pre-Law
- Pre-Medicine
- Pre-Occupational Therapy
- Pre-Optometry
- Pre-Pharmacy
- Pre-Physical Therapy
- Pre-Veterinary Medicine
Academic Honors Programs  
The Honors College

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

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

Opportunities for All Undergraduates

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

Academic Honors Programs

Academic Honors Programs offered at ETSU include:

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

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

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

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

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

Honors-in-Discipline Programs

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

College of Business & Technology
College of Nursing
College of Arts and Sciences:
  Department of Biological Sciences
  Department of Chemistry
  Department of Criminal Justice & Criminology
  Department of English
  Department of History
  Department of Mathematics
  Department of Philosophy & Humanities
  Department of Physics, Astronomy & Geology
  Department of Psychology
College of Education:
  Teacher Education Program
College of Public and Allied Health:
  Department of Environmental Health

For more information about these programs, refer to descriptions and instructions provided in each of these academic areas within this catalog. New Honors-in-Discipline programs become available each year. Contact the Honors College, Office of University Honors Programs (P.O. Box 70294, Johnson City, TN 37614-1701; (423) 439-6456); email holand@etsu.edu or visit [http://www.etsu.edu/honors/university/discipline].

University Honors Scholars Program

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

University Honors Scholars have unrestricted access to Honors House (914 W. Maple Street), with computer facilities, conference and meeting rooms, lounge, and study areas. Interested potential candidates are encouraged to visit Honors House and meet with the Director; see information below to make an appointment.
The special application required for the University Honors Scholars Program is available only from the University Honors Programs Office. Minimum qualifications for consideration include a 29 ACT or 1280 SAT (Reading + Math only) and a high school GPA of 3.5 (4.0 scale). High school curriculum, letters of recommendation, extracurricular activities, high school scholastic honors, and a personal essay are considered in the application process. Scholarships are awarded on a competitive basis each year. The application deadline typically is the end of January for admission the following fall semester.

For more information about University Honors Scholars Program, contact the Office of University Honors Programs (P.O. Box 70294, Johnson City, TN 37614-1701; (423) 439-6456); email the Director, Dr. Jay Boland (boland@etsu.edu), or visit our web site at http://www.etsu.edu/honor.

Fine & Performing Scholars Program

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

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

Admission to the Fine & Performing Arts Scholars Program requires special application and submission of a portfolio to support evidence of artistry. Application and further information about the portfolio can be found on our web site, http://www.etsu.edu/honor/arts. Minimal qualifications for consideration include a 22 ACT or 1050 SAT (Reading + Math only) and a high school GPA of 2.8 (4.0 scale). High school curriculum, letters of recommendation, and a personal essay are considered in the application process. Scholarships are awarded on a competitive basis each year. The application deadline typically is March 15 for admission the following fall semester.

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

Midway Scholars Program

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

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

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

For more information about the Midway Scholars Program, contact the Director, Dr. Jay Boland (boland@etsu.edu; (423) 439-6456) or the Honors College (P.O. Box 70589, Johnson City, TN 37614-1701; (423) 439-6076).
Learning is a lifelong process. Education in the liberal arts provides the means of discovering and using knowledge to elevate the standards of human existence today and in the future. Such study liberates the individual to become a more effective citizen.

The College of Arts and Sciences consists of the departments of Art and Design; Biological Sciences; Chemistry; Communication; Criminal Justice and Criminology; English; Foreign Languages; History; Mathematics; Music; Philosophy and Humanities; Physics, Astronomy and Geology; Political Science; Psychology; Social Work; and Sociology and Anthropology, as well as the Center for Appalachian Studies and Services and the Center of Excellence in Paleontology. Interdisciplinary studies are also offered in African and African American Studies; Environmental Studies; Film Studies; International Studies; and Women's Studies.

The college offers a well-rounded liberal education program which enhances students’ ability to lead satisfying personal lives, prepares them for a wide range of professional careers, and provides the academic background necessary for graduate work or for elementary or secondary teaching. The college’s curriculum introduces students to major fields of interest in the humanities and fine arts, the social sciences, and the natural sciences.

The College of Arts and Sciences defines liberal education as including three major components: 1) the central elements of knowledge, 2) essential skills for analysis, communication, decision making, and lifelong learning, and 3) constructive orientation toward society.

### Central Elements of Knowledge

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

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

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

### A Constructive Orientation Toward Society

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

### Graduate and Preprofessional Studies

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

Students following pre-professional programs in Criminal Justice or the Communication areas should consult an advisor in the appropriate department. Candidates for Pre-Law should contact the University Pre-Law Advisor in the Department of Political Science. Pre-Engineering students are advised through the Department of Mathematics. Pre-Pharmacy students should contact the appropriate advisor in the Department of Chemistry. The College of Arts and Sciences’ Office of Medical Professions Advisement assists students preparing for careers in the health professions, such as chiropractic, medicine, optometry, osteopathic medicine, dentistry, physician assistant, podiatric medicine, and veterinary medicine.

Students considering careers in the health professions should consult their advisor before enrolling at ETSU. All preparatory curricula are specific and structured, and a failure to register for appropriate courses during the first year may result in the loss of an academic year of progress. The health professions advisor provides assistance regarding the skills for successful competition in undergraduate and professional schools, standardized test procedures, alternate career opportunities, interview success, timing of coursework and entrance tests, and procedures for application to the medical profession schools. Inquiries concerning health professions careers should be directed to the Office of Medical Professions Advisement, P.O. Box 70592, East Tennessee State University, Johnson City, TN 37614; telephone (423) 439-5602.

### B.A./B.S. - M.B.A. 3/2 Program

Well-qualified undergraduate students in the College of Arts and Sciences who are interested in pursuing a Master of Business Administration (M.B.A.) degree in a total of five years should consider the joint 3/2 program with the College of Business and Technology. Interested students should contact the Director of Graduate Programs in the College of Business and Technology (Room 214 Sam Wilson Hall, (423) 439-5314) for additional information.
Students majoring in the College of Arts and Sciences must meet the following requirements for the Bachelor of Arts (B.A.), Bachelor of Science (B.S.), or the B.S. Concentration for Social and Behavioral Sciences. Some requirements must be taken in addition to the General Education Core, whereas others specify which courses from the General Education Core must be taken. Students interested in degree programs in Fine Arts (B.F.A.), Music (B.M.), or Social Work (B.S.W.) should consult the appropriate departmental section of this catalog for specific information.

### Required Areas

<table>
<thead>
<tr>
<th>Required Areas</th>
<th>Bachelor of Arts</th>
<th>Bachelor of Science</th>
<th>Bachelor of Science Concentration for Social and Behavioral Sciences</th>
</tr>
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<tbody>
<tr>
<td>Foreign Languages</td>
<td>Proficiency in a single language equivalent to two years at the college-level</td>
<td>None</td>
<td>None</td>
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<tr>
<td>Non-U.S. History</td>
<td>3 hours</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Specified General Education Core: MATH 1530, MATH 1840, or MATH 1910</td>
<td>Specified General Education Core: as minimum 4 hours experience in differential and integral calculus; Prerequisites are required for the following courses: MATH 1910, or MATH 1850</td>
<td>Specified General Education Core: MATH 1530</td>
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<tr>
<td>Natural Sciences</td>
<td>General Education Core</td>
<td>In addition to General Education Core: (8) Eight hours in a SINGLE laboratory science from the following list*: (1) ASTR 1010 and 1020 (labs included) (2) BIOL 1010/11 and 1020/21 (3) BIOL 1110/11 and 1120/21 or BIOL 1130/31 (labs included) or BIOL 1130/31 (4) CHEM 1110/11 and 1120/21 (5) GEOL 1040 and 1050 (labs included) (6) GEOG 1110 and 1120 (labs included) (7) PHYS 2010/11 and 2020/21; or PHYS 2110 and 2120 (labs included) *Higher level laboratory courses in these departments also meet this requirement.</td>
<td>Specified General Education Core: (8) Eight hours in a SINGLE laboratory science from the following list*: (1) ASTR 1010 and 1020 (labs included) (2) BIOL 1010/11 and 1020/21 (3) BIOL 1110/11 and 1120/21; (4) CHEM 1110/11 and 1120/21 (5) GEOL 1040 and 1050 (labs included) (6) GEOG 1110 and 1120 (labs included) (7) PHYS 2010/11 and 2020/21; or PHYS 2110 and 2120 (labs included) *Higher level laboratory courses in these departments also meet this requirement.</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>General Education Core</td>
<td>General Education Core</td>
<td>In addition to General Education Core: (4) Four courses, one from each of the following areas: (1) Social Statistics: (a) PSYC 3100 (b) CJCR 3000 (c) SOAA 3350 (2) Reasoning: (a) PHIL 2030 (b) SPCH2320 (3) Research Design (a) PSYC 3200/01 (b) CJCR 2000 (c) SOAA 3210 or 4627 (d) GEOG 2310 or 4807 (e) SPCH3330 (4) Computing Skills (a) CJCR 3444 (b) PSYC 3444 (c) SOAA 3444</td>
</tr>
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</table>
African and African American Studies Program (AFAM)

Box 70672 Phone: (423) 439-6688

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

Because of its great flexibility, the program serves as an attractive option for students in a wide variety of majors. In consultation with an African 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 American studies requires the completion of 21 hours of coursework, including the following:

African and American

Studies Minor .................................................. 21 Credit Hours

HIST 3720 History of Africa .................................... 3
HIST 3900 African American History to 1877 ............ 3
HIST 3901 African American History Since 1877 ....... 3
SOAA 3110 Minorities ........................................... 3
Approved Upper Division Course* ........................................... 9

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

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 American Studies........... 12 Credit Hours
AFAM 3999 Cooperative Education ......................... 3
AFAM 3999 Cooperative Education ......................... 3
AFAM 4900 Special Studies ................................. 3
AFAM 4950 Senior Seminar ................................. 3

Art .......................................................... 3 Credit Hours
ARTA 4957 Special Topics on Survey of the Arts ........ 3

Criminal Justice and Criminology ........ 3 Credit Hours
CJCR 4670 Race, Gender, and Crime ...................... 3

English ....................................................... 6 Credit Hours
ENGL 4032 African Literature ............................... 3
ENGL 3400 African American Literature ................. 3

Geography .................................................... 3 Credit Hours
GEOG 4307 Regional Geography: Geography of Africa .... 3

History .......................................................... 12 Credit Hours
HIST 3720 History of Africa .................................. 3
HIST 3900 African American History to 1877 ........... 3
HIST 3901 African American History Since 1877 ....... 3
HIST 4727 Modern Africa ................................... 3

Music ........................................................ 3 Credit Hours
MUSC 2110 History of Jazz ....................................

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

Appalachian Studies Minor

(APS T)

Box 70556 423-439-4748 or 7865

Dr. Richard Blausen 113 Rogers-Stout Hall

The Appalachian Studies minor is an 18-hour, interdisciplinary program for students who would like to gain a greater appreciation for and understanding of the Appalachian region. Students are required to take courses in at least two different departments. No more than three credit hours taken as part of the Appalachian Studies minor may be counted toward a major in any field.

The minor requires a core of six credit hours and 12 credit hours of guided electives, which allow students to focus on their personal interests in Appalachian issues. Students are required to select the guided electives in consultation with the Appalachian Studies advisor and are encouraged to design a thematic course grouping that suits their personal interests (sample groupings are listed below). Students wishing to explore the Scottish and Irish heritage of the Appalachian region should consult with Dr. Tess Lloyd, Department of English, and enroll in Appalachian, Scottish, and Irish Studies at ETSU (APST 4237/5237) and Appalachian, Scottish, and Irish Studies in Scotland (APST 437/5377), which are offered for three or six hours credit and can be included in the guided electives.

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

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

Regional History and Culture

APST 3530 Religion in Appalachia ............................ 3
APST 4237 Scots-Irish in Appalachia ........................ 3-6
APST 4337 Appalachia in Scotland .......................... 3-6
APST 4907 Appalachian Foodways ............................ 3
ENGL 3650 American Folklore .................................. 3
ENGL 3065 Southern Appalachian Literature .............. 3
ENGL 4137 Dialectology ......................................... 3
GEOG 4077 Geography of Southern Appalachia ........... 3
HIST 2030 History of Tennessee ............................. 3
HIST 4147 The Old South, 1807-1860 ....................... 3
HIST 4157 The South Since 1865 ............................. 3
HIST 4167 History of Southern Appalachian ............... 3
SOWK 2400 Social Institutions and Appalachian Culture ... 3

Regional Politics and Community Development

HIST 4167 History of Southern Appalachian ............... 3
HIST 2030 History of Tennessee ............................. 3
PSCI 3060 Southern Politics .................................... 3
PSCI 3710 State and Local Government ..................... 3
PSCI 4160 Idea of the City ..................................... 3
PSCI 4450 Appalachian Politics ................................ 3
PSCI 4820 Politics of Development and Change ............ 3
SOWK 2400 Social Institutions and Appalachian Culture ... 3
Regional Music and Folk Culture
APST 4907 Appalachian Foodways ......................... 3
BLUE 4907 Appalachian music ......................... 1-3
ENGL 3650 American Folkore ........................................ 3
READ 4147 Basic Storytelling .................................................. 3
SOAA 2040 Folk Culture in the Modern World .................. 3
SOAA 4357 Mass Communications and Popular Culture .......... 3
SOAA 4627 Ethnographic Fieldwork Techniques .................. 3

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

Regional Arts and Crafts
ARTA 2071 or
ARTA 3071 Weaving ...................................................... 3
ARTA 3380 Vegetable Dyeing ................................................ 3
ARTA 3091 or
ARTA 3092 Ceramics ..................................................... 3
HIST 4167 History of Southern Appalachia .................... 3
ENGL 3085 Southern Appalachian Literature .................... 3
SOAA 4357 Mass Communication & Popular Culture ............. 3

Department of Art and Design
(Art Major (ABFA)
Box 70708 Phone: (423) 439-4247

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


Statement of Purpose

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

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

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

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

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

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

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

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

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

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

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

The B.F.A. Degree

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

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

Students in the B.F.A. program should be aware that the final advanced study courses taken in the area of specialization should have as the primary goal the production of art work of exhibition quality and that examples of this work will be exhibited by the Department of Art and Design as proof of the student’s excellence in a required senior exhibit. A committee of three art faculty including the student’s major advisor will review and evaluate each student’s B.F.A. exhibit.

Bachelor of Fine Arts Degree (B.F.A.) Art Major (ABFA)

ETSU Academic Proficiency Requirements

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

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

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

Transfer students may be subject to reduced number of intensives.

See ETSU Academic Proficiency Requirements for details.

TBR General Education Requirements 41-42 Credit Hours

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

*Mathematics, Natural Science, Humanities, and Social/Behavioral Sciences must be completed with a grade of “C” or above.

See the General Education Course Requirements for options.
<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTA 1201 Drawing Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 1110 2-D Design</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 1204 Color Theory</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 1140 3-D Design</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 2010 Art History Survey I</td>
<td>*</td>
</tr>
<tr>
<td>ARTA 2020 Art History Survey II</td>
<td>3</td>
</tr>
</tbody>
</table>

Satisfies TBR General Education Core Requirement.

**B.F.A. Requirements** ........................................ 64 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Six 2000-level studio courses approved for area concentration</td>
<td>18</td>
</tr>
<tr>
<td>Three 4000-level art history courses with one selected from either ARTH 4067 or ARTH 4077</td>
<td>9</td>
</tr>
<tr>
<td>ARTA 2916 Works in Progress Review (taken after 36 &amp; before 45 ARTA credits)</td>
<td>0</td>
</tr>
<tr>
<td>Five 3000-level studio courses approved for area concentration</td>
<td>15</td>
</tr>
<tr>
<td>Six 4000-level studio courses approved for area concentration</td>
<td>18</td>
</tr>
<tr>
<td>One ARTA studio elective</td>
<td>1</td>
</tr>
<tr>
<td>ARTA 4916 Portfolio &amp; Exhibit</td>
<td>3</td>
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</table>

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

**Suggested Course Sequence**

**Freshman Year**

<table>
<thead>
<tr>
<th>Semester</th>
<th>First Semester</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Critical Reading &amp; Expository Writing</td>
<td>3</td>
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<tr>
<td>HIST 2010 The United States to 1877</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ARTA 1201 Drawing Fundamentals</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ARTA 1110 2-D Design</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ARTA/ARTH 2020 Art History Survey I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Semester Total</td>
<td>15</td>
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</table>

**Second Semester**

<table>
<thead>
<tr>
<th>Semester</th>
<th>First Semester</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1020 Critical Thinking &amp; Argumentation</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIST 2020 The United States Since 1877</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ARTA 1204 Color Theory</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ARTA 1140 3-D Design</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ARTA/ARTH 2020 Art History Survey II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Semester Total</td>
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</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>Semester</th>
<th>First Semester</th>
<th>Credit Hours</th>
</tr>
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<tbody>
<tr>
<td>English Communication: Oral Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Social/Behavioral Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>2000-Level Studio Courses</td>
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**Second Semester**

<table>
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<tr>
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<th>Credit Hours</th>
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</thead>
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<tr>
<td>Natural Science</td>
<td>4</td>
<td></td>
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<tr>
<td>2000-Level Studio Courses</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>ARTA/ARTH 4067 Twentieth Century Art or ARTA/ARTH 4077 Contemporary Art</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ARTA 2916 Works in Progress Review</td>
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<td></td>
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<tr>
<td>Semester Total</td>
<td>16</td>
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</tr>
</tbody>
</table>

**Junior Year**

<table>
<thead>
<tr>
<th>Semester</th>
<th>First Semester</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social/Behavioral Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Literature</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>2000-Level Studio Courses</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>4000-Level Art History Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Semester Total</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

**Senior Year**

<table>
<thead>
<tr>
<th>Semester</th>
<th>First Semester</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Science</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>4000-Level Studio Courses</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>4000-Level Art History Courses</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Semester Total</td>
<td>16</td>
<td></td>
</tr>
</tbody>
</table>

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

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

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

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

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

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

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

Students studying for a Bachelor of Arts (B.A.) degree shall be required to demonstrate proficiency in a foreign language equivalent to the completion of two years of college-level work. Students must also complete one 3-credit Non-United States History course. (See the College of Arts and Sciences B.A. degree requirements.) French or German is recommended for art history students.

**Bachelor of Arts Degree (B.A.)**

**Art Major (ARTA)**

**Art History Concentration (HIST)**

**ETSU Academic Proficiency Requirements**

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

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

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

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

**TBR General Education Requirements** ........................................ 41-42 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Critical Reading &amp; Expository Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1020 Critical Thinking &amp; Argumentation</td>
<td>3</td>
</tr>
<tr>
<td>Communication: Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3-4</td>
</tr>
<tr>
<td>Natural Science</td>
<td>8</td>
</tr>
<tr>
<td>HIST 2010 The United States to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2020 The United States Since 1877</td>
<td>3</td>
</tr>
<tr>
<td>ARTA/ARTH 2020 Art History I</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>6</td>
</tr>
<tr>
<td>Social/Behavioral Sciences</td>
<td>6</td>
</tr>
</tbody>
</table>

*See the General Education Core Requirements for options.
Bachelors of Arts Degree Requirements* .......... 9 Credit Hours
Foreign Language ................................................. 6
Non-United States History ....................................... 3
* The Mathematics requirement is fulfilled with the General Education Mathematics.

Art History Major Requirements ................. 9 Credit Hours
ARTA 1110 2-D Design ........................................... 3
ARTA 1140 3-D Design ......................................... 3
ARTA 2010 Art History I ........................................... 3
ARTA 2020 Art History II ......................................... 3
* Satisfies TBR General Education Core Requirements.

Art History Concentration Requirements ....... 27 Credit Hours
One studio course at 3000 or above .................. 3
(ARTA 2001 recommended to fulfill UIT)
Eight 4000-level Art History courses ............... 24
* PHIL 4507 Philosophy of Art will count as an Art History course. No other course in another department will substitute for an Art History course.

Minor Requirements .................. 18-24 Credit Hours
Electives .................................................. 10-16 Credit Hours
Total Hours Required for Degree ........ 120 Credit Hours

Suggested Course Sequence

Freshman Year

First Semester Credit Hours
ENGL 1010 Critical Reading and Expository Writing .................. 3
Communication: Oral Communication ................................. 3
Minor or Elective .............................................. 6
ARTA 1110 2-D Design ........................................... 3
Semester Total .................................................. 15

Second Semester Credit Hours
ENGL 1000 Critical Thinking and Argumentation .................. 3
Humanities: Fine Arts Elective ..................................... 3
Minor or Elective .............................................. 3
ARTA 1140 3-D Design ......................................... 3
ARTA 2020 Art History Survey I .................................. 3
Semester Total .................................................. 15

Sophomore Year

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

Second Semester Credit Hours
Natural Science .................................................. 3
Language Requirement 2XXX or above ......................... 3
Minor or Elective .............................................. 3
4000-Level Art History Course ................................ 3
Literature .................................................................. 3
Semester Total .................................................. 16

Junior Year

First Semester Credit Hours
Mathematics ....................................................... 3-4
4000-Level Art History Course .................................. 3
HIST 2010 The United States to 1877 ......................... 3
Minor or Elective .............................................. 6
Semester Total .................................................. 15-16

Second Semester Credit Hours
Social/Behavioral Sciences ........................................ 3
HIST 2020 The United States since 1877 ..................... 3
Minor or Elective .............................................. 3
4000-Level Art History Course .................................. 3
Semester Total .................................................. 18

Senior Year

First Semester Credit Hours
Non-United States History ....................................... 3
4000-Level Art History Courses ................................. 6
Minor or Elective .............................................. 7
Semester Total .................................................. 16

Second Semester Credit Hours
Natural Science .................................................. 3
4000-Level Art History Course .................................. 3
Minor or Elective .............................................. 3
Semester Total .................................................. 13
Total ............................................................ 120

The B.A. degree in Art History requires a total of approximately 120 credit hours.
It is essential that students work closely with their advisor in selecting classes.
The B.A. Studio Art Students should select ARTA 4067 or 4077 as one of the three 4000-level art history courses required.
The student will have elective hours available and should consult with the advisor about how best to utilize these hours. The B.A. degree in Studio Arts requires a total of approximately 120 credit hours.

Bachelor of Arts Degree (B.A.)
Art Major (ARTA)

Studio Art Concentration (STUO)

ETSU Academic Proficiency Requirements
Writing: Students must complete a minimum of four writing intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.
Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.

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

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

TBR General Education Requirements ...... 41-42 Credit Hours
ENGL 1010 Critical Reading & Expository Writing ............... 3
ENGL 1020 Critical Thinking & Argumentation .................. 3
Communication: Oral Communication* ......................... 3
Mathematics* .................................................. 3-4
Natural Science* ............................................... 8
HIST 2010 The United States to 1877 ......................... 3
HIST 2020 The United States since 1877 ..................... 3
ARTA 2010 Art History I ........................................... 3
Humanities* .................................................. 6
Social/Behavioral Sciences* .................................... 6
* See the General Education Core Requirements for options.

Bachelor of Arts Degree Requirements* .......... 9 Credit Hours
Foreign Language ................................................. 6
Non-United States History ....................................... 3
* The Mathematics requirement is fulfilled with the General Education Mathematics.

Art Major Requirements ...................... 15 Credit Hours
ARTA 1201 Drawing Fundamentals ......................... 3
ARTA 1110 2-D Design ......................................... 3
ARTA 1204 Color Theory ........................................... 3
ARTA 1140 3-D Design ......................................... 3
ARTA 2010 Art History I ........................................... 3
ARTA 2020 Art History II ........................................... 3
* Satisfies TBR General Education Core Requirement.

Studio Art Concentration Requirements ....... 52 Credit Hours
Six 2000-level studio courses .................................. 18
Three 4000-level Art History courses with one selected from either ARTA 4067 or ARTA 4077 ............... 9
Eight 3000 and 4000 level studio courses ....................... 24
One ARTA Studio Elective ...................................... 1
Electives .................................................. 120 Credit Hours
Total Hours Required for Degree ...................... 120 Credit Hours
ETSU Academic Proficiency Requirements

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

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

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

Transfer students may be subject to reduced number of intensives. See ETSU Academic Proficiency Requirements for details.
Minor in Art under the B.S. or B.A.

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

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

Graduate Study in Art

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

Penland Courses

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

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

For a catalog or information, call 828-765-2359 or write to:
Registrar
Penland School of Crafts
Penland, NC 38765

Department of Biological Sciences (BIOL)

Box 70703    Phone: (423) 439-4329

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

Biology Major

In addition to certain required science and math courses, the Standard Track in Biology requires 36 credit hours of approved biology courses; a student choosing this major must also complete a minor in a different field of study. An alternative Concentration Track in biology requires 50 credit hours of biology courses; a specialized alternative curricula that may be followed for a degree in biology; Biochemistry concentration (does not require an additional minor) and Secondary Biology education, which requires a minor in Professional Education.

Advising

Students should consult one of the following advisors when planning their curricula:

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

Credit for the following courses will not apply toward a major or minor in the department:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1000</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 1010/11</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1020/21</td>
<td>4</td>
</tr>
</tbody>
</table>

Bachelor of Science Degree (B.S.)
Biology Major (BIOL)

ETSU Academic Proficiency Requirements

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

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

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

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

TBR General Education Requirements ...... 42 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tr>
<td>ENGL 1010</td>
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<tr>
<td>ENGL 1020</td>
<td>3</td>
</tr>
<tr>
<td>Communication: Oral Communication*</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1910</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1110/11</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1120/21</td>
<td>4</td>
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<td>HIST 2010</td>
<td>3</td>
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<tr>
<td>HIST 2020</td>
<td>3</td>
</tr>
<tr>
<td>Humanities/Fine Arts*</td>
<td>9</td>
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<tr>
<td>Social/Behavioral Sciences*</td>
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</tbody>
</table>

*See the General Education Core Requirements for details.

B.S. Degree Requirements ......................... 3-4 Credit Hours

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</thead>
<tbody>
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<td>CHEM 1110/11</td>
<td>*</td>
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<tr>
<td>CHEM 1120/21</td>
<td>*</td>
</tr>
<tr>
<td>MATH 1530</td>
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<tr>
<td>MATH 1920</td>
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</table>

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

Biology Major Requirements

Standard Track ........................................... 54-56 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>CHEM 1110/11</td>
<td>*</td>
</tr>
<tr>
<td>CHEM 1120/21</td>
<td>*</td>
</tr>
<tr>
<td>CHEM 2010/11</td>
<td>5</td>
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<tr>
<td>CHEM 2020/21</td>
<td>5</td>
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<tr>
<td>PHYS 2010/11</td>
<td>5</td>
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<tr>
<td>PHYS 2020/21</td>
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</table>

Concentration Track ........................... 68-70 Credit Hours

<table>
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<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>CHEM 1110/11</td>
<td>*</td>
</tr>
<tr>
<td>CHEM 1120/21</td>
<td>*</td>
</tr>
<tr>
<td>CHEM 2010/11</td>
<td>5</td>
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<tr>
<td>CHEM 2020/21</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 2010/11</td>
<td>Noncalculus</td>
</tr>
<tr>
<td>PHYS 2020/21</td>
<td>Noncalculus</td>
</tr>
</tbody>
</table>

* See General Education Core Requirements for Biology Majors listed above.
Advanced Biology Electives: 15-18 Credit Hours

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

**Molecular Level:**
- BIOL 3150/51 Cell Biology & Lab ____________________________ 5
- BIOL 4147/57 Biochemistry of Macromolecules and Lab .... 5
- BIOL 4167/77 Biochemistry of Metabolism and Lab ....... 5
- BIOL 4597 Recombinant DNA Laboratory and ..... 4
- BIOL 4647 Molecular Biology ............................................. 6

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

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

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

**Advanced Biology Electives:**

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

**Biology Major, Standard Track.**

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

- Biology Electives for Standard Track ................. 3-6 Credit Hours
- Requirements for minor in other ................. 18 Credit Hours
- Biochemistry Concentration (BIOC)

**Biology Major, Concentration Track.**

Students pursuing the Concentration Track for a major in Biology (requires a minor in another discipline) may select 4-7 credit hours of electives in Biology, producing a total of 50 credit hours in Biology.

- Biology Electives for Concentra. Track ...... 4-7 Credit Hours
- Total Hours Required for Degree ............... 120 Credit Hours

**Suggested Course Sequence**

**Freshman Year**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester</td>
<td>BIOL 1110/11</td>
<td>Biology for Science Majors Lecture I/Lab</td>
<td>4</td>
</tr>
<tr>
<td>First Semester</td>
<td>CHEM 1150/11</td>
<td>General Chemistry Lecture I/Lab</td>
<td>4</td>
</tr>
<tr>
<td>First Semester</td>
<td>ENGL 1010</td>
<td>Critical Reading and Expository Writing</td>
<td>3</td>
</tr>
<tr>
<td>First Semester</td>
<td>MATH 1910</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td><strong>Semester Total</strong></td>
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**Second Semester**

<table>
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<tr>
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<tbody>
<tr>
<td>Second Semester</td>
<td>BIOL 1120/21</td>
<td>Biology for Science Majors Lecture II/Lab</td>
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<td>Second Semester</td>
<td>CHEM 1150/11</td>
<td>General Chemistry Lecture I/Lab</td>
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<td>Second Semester</td>
<td>ENGL 1020</td>
<td>Critical Thinking and Argumentation</td>
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**Sophomore Year**

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<tr>
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<td>Biology for Science Majors Lecture III/Lab</td>
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<td>BIOL 1130/11</td>
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<td>General Physics Lecture I/Lab</td>
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<td>First Semester</td>
<td>MATH 1920</td>
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**Junior Year**

<table>
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<tbody>
<tr>
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<td>BIOL 2100</td>
<td>Biology for Science Majors Lecture IV/Lab</td>
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<td>CHEM 2020/21</td>
<td>General Chemistry Lecture II/Lab</td>
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<tr>
<td>Second Semester</td>
<td>PHYS 2020/21</td>
<td>General Physics Lecture/Lab II</td>
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<td>Second Semester</td>
<td>ENGL 2020</td>
<td>Oral Communication</td>
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**Senior Year**

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<tr>
<td>First Semester</td>
<td>BIOL 3100</td>
<td>General Genetics Lecture</td>
<td>3</td>
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<td>First Semester</td>
<td>CHEM 2030</td>
<td>Organic Chemistry Lecture I/Lab</td>
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<tr>
<td>First Semester</td>
<td>MATH 2040</td>
<td>Probability and Statistics</td>
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<td>First Semester</td>
<td>MATH 2050</td>
<td>Calculus III</td>
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**Bachelor of Science Degree (B.S.)**

**Biology Major**

<table>
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<tr>
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<th>Course Title</th>
<th>Credit Hours</th>
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<tr>
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<td>Second Semester</td>
<td>Minor Requirements</td>
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<tr>
<td>Second Semester</td>
<td>General Electives*</td>
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<tr>
<td><strong>Total</strong></td>
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* The number of General Electives depends on Math and Physics courses selected.

**ETSU Academic Proficiency Requirements**

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

**Oral Communication:** Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.
Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, Using Information Technology, during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

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

**TBR General Education Requirements** ............... 42 Credit Hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ENGL 1010</td>
<td>Critical Reading &amp; Expository Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1020</td>
<td>Critical Thinking &amp; Argumentation</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1110/11</td>
<td>Organic Chemistry I Lecture/Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1120/21</td>
<td>General Chemistry I Lecture/Lab</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1910</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>HIST 1000</td>
<td>United States to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2000</td>
<td>The United States Since 1877</td>
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</tr>
<tr>
<td>HUM 1000</td>
<td>Humanities/Fine Arts</td>
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<tr>
<td>SOC 1000</td>
<td>Social/Behavioral Sciences</td>
<td>6</td>
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*B* For the General Education Core Requirements for Biology Majors listed above

**Biochemistry Concent. Requirements** ............... 65-68 Credit Hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>BIOL 1100/11</td>
<td>General Chemistry I Lecture/Lab</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1120/21</td>
<td>General Chemistry II Lecture/Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1110/11</td>
<td>Organic Chemistry I Lecture/Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 2200/21</td>
<td>Quantitative Analysis Lecture/Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3610</td>
<td>Introduction to Integrated Lab</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 3710</td>
<td>Principles of Physical Chemistry or</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 1010</td>
<td>General Physics I - Noncalculus</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2110/20</td>
<td>Technical Physics - Calculus based</td>
<td>10</td>
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<tr>
<td>BIOL 1110/11</td>
<td>Biology for Sci. Maj. I Lecture/Lab</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1120/21</td>
<td>Biology for Sci. Maj. II Lecture/Lab</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1130/31</td>
<td>Biology for Sci. Maj. III Lecture/Lab</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3100</td>
<td>General Genetics</td>
<td>3</td>
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<tr>
<td>BIOL 3141</td>
<td>Genetics Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 4147/57</td>
<td>Biochemistry of Macromolecules/Lab</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 4167/77</td>
<td>Biochemistry of Metabolism/Lab</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 4220</td>
<td>Advanced Biology Requirements (see below)</td>
<td>6-8</td>
</tr>
</tbody>
</table>

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

**Advanced Concentration Requirements** .............. 3-5 Credit Hours

- BIOL 3150/51 Cell Biology & Lab
- BIOL 4597 Recombinant DNA Laboratory
- BIOL 4647 Molecular Biology
- HSCI 3320/21 General Microbiology and Lab
- HSCI 3540 Immunology
- PHYS 3510 Biophysics

**Advanced Biology Requirements** ............... 6-8 Credit Hours

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

**Organismal Level:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3220</td>
<td>Comparative Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3230</td>
<td>Vertebrate Embryology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3260</td>
<td>Animal Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 4267</td>
<td>Plant Development</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 4277</td>
<td>Neurobiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 4357</td>
<td>Ethology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 4767</td>
<td>Plant Physiology</td>
<td>4</td>
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</tbody>
</table>

**Population Level:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3350</td>
<td>Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3437</td>
<td>Plant Systematics</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3460</td>
<td>Evolution</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3467</td>
<td>Systems Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 4737</td>
<td>Conservation Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 4747</td>
<td>Population Genetics</td>
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**Biodiversity:**

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>BIOL 3410</td>
<td>Vertebrate Zoology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3420</td>
<td>Plant Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3460</td>
<td>Invertebrate Zoology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3480</td>
<td>General Entomology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 4450</td>
<td>Bryophytes, Ferns, and Seed Plants</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 4477</td>
<td>Ornithology</td>
<td>4</td>
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</tbody>
</table>

**General Elective** ............... 6-8 Credit Hours

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

**Program Options:**

- **Biochemistry.** Quillen College of Medicine. Approved students who have completed Biochemistry of Macromolecules (BIOL 4147) and Biochemistry of Metabolism (BIOL 4167) may enroll for one of the courses indicated below during their last semester of coursework.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>BIOL 5010</td>
<td>Biomedical Science I, Molecular Organization of Cells</td>
<td>3</td>
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<tr>
<td>BIOL 5020</td>
<td>Biomedical Science II, Gene Expression</td>
<td>3</td>
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<tr>
<td>BIOL 5030</td>
<td>Biomedical Science III, Cellular Anatomy</td>
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</table>

**Research.** Research is strongly advised for students with good academic records, especially those planning advanced study. Research Orientation (BIOL 3992, 2 hours) is available in the sophomore year. The student should consult with an advisor concerning research opportunities. The following courses are recommended:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>BIOL 3992</td>
<td>Research Orientation</td>
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<tr>
<td>BIOL 4900</td>
<td>Special Problems in Biochemistry</td>
<td>2</td>
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<tr>
<td>BIOL 4910</td>
<td>Research in Biology</td>
<td>1-4</td>
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<tr>
<td>CHEM 4900</td>
<td>Research in Chemistry</td>
<td>1-2</td>
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**Chemistry.** Students may take Physical Chemistry I (CHEM 3750, 3 hours), rather than Principles of Physical chemistry (CHEM 3710, 3 hours). The following additional chemistry courses are available:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>CHEM 3110</td>
<td>Descriptive Inorganic</td>
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<tr>
<td>CHEM 3760</td>
<td>Physical chemistry II</td>
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<tr>
<td>CHEM 4200</td>
<td>Principles of Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 4611, 21, or 31 Advanced Integrated Lab</td>
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**Suggested Course Sequence**

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<tr>
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<th>Freshman Year</th>
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<tbody>
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<td>Credit Hours</td>
</tr>
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<td>BIOL 1110/11</td>
<td>Biology/Lecture/Lab</td>
</tr>
<tr>
<td>CHEM 1110/11</td>
<td>General Chemistry/Lecture/Lab</td>
</tr>
<tr>
<td>MATH 1910</td>
<td>Calculus I</td>
</tr>
<tr>
<td>ENGL 1010</td>
<td>Critical Reading &amp; Expository Writing</td>
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<tr>
<td>Semester Total</td>
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<tr>
<td>Second Semester</td>
<td>Credit Hours</td>
</tr>
<tr>
<td>BIOL 1130/31</td>
<td>Biology/Lecture/Lab</td>
</tr>
<tr>
<td>CHEM 1140/21</td>
<td>General Chemistry/Lecture/Lab</td>
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<td>Calculus II</td>
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<td>ENGL 1020</td>
<td>Critical Reading &amp; Expository Writing</td>
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2006-2007 Undergraduate Catalog

East Tennessee State University
### Sophomore Year

<table>
<thead>
<tr>
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<th>Course</th>
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<tbody>
<tr>
<td>First</td>
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<td>CHEM 2010/11 Organic Chemistry I Lecture/Lab</td>
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<td>PHYS 2010/11 General Physics I Lecture/Lab</td>
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<td></td>
<td>Communication: Oral Communication</td>
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<td>BIOL 3100/41 General Genetics Lecture/Lab</td>
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<td>PHYS 2020/21 General Physics II Lecture/Lab</td>
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### Junior Year

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<tr>
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<td>BIOL 4147/57 Biochemistry of Macromolecules/Lab</td>
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<td>HIST 2010 The United States to 1877</td>
<td>3</td>
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<tr>
<td></td>
<td>Social/Behavioral Sciences</td>
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<tr>
<td></td>
<td>Advanced Biology Course</td>
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<td><strong>Semester Total</strong></td>
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<td>Second</td>
<td>BIOL 4167/77 Biochemistry of Metabolism/Lab</td>
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<td></td>
<td>CHEM 2200/21 Quantitative Analysis Lecture/Lab</td>
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<tr>
<td></td>
<td>HIST 2020 The United States Since 1877</td>
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### Senior Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>Advanced Biology Course</td>
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<tr>
<td></td>
<td>Social/Behavioral Sciences</td>
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<td>General Elective</td>
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<td>Biochemistry Concentration Requirement</td>
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<tr>
<td>Second</td>
<td>BIOL 3170 Principles of Physical Chem</td>
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<td></td>
<td>CHEM 361 Introduction to Integrated Lab</td>
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<td></td>
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### SECONDARY BIOLOGY EDUCATION CURRICULUM

**Teacher Education**

Students interested in pursuing a teacher education program for certification as a science/biology teacher are asked to see both a Biology advisor (Tom Laughlin) and professional advisors in the Office of Student Services, 321 Warf-Pikel, College of Education (Jack Rhoton, Curriculum & Instruction, and Michele Banner, Office of Student Services, 321 Warf-Pikel). The number of required credit hours and course selection in biology varies slightly from the major identified above; however, students must select education as a minor.

**Biology Minor Requirements** 24 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>BIOL 1110/11 Biology I Lecture/Lab</td>
<td>4</td>
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<tr>
<td>BIOL 1120/21 Biology II Lecture/Lab</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1130/31 Biology III Lecture/Lab</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3100 General Genetics</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Biology Electives</td>
<td>9</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1000 Academic Advantage</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 1010/11 Biology I Lecture/Lab</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1020/21 Biology II Lecture/Lab</td>
<td>4</td>
</tr>
</tbody>
</table>

### Bluegrass, Old Time, and Country Music Minor (BLUE)

**Box 70435**  **Phone:** (423) 439-7072 or 7865

**Raymond McLain**  304 Memorial Hall (Brooks Gym)

The Bluegrass, Old Time, and Country Music minor is a 21-hour program, consisting of a 18-hour core and three (3)-credit hours of guided electives chosen in consultation with the Bluegrass advisor. The program is designed for those who wish to work toward a full-time or part-time career in music or for those with other career ambitions but who seek to enrich their lives through music. A student wishing to pursue a minor in Bluegrass, Old Time, and Country Music needs to declare his or her intention at the earliest opportunity in order to facilitate planning.

**Core Requirements** 18 Credit Hours

Select from the following blocks:

**Traditional Didactic Courses** 6 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLUE 2150 American Folk Music</td>
<td>3</td>
</tr>
<tr>
<td>BLUE 3110 Introduction to Bluegrass Music</td>
<td>3</td>
</tr>
<tr>
<td>BLUE 3120 Country Music Then and Now</td>
<td>3</td>
</tr>
<tr>
<td>BLUE 4130 Survey of Contemporary Bluegrass</td>
<td>3</td>
</tr>
<tr>
<td>BLUE 4147/5147 Bluegrass and America’s Music</td>
<td>3</td>
</tr>
<tr>
<td>BLUE 4150 Roots of Bluegrass and Country Music</td>
<td>3</td>
</tr>
<tr>
<td>BLUE 4167/5167 Bluegrass—the First Generation</td>
<td>3</td>
</tr>
</tbody>
</table>

**Practical Skills I** 3 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>BLUE 4210 Music Theory for Acoustic Players</td>
<td>3</td>
</tr>
<tr>
<td>BLUE 4220 Bluegrass Harmony Part Singing</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 1410 Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 1411 Aural Skills I</td>
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</table>

**Practical Skills II** 3 Credit Hours

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>BLUE 2240 Bluegrass Seminar I</td>
<td>1</td>
</tr>
<tr>
<td>BLUE 3240 Bluegrass Seminar II</td>
<td>1</td>
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<tr>
<td>BLUE 4230 Songwriting</td>
<td>1</td>
</tr>
<tr>
<td>BLUE 4240 Bluegrass Seminar III</td>
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**Instrumental Skills** 3 Credit Hours

<table>
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<tr>
<td>BLUE 2310 Guitar I</td>
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<tr>
<td>BLUE 3320 Guitar II</td>
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</tr>
<tr>
<td>BLUE 2400, 3400, 4400 Bluegrass Instrument Series</td>
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**Performing Groups** 3 Credit Hours

<table>
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<th>Course</th>
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</thead>
<tbody>
<tr>
<td>BLUE 2500, 3500, 4500 Bluegrass Band Series</td>
<td>1</td>
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</table>

**Guided Electives** 3 Credit Hours

Any BLUE undergraduate course not counted in the 18-hour core 1-3 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>SPCH 2300 Public Speaking</td>
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<tr>
<td>READ 4147 Basic Storytelling</td>
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</table>

**Total Hours Required for the Minor** 21 Credit Hours

**Prerequisites and Corequisites**

**Prerequisites for Bluegrass Harmony Part Singing:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLUE 4210 Music Theory for Acoustic Players</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 1400 Music Fundamentals</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 1410 Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 1411 Aural Skills I</td>
<td>1</td>
</tr>
</tbody>
</table>

**Corequisites:** ALL students enrolled in a bluegrass band course are required to also enroll in the following:

(a) Individual instruction on at least one (1) instrument during each semester of band.

(b) Vocalists must take Bluegrass Harmony Part Singing at their earliest opportunity.

(c) Bluegrass Seminar at least one semester each year while enrolled in a band.
The Department of Chemistry offers a course of study leading to the Bachelor of Science degree that meets the needs of students who plan a career in chemistry, who plan to teach chemistry in secondary schools, or who need a strong chemistry background for their chosen field. It offers four concentrations designed for different career goals, a minor, and a teacher education program.

Chemistry – This is the recommended concentration for preprofessional students and students preparing for chemically-oriented occupations. This concentration requires a minimum of 33 credit hours of study. A minor is required with this concentration.

Bachelor of Science Degree (B.S.) Chemistry Major (CHEM) Chemistry Concentration (CHEM)

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

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

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

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

TBR General Education Requirements ....................... 42 Credit Hours
ENGL 1010 Critical Reading & Expository Writing .......... 3
ENGL 1020 Critical Thinking & Argumentation .......... 3
Communication: Oral Communication* ......................... 4
MATH 1910 Calculus I* .................................................. 4
CHEM 1110/11 General Chemistry I Lecture/Lab ............... 4
CHEM 1120/21 General Chemistry II Lecture/Lab .......... 4
HIST 2010 The United States to 1877 ......................... 3
HIST 2020 The United States Since 1877 ..................... 3
Humanities/Fine Arts* .................................................. 9
Social/Behavioral Sciences* ........................................ 6

* See the General Education Core Requirements for options.

MATH 1840 or 1850 acceptable for Chemistry concentration.

Chemistry Concentration Requirements ............... 25 Credit Hours
CHEM 1110/11 General Chemistry I Lecture/Lab ............. *
CHEM 1120/21 General Chemistry II Lecture/Lab ........... *
CHEM 2220/21 Quantitative Analysis ......................... 4
CHEM 2010/11 Organic Chemistry I Lecture/Lab ............ 5
CHEM 2020/21 Organic Chemistry II Lecture/Lab .......... 5
CHEM 3710 Principles of Physical Chemistry Lecture or
CHEM 3750 Physical Chemistry .................................... 3
CHEM 3611 Introduction to Integrated Lab ................ 2

Plus an additional six hours of upper division courses in the
Chemistry Department ........................................... 6

* Satisfies TBR General Education Core Requirement.

Additional Required Courses ....................... 8 Credit Hours
PHYS 2010/11 General Physics Non-Calculus I ................ 4
and
PHYS 2020/21 General Physics Non-Calculus II .............. 4

Minor Requirements .................................. 18-27 Credit Hours
Electives ................................................ 18-27 Credit Hours

Suggested Course Sequence

Freshman Year

First Semester Credit Hours
CHEM 1110/11 General Chemistry I Lecture/Lab ............. 4
ENGL 1010 Critical Reading & Expos. Writing ................ 3
HIST 2010 The United States to 1877 ......................... 3
Electives .................................................. 4
Semester Total ............................................. 17

Second Semester Credit Hours
CHEM 1120/21 General Chemistry II Lecture/Lab ............ 4
ENGL 1020 Critical Thinking and Argumentation .......... 3
HIST 2020 The United States Since 1877 ..................... 3
Communication: Oral Communication ......................... 3
Elective .................................................. 3
Semester Total ............................................. 16

Sophomore Year

First Semester Credit Hours
CHEM 2010/11 Organic Chemistry I Lecture/Lab ............. 5
PHYS 2010/11 General Physics Non-Calc. I Lecture/Lab .... 4
Literature .................................................... 3
Minor Requirement ......................................... 3
Semester Total ............................................. 15

Second Semester Credit Hours
CHEM 2020/21 Organic Chemistry II Lecture/Lab .......... 5
CHEM 2220/21 Quantitative Analysis Lecture/Lab .......... 4
PHYS 2020/21 General Physics Non-Calc. II Lecture/Lab ... 4
Humanities/Fine Arts Elective .................................. 3
Semester Total ............................................. 16

Junior Year

First Semester Credit Hours
CHEM 3750 Physical Chemistry I ................................ 3
CHEM 3811 Introduction to Integrated Lab ................. 2
Humanities/Fine Arts Elective .................................. 3
Minor Requirement ......................................... 3
Electives .................................................. 3
Semester Total ............................................. 15

Second Semester Credit Hours
Upper Division Courses in Chemistry ......................... 6
Social/Behavioral Sciences Elective ......................... 3
Minor Requirement ......................................... 3
Electives .................................................. 3
Semester Total ............................................. 15

Senior Year

First Semester Credit Hours
Minor Requirement ......................................... 3
Social/Behavioral Sciences ................................. 3
Minor Requirement ......................................... 3
Electives .................................................. 6
Semester Total ............................................. 15

Second Semester Credit Hours
Minor Requirement ......................................... 3
Electives .................................................. 8
Semester Total ............................................. 11

Total ....................................................... 120

Chemistry Professional – This concentration is for those students who desire a rigorous study in chemistry but whose career goals do not require an American Chemical Society-approved curriculum. A minimum of 45 credit hours is required. A minor is required with this concentration.
Bachelor of Science Degree (B.S.)
Chemistry Major (CHEM)
Chemistry Professional Concentration (CPRO)

ETSU Academic Proficiency Requirements

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

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

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

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

TBR General Education Requirements ................. 42 Credit Hours
ENGL 1010 Critical Reading & Expository Writing ........ 3
ENGL 1020 Critical Thinking & Argumentation .......... 3
Communication: Oral Communication* .................. 3
MATH 1910 Calculus I .............................................. 4
CHEM 1100/11 General Chemistry I Lecture/Lab .............. 4
CHEM 1120/21 General Chemistry II Lecture/Lab ............ 4
HIST 2010 The United States to 1877 .......................... 3
HIST 2020 The United States Since 1877 ....................... 3
Humanities/Fine Arts* ............................................. 9
Social/Behavioral Sciences* ....................................... 6

*See the General Education Core Requirements for options.

Chemistry Professional Requirements .......... 37 Credit Hours
CHEM 1100/11 General Chemistry I Lecture/Lab ............... *
CHEM 1120/21 General Chemistry II Lecture/Lab ............... *
CHEM 2220/2 Organic Quantitative Analysis .................. 4
CHEM 3110 Descriptive Inorganic Chemistry ................ 3
CHEM 2010/11 Organic Chemistry I Lecture/Lab ............... 5
CHEM 2020/21 Organic Chemistry II Lecture/Lab ............. 5
CHEM 3750 Physical Chemistry I .................................. 3
CHEM 3760 Physical Chemistry II ............................... 3
CHEM 3611 Introductory Integrated Laboratory ............... 2
CHEM 4010 Seminar .................................................. 2
CHEM 4110 Advanced Inorganic Chemistry .................. 3
CHEM 4200 Principles of Instrumental Analysis ............... 3

Two Labs, taken in any order, from the following
CHEM 4611 Advanced Integrated Lab-Dynamics ............... 2
CHEM 4621 Advanced Integrated Lab-Structure ................ 2
CHEM 4631 Advanced Integrated Lab-Analytical Tech ........ 2

Also required ............................................. 12-14 Credit Hours
MATH 1910 Calculus I ................................................ 4
MATH 1920 Calculus II ............................................... 4
PHYS 2010/11 General Physics Non-Calculus I and
PHYS 2020/21 General Physics Non-Calculus II or
PHYS 2110 Technical Physics I - Calculus Based and
PHYS 2120 Technical Physics II - Calculus Based ............. 8-10

also required ............................................. 12-14 Credit Hours
MATH 1910 Calculus I ................................................ 4
MATH 1920 Calculus II ............................................... 4
PHYS 2010/11 General Physics Non-Calculus I and
PHYS 2020/21 General Physics Non-Calculus II or
PHYS 2110 Technical Physics I - Calculus Based and
PHYS 2120 Technical Physics II - Calculus Based ............. 8-10

Electives .................................................. 0-11 Credit Hours

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

Suggested Course Sequence

Freshman Year
Credit Hours
First Semester
CHEM 1100/11 General Chemistry I Lecture/Lab ............... 4
MATH 1910 Calculus I ............................................... 4
ENGL 1010 Critical Reading & Expository Writing ............. 3
Communication: Oral Communication* .......................... 3
HIST 2010 The United States to 1877 .......................... 3
Semester Total .................................................. 17
Second Semester
CHEM 1120/21 General Chemistry II Lecture/Lab ............. 4
MATH 1920 Calculus II ............................................... 4
ENGL 1020 Critical Thinking & Argumentation ............... 3
HIST 2020 The United States Since 1877 ....................... 3
Semester Total .................................................. 14

Sophomore Year
Credit Hours
First Semester
CHEM 2010/11 Organic Chemistry I Lecture/Lab ............... 3
PHYS 2010/11 Physics I .............................................. 4
PHYS 2110/21 Quantitative Analysis ......................... 4
PHYS 2120/21 Physics II ............................................ 4
Chemistry Professional Requirements ................. 37 Credit Hours
CHEM 4010 Seminar ................................................ 2
CHEM 4631 Advanced Integrated Lab-Analytical Techniques .................. 2
CHEM 4621 Advanced Integrated Lab-Structure ................ 2
CHEM 4631 Advanced Integrated Lab-Analytical Tech ........ 2

Semester Total .................................................. 16

Junior Year
Credit Hours
First Semester
CHEM 3750 Physical Chemistry I .................................. 3
CHEM 3760 Physical Chemistry II ............................... 3
CHEM 3611 Introductory Integrated Laboratory ............... 2
CHEM 4010 Seminar .................................................. 2
CHEM 4110 Advanced Inorganic Chemistry .................. 3
CHEM 4200 Principles of Instrumental Analysis ............... 3

Minor Requirements ............................................. 6
Semester Total .................................................. 17
Second Semester
CHEM 3760 Physical Chemistry II ............................... 3
CHEM 3780 Organic Chemistry II Lecture/Lab ............... 5
CHEM 3790 Organic Chemistry II Lecture/Lab ............... 5
CHEM 3810 Organic Chemistry II Lecture/Lab ............... 5
CHEM 3820 Organic Chemistry II Lecture/Lab ............... 5
CHEM 3830 Organic Chemistry II Lecture/Lab ............... 5
CHEM 3840 Organic Chemistry II Lecture/Lab ............... 5
CHEM 3850 Organic Chemistry II Lecture/Lab ............... 5
CHEM 3860 Organic Chemistry II Lecture/Lab ............... 5
CHEM 3870 Organic Chemistry II Lecture/Lab ............... 5
CHEM 3880 Organic Chemistry II Lecture/Lab ............... 5
CHEM 3890 Organic Chemistry II Lecture/Lab ............... 5
CHEM 3900 Organic Chemistry II Lecture/Lab ............... 5
CHEM 3910 Organic Chemistry II Lecture/Lab ............... 5
CHEM 3920 Organic Chemistry II Lecture/Lab ............... 5
CHEM 3930 Organic Chemistry II Lecture/Lab ............... 5
CHEM 3940 Organic Chemistry II Lecture/Lab ............... 5
CHEM 3950 Organic Chemistry II Lecture/Lab ............... 5
CHEM 3960 Organic Chemistry II Lecture/Lab ............... 5
CHEM 3970 Organic Chemistry II Lecture/Lab ............... 5
CHEM 3980 Organic Chemistry II Lecture/Lab ............... 5
Semester Total .................................................. 14

Senior Year
Credit Hours
First Semester
CHEM 4750 Physical Chemistry II ............................... 3
CHEM 4760 Organic Chemistry II Lecture/Lab ............... 5
CHEM 4770 Organic Chemistry II Lecture/Lab ............... 5
CHEM 4780 Organic Chemistry II Lecture/Lab ............... 5
CHEM 4790 Organic Chemistry II Lecture/Lab ............... 5
CHEM 4810 Organic Chemistry II Lecture/Lab ............... 5
CHEM 4820 Organic Chemistry II Lecture/Lab ............... 5
CHEM 4830 Organic Chemistry II Lecture/Lab ............... 5
CHEM 4840 Organic Chemistry II Lecture/Lab ............... 5
CHEM 4850 Organic Chemistry II Lecture/Lab ............... 5
CHEM 4860 Organic Chemistry II Lecture/Lab ............... 5
CHEM 4870 Organic Chemistry II Lecture/Lab ............... 5
CHEM 4880 Organic Chemistry II Lecture/Lab ............... 5
CHEM 4890 Organic Chemistry II Lecture/Lab ............... 5
Semester Total .................................................. 14
Second Semester
CHEM 4750 Physical Chemistry II ............................... 3
CHEM 4760 Organic Chemistry II Lecture/Lab ............... 5
CHEM 4770 Organic Chemistry II Lecture/Lab ............... 5
CHEM 4780 Organic Chemistry II Lecture/Lab ............... 5
CHEM 4790 Organic Chemistry II Lecture/Lab ............... 5
CHEM 4810 Organic Chemistry II Lecture/Lab ............... 5
CHEM 4820 Organic Chemistry II Lecture/Lab ............... 5
CHEM 4830 Organic Chemistry II Lecture/Lab ............... 5
CHEM 4840 Organic Chemistry II Lecture/Lab ............... 5
CHEM 4850 Organic Chemistry II Lecture/Lab ............... 5
CHEM 4860 Organic Chemistry II Lecture/Lab ............... 5
CHEM 4870 Organic Chemistry II Lecture/Lab ............... 5
CHEM 4880 Organic Chemistry II Lecture/Lab ............... 5
CHEM 4890 Organic Chemistry II Lecture/Lab ............... 5

Semester Total .................................................. 13

Total .................................................. 120

Significant deviations from this suggested schedule should be discussed with the Chemistry Advisor.

ACS-Approved Chemistry – This concentration is designed for students who intend to follow a career in the field of chemistry or who intend to enter a graduate program in this science. The curriculum is based on the recommendations of, and is approved by, the American Chemical Society (ACS). As such, it is subject to change upon notice from the ACS. A minor is not required with this concentration.

Course Requirements

A minimum of 53 credit hours of study is required. These include all courses required in Chemistry Professional concentration (including all three advanced integrated labs, 4611, 4621, and 4631 may be taken in any order) and Biochemistry; BIOL 4147 or 4167 (note these have a prerequisite of BIOL 1110/11). In addition, three credit hours must be selected from
the list below. Physical Chemistry is recommended or required as a prerequisite to these courses:

**CHEM 4530** Advanced Organic ...........................................3
**CHEM 4817** Intro Indus Chem ...............................................3
**CHEM 4900** Research .........................................................1-3
**CHEM 4957** Special Topics ..................................................3

Bachelor of Science Degree (B.S.) Chemistry Major (CHEM)

**ACS Chemistry Concentration (CACS)**

ETSU Academic Proficiency Requirements

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

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

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

Transfer students may be subject to reduced number of intensives.

See ETSU Academic Proficiency Requirements for details.

TBR General Education Requirements .......................... 42 Credit Hours

- **ENGL 1010** Critical Reading & Expository Writing ........ 3
- **ENGL 1020** Critical Thinking & Argumentation ............ 3
- Communication: Oral Communication*............................ 3
- **MATH 1910** Calculus I ....................................................... 3
- **CHEM 1100/11** General Chemistry I Lecture/Lab ............ 4
- **CHEM 1120/21** General Chemistry II Lecture/Lab .......... 4
- **HIST 2010** The United States to 1877 ......................... 3
- **HIST 2020** The United States Since 1877 ................. 3
- Humanities/Fine Arts* ....................................................... 9
- Social/Behavioral Sciences* .............................................. 6

*See the General Education Core Requirements for options.

**ACS Requirements** .................................................. 47 Credit Hours

- **CHEM 1100/11** General Chemistry I Lecture/Lab .......... 4
- **CHEM 1120/21** General Chemistry II Lecture/Lab ......... 4
- **CHEM 2220/21** Quantitative Analysis ......................... 6
- **CHEM 3110** Descriptive Inorganic Chemistry .............. 3
- **CHEM 2010/11** Organic Chemistry I Lecture/Lab .......... 5
- **CHEM 2020/21** Organic Chemistry II Lecture/Lab ......... 5
- **CHEM 3750/60** Physical Chemistry ......................... 6
- **CHEM 3611** Introductory Integrated Laboratory ............ 2
- **CHEM 4010** Seminar ..................................................... 2
- **CHEM 4110** Advanced Inorganic .................. 3
- **CHEM 4200** Principles of Instrumental Analysis .......... 3
- **CHEM 4611** Advanced Integrated Lab-Dynamics** ....... 2
- **CHEM 4621** Advanced Integrated Lab-Structure** ....... 2
- **CHEM 4631** Advanced Integrated Lab-Analy. Tech** ...... 2
- **BIOL 4147/57** Biochemistry of Macromolecules Lecture/Lab or
  **BIOL 4167/77** Biochemistry of Metabolism Lecture/Lab .... 5

Three (3) credit hours selected from the following:

- **CHEM 4530** Advanced Organic Chemistry ..................3
- **CHEM 4817** Introduction to Industrial Chemistry ..........3
- **CHEM 4900** Research ..................................................1-3
- **CHEM 4957** Special Topics .........................................3

**Also required** .......................................................... 12-14 Credit Hours

- **MATH 1910** Calculus I ................................................. 4
- **MATH 1920** Calculus II ................................................. 4
- **PHYS 2010/11** General Physics Non-Calculus I ........... 4
- **PHYS 2020/21** General Physics Non-Calculus II ......... 4
- **PHYS 2110** Technical Physics I - Calculus Based .......... 4
- **PHYS 2120** Technical Physics II - Calculus Based ...... 8-10

* Satisfies TBR General Education Core Requirement.

**Electives** .............................................................. 17-19 Credit Hours

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

**Suggested Course Sequence**

**Freshman Year**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td></td>
</tr>
</tbody>
</table>
| CHEM 1100/11 General Chemistry I Lecture/Lab ................. 4
| MATH 1910 Calculus I ................................................ 4
| ENGL 1010 Critical Reading & Expository Writing .......... 3
| Communication: Oral Communication*............................ 3
| HIST 2010 The United States to 1877 ......................... 3
| Semester Total .................................................... 17

**Second Semester**

<table>
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<tr>
<th>Credit Hours</th>
</tr>
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<tr>
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<tr>
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</tr>
<tr>
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<tr>
<td>Semester Total .................................................... 15</td>
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**Sophomore Year**

<table>
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<tr>
<th>Semester</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>First</td>
<td></td>
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</tbody>
</table>
| CHEM 1100/11 General Chemistry I Lecture/Lab ................. 4
| MATH 1920 Calculus II .............................................. 4
| ENGL 1020 Critical Thinking & Argumentation .......... 3
| HIST 2020 The United States Since 1877 .................... 3
| Semester Total .................................................... 14 |

**Junior Year**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
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<td></td>
</tr>
</tbody>
</table>
| CHEM 3110 Descriptive Inorganic Chemistry ................. 3
| CHEM 3570 Physical Chemistry .................................. 3
| CHEM 3611 Introductory Integrated Laboratory .......... 2
| CHEM 4010 Seminar ................................................... 2
| CHEM 4110 Advanced Inorganic .................. 3
| CHEM 4200 Principles of Instrumental Analysis .......... 3
| CHEM 4611 Advanced Integrated Lab-Dynamics** ....... 2
| CHEM 4621 Advanced Integrated Lab-Structure** ....... 2
| CHEM 4631 Advanced Integrated Lab-Analy. Tech** ...... 2
| Total Semester ..................................................... 17 |

**Senior Year**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td></td>
</tr>
</tbody>
</table>
| CHEM 4200 Principles of Instrumental Analysis .......... 3
| CHEM 4621 Advanced Integrated Lab-Structure .......... 3
| CHEM 4631 Advanced Integrated Lab-Analytical Techniques .... 2
| BIOL 4147/57 Biochem. of Macromolecules Lecture/Lab or
  BIOL 4167/77 Biochem. of Metabolism Lecture/Lab .......... 5
| Semester Total ..................................................... 13 |

**Second Semester**

<table>
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<tr>
<th>Credit Hours</th>
</tr>
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<tbody>
<tr>
<td>3</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>7</td>
</tr>
<tr>
<td>Semester Total ..................................................... 14</td>
</tr>
</tbody>
</table>

**Total** ............................................................. 120 Credit Hours

* Satisfies TBR General Education Core Requirement.

**Note:** Three digits may be taken in any order.
Biochemistry Concentration – This is a joint concentration with the Department of Biological Sciences (College of Arts and Sciences) and the Department of Biochemistry (Quillen College of Medicine). The students may major in either biology or chemistry, and coursework is required in both departments. The Chemistry Department's Biochemistry Concentration is approved by the American Chemical Society (ACS) and as such it is subject to change upon notice from the ACS. The student should consult frequently with an advisor to ensure completion in a judicious manner. The biology advisors are Dr. Lee Pike (pikel@etsu.edu) and Dr. Cecilia McIntosh (mcintosc@etsu.edu). The chemistry advisor is Dr. Richard Kopp (kopp@etsu.edu).

A minor is not required with this concentration.

**Bachelor of Science Degree (B.S.)**

**Chemistry Major (CHEM)**

**Biochemistry Concentration (BIOC)**

ETSU Academic Proficiency Requirements

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

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

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

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

### TBR General Education Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ENGL 1010</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 1020</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1910</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1100/11</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1120/21</td>
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</tr>
<tr>
<td>HIST 2010</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2020</td>
<td>3</td>
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<tr>
<td>Humanities/Fine Arts*</td>
<td>9</td>
</tr>
<tr>
<td>Social/Behavioral Sciences*</td>
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</tr>
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</table>

*For the General Education Core Requirements for degrees.

### Biochemistry Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>BIOL 1110/11</td>
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</tr>
<tr>
<td>BIOL 1120/21</td>
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</tr>
<tr>
<td>BIOL 1130/31</td>
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<td>BIOL 3100</td>
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<td>BIOL 3141</td>
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<td>BIOL 4597</td>
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<td>BIOL 4147/57</td>
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<tr>
<td>BIOL 4167/77</td>
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</tr>
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<td>CHEM 1110/11</td>
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</tr>
<tr>
<td>CHEM 1120/21</td>
<td>5</td>
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<td>CHEM 2020/21</td>
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<tr>
<td>CHEM 2220/21</td>
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<td>CHEM 3110</td>
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<td>CHEM 3211</td>
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<tr>
<td>CHEM 4611</td>
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<td>CHEM 4621</td>
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<tr>
<td>CHEM 4631</td>
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### BIOC Program Requirements

<table>
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<tr>
<td>MATH 1910</td>
<td>Calculus I .................. *</td>
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<tr>
<td>MATH 1920</td>
<td>Calculus II ..................</td>
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<tr>
<td>PHYS 2010/11</td>
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</tr>
<tr>
<td>PHYS 2020/21</td>
<td>General Physics Non-Calculus II or</td>
</tr>
<tr>
<td>PHYS 2110</td>
<td>Technical Physics I - Calculus Based and</td>
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<tr>
<td>PHYS 2210</td>
<td>Technical Physics II - Calculus Based</td>
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<td>Electives</td>
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### Total Hours Required for Degree

120 Credit Hours

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<tr>
<th>Suggested Course Sequence</th>
<th>Freshman Year</th>
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<tr>
<td>BIOL 1110/11 Biology for Science Majors I/II</td>
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<td>CHEM 1100/11 General Chemistry I/Lecture/Lab</td>
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<td>MATH 1910 Calculus I</td>
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<tr>
<td>CHEM 1100/11 General Chemistry I/Lecture/Lab</td>
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<tr>
<td>MATH 1910 Calculus I</td>
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<tr>
<td>BIOL 1110/11 Biology for Science Majors I/II</td>
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<tr>
<td>CHEM 1100/11 General Chemistry I/Lecture/Lab</td>
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<tr>
<td>MATH 1910 Calculus I</td>
<td>4</td>
<td></td>
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<tr>
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<tr>
<td>BIOL 1110/11 Biology for Science Majors I/II</td>
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<tr>
<td>CHEM 1100/11 General Chemistry I/Lecture/Lab</td>
<td>4</td>
<td></td>
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<tr>
<td>MATH 1910 Calculus I</td>
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<tr>
<td>ENGL 1010 Critical Reading and Expository Writing</td>
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<tr>
<td>Semester Total</td>
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<tr>
<td>BIOL 1110/11 Biology for Science Majors I/II</td>
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</tr>
<tr>
<td>CHEM 1100/11 General Chemistry I/Lecture/Lab</td>
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<td></td>
</tr>
<tr>
<td>MATH 1910 Calculus I</td>
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<tr>
<td>ENGL 1010 Critical Reading and Expository Writing</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Semester Total</td>
<td>16</td>
<td></td>
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</tbody>
</table>
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:

- **BIOC 3992** Research Orientation ................................. 2
- **BIOC 4900** Spec. Problems in Biochemistry .................. 1-5
- **BIOC 4900** Independent Study ................................ 1-4
- **CHEM 4900** Research in Chemistry ......................... 1-3

**Minor** - The chemistry minor consists of a minimum of 26 credit hours of study. General Chemistry (1110-11 and 1120-21) eight hours; plus an 18-hour selection of basic courses offered by the Department of Chemistry (other than 1000 or 1030).

**Teacher Education** - Students interested in pursuing a teacher education program for certification as a teacher are asked to see the area advisor in the Department of Chemistry AND the professional advisor in the Office of Student Services, 321 Warf-Pickel, College of Education. Please refer to the section on “Admission to Teacher Education” for basic admission requirements in the Department of Education section of this catalog.

**Pre-Teacher Education** - Declaration of Intent – All ETSU students desiring to complete a teacher education or other public school licensure program (for initial licensure, add-on endorsement, or advanced study in education) must file a Declaration of Intent in the Office of Student Services, 321 Warf-Pickel Hall. The Declaration of Intent should be filed before 30 credit hours of coursework have been completed or, in the case of transfer and post-baccalaureate students, in the first semester at ETSU. Delay or failure to file the Declaration of Intent may result in incomplete advisement. Students who have not filed the Declaration of Intent will not be considered for admission to teacher education and may be ineligible to enroll in many professional education courses.

**Professional Education Requirements for Secondary and K-12 Students** — The professional education requirements for secondary and K-12 students are met by completing the minor in education (refer to the Education Minor section in this catalog for a list of required courses) and the professional semester (CUAI 4580-Student Teaching). Students are required to submit a professional portfolio for admission to teacher education.

**Cooperative Education** – The Department of Chemistry actively participates in the university’s cooperative education program. Positions are normally available for chemistry majors each semester at a number of industrial and government locations.

**Graduate Study** – The Department of Chemistry offers a major and minor in graduate study. Further information on graduate programs is contained in the Graduate Catalog.

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**Department of Communication**

**Box 70667**  
**Phone: (423) 439-4491**  
**Web address: www.etsu.edu/cas/comm**

**Accreditation by:** Accrediting Council on Education in Journalism and Mass Communications

The Department of Communication has the following objectives: to provide professional preparation for persons seeking careers in communication, to provide leadership for professionals now engaged in the practice of communication, to provide preprofessional programs and supporting coursework for students completing programs in other fields, and to increase public understanding of the value of freedom of communication in a democratic society.

The Department of Communication offers a B.A./B.S. with a major in four mass communications concentrations — advertising, broadcasting (sequences in management, news and production/performance), journalism, and public relations.

In addition, the department offers a B.A./B.S. with a major in two speech concentrations — speech communication and theatre. A sequence in teaching is offered for both division concentrations.

A minor is required of all students.

For the baccalaureate degree, 120 credit hours of credit must be earned. In addition to meeting all department requirements, majors must meet the College of Arts and Sciences requirements for B.A. and B.S. degrees. Students earning the B.S. may select the social and behavioral sciences concentration.

**Speech Communication** — The speech communication major prepares students for work in a broad range of fields that require the ability to work with diverse populations and lead others, articulate ideas and arguments effectively, and critically analyze messages. The skills garnered from the speech major easily translate into careers in law, government, health administration, patient educator, family/patient advocate, social service, the ministry, public relations, sales, training and development, management, human resources, community liaison, customer relations, and the business world at large. Speech majors are natural candidates for work in social justice, civic engagement, and diversity/equality efforts. Students will develop their skills as rhetorical critics and social scientists in the study and understanding of human communication. The department also provides a teacher education major in speech communication that requires 33 credit hours and a teaching minor that requires 24 credit hours.

**Theatre** — The ETSU Division of Theatre produces four productions at two venues, plus at least one student-directed showcase production, per school year. In addition, Theatre, along with its community partners, produces a professional summer theatre company.

All auditions for ETSU Theatre productions are open to all students, faculty, staff, and community members. Academic credit may be earned for working on any ETSU main-stage or studio theatre productions. Those interested in performing or working as a stage manager can receive Practicum credit. Those interested in technical theatre (construction and/or running crews) or design can receive Theatre Laboratory credit. In the summer, students can receive “Summer Theatre Performance” credit.

For more information, visit our web site at www.etsu.edu/theatre.

**Mass Communications** — The concentrations in advertising and broadcasting consist of prescribed sequences of 33 credit hours of coursework. The journalism and public relations concentrations require 36 credit hours in mass communications, and public relations also requires 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.
East Tennessee State University

No more than 12 credit hours of transfer credit may be applied to the requirements in mass communications concentrations.

Specialized minors of 21 credit hours may be designed for individual students in advertising and broadcasting with the prior approval of the department. The journalism minor consists of 24 credit hours of prescribed coursework. No minor is available in public relations.

Students must consult regularly with a departmental advisor to avoid problems in scheduling. For other problems, see one of the career advisors listed below.

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

**Communication Major (MCOM)**

**ETSU Academic Proficiency Requirements**

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

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

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

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

**TBR General Education Requirements** .... 41-42 Credit Hours

<table>
<thead>
<tr>
<th>Sequence</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Critical Reading and Expository Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1020 Critical Thinking and Argumentation</td>
<td>3</td>
</tr>
<tr>
<td>Communication: Oral Communication*</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3-4</td>
</tr>
<tr>
<td>Natural Sciences*</td>
<td>9</td>
</tr>
<tr>
<td>HIST 2010 The United States to 1877</td>
<td>3</td>
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<tr>
<td>HIST 2020 The United States Since 1877</td>
<td>3</td>
</tr>
<tr>
<td>Humanities/Fine Arts*</td>
<td>9</td>
</tr>
<tr>
<td>Social/Behavioral Sciences*</td>
<td>6</td>
</tr>
</tbody>
</table>

*For the General Education Core Requirements for options.

**Communications Major Requirements** .... 33-38 Credit Hours

**B.S. Requirements** ......................... 8 Credit Hours

Select MATH 1850 or 1910, including experience in the differential and integral calculus ......................... *

8 credit hours of single laboratory science in addition to General Education Core Natural Science ............ 8

*Satisfies TBR General Education Core Requirement.

OR

**B.S. with a concentration in Social and Behavioral Sciences Requirements** .......... 12 Credit Hours

MATH 1530 Prob & Stats - Noncalculus ......................... *

8 credit hours of single laboratory science ....................... *

3 credit hours from each of the following areas: .......... 12
(1) Social Statistics
(2) Reasoning and Argumentation
(3) Research Design for Social Science (subject to departmental restrictions)
(4) Microcomputer Skills

*Satisfies TBR General Education Core Requirement.

**B.A. Requirements** ........................................... 9-10 Credit Hours

Select MATH 1530, 1840, or 1910 ................................. 3-4

Two courses of a single language at or above the 2000 level ... 6

1 course of Non-U.S. History ........................................ 3

**Minor** ..................................................... 18-27 Credit Hours

Electives ............................................. 1-20 Credit Hours

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

**Course Requirements for Mass Communications Majors**

**Advising Concentration** ......................... 33 Credit Hours

<table>
<thead>
<tr>
<th>Sequence</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>MCOM 1030 Introduction to Mass Communications</td>
<td>3</td>
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<tr>
<td>ADVR 2070 Advertising Principles</td>
<td>3</td>
</tr>
<tr>
<td>ADVR 2070 Advertising Graphics</td>
<td>3</td>
</tr>
<tr>
<td>PUBL 2700 Introduction to Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>ADVR 3240 Advertising Media Planning</td>
<td>3</td>
</tr>
<tr>
<td>ADVR 3250 Advertising Copy and Layout</td>
<td>3</td>
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<tr>
<td>ADVR 3270 Advertising Campaign Management</td>
<td>3</td>
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<tr>
<td>MCOM 4037 Communications Law</td>
<td>3</td>
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<tr>
<td>ADVR 4080 Advertising Internship or Elective approved by advisor</td>
<td>3</td>
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<tr>
<td>ADVR 4250 Advertising Agency Management</td>
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**Broadcasting Concentration** ......................... 33 Credit Hours

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<tr>
<th>Sequence</th>
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<tbody>
<tr>
<td>MCOM 1030 Intro. to Mass Communications</td>
<td>3</td>
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<tr>
<td>RTVF 2600 Survey of Broadcasting</td>
<td>3</td>
</tr>
<tr>
<td>RTVF 2600/4604 Radio/TV Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>ADVR 3260 Radio/TV Advertising</td>
<td>3</td>
</tr>
<tr>
<td>RTVF 3651 Radio Production</td>
<td>3</td>
</tr>
<tr>
<td>RTVF 3661 Television Production</td>
<td>3</td>
</tr>
<tr>
<td>RTVF 3671 Broadcast Programming</td>
<td>3</td>
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<tr>
<td>MCOM 4037 Communications Law</td>
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<tr>
<td>RTVF 4690 Broadcast Management</td>
<td>3</td>
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<tr>
<td>MCOM Electives approved by advisor</td>
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**Broadcast News Sequence**

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<tr>
<td>MCOM 1030 Introduction to Mass Communications</td>
<td>3</td>
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<tr>
<td>RTVF 2600 Survey of Broadcasting</td>
<td>3</td>
</tr>
<tr>
<td>RTVF 3600 Radio/TV News</td>
<td>3</td>
</tr>
<tr>
<td>RTVF 3602 Video/Film Techniques</td>
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</tr>
<tr>
<td>RTVF 3661 Television Production</td>
<td>3</td>
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<tr>
<td>MCOM 4037 Communications Law</td>
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</tr>
<tr>
<td>RTVF 4600 Radio/TV Reporting and Editing</td>
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</tr>
<tr>
<td>RTVF 4690 Broadcast Management</td>
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<tr>
<td>MCOM Electives approved by advisor</td>
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**Broadcast Production/Performance Sequence**

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<tr>
<td>RTVF 2600 Survey of Broadcasting</td>
<td>3</td>
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<tr>
<td>RTVF 2600/4604 Radio/TV Laboratory</td>
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</tr>
<tr>
<td>RTVF 2630 Writing for Radio/TV</td>
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<td>RTVF 3602 Video/Film Techniques</td>
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<td>RTVF 3640 Broadcast Performance</td>
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<tr>
<td>RTVF 4690 Broadcast Management</td>
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<td>MCOM Elective approved by advisor</td>
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**Journalism Concentration** ......................... 36 Credit Hours

<table>
<thead>
<tr>
<th>Sequence</th>
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<tbody>
<tr>
<td>MCOM 1030 Intro. to Mass Communications</td>
<td>3</td>
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<tr>
<td>JOUR 2050 History and Issues of Journalism</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 2120 Writing for Print Media I</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 2130 Writing for Print Media II</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 3130 In-Depth Reporting</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 3150 Copy Editing</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 3160 Newspaper Design</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 3301 Photographic Journalism</td>
<td>3</td>
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</tbody>
</table>
MCOM 4037 Communications Law ......................... 3
JOUR 4107 Reporting Public Affairs ....................... 3

One of the following craft courses ........................................ 3
JOUR 3120 Opinion Writing
JOUR 3350 Advanced Photojournalism
JOUR 4080 Journalism Internship
JOUR 4957 Topics in Journalism

One of the following conceptual courses ............................. 3
MCOM 3070 Mass Media and Society
MCOM 4007 Seminar in Mass Communications

Minor — Journalism Concentration ................................. 24 Credit Hours
JOUR 2050 History and Issues of Journalism ................. 3
JOUR 2120 Writing for Print Media I ......................... 3
JOUR 2130 Writing for Print Media II ....................... 3
JOUR 3150 Copy Editing ........................................ 3
JOUR 3160 Newspaper Design .................................. 3
MCOM 4037 Communications Law ......................... 3

Two of the following .................................................... 6
JOUR 3120 Opinion Writing
JOUR 3130 In-Depth Reporting
JOUR 3301 Photojournalism
JOUR 4107 Reporting Public Affairs
JOUR 4957 Topics in Journalism

Public Relations Concentration ................................. 42 Credit Hours
MCOM 1030 Intro. to Mass Communications................ 3
PUBR 2700 Introduction to Public Relations ................ 3
JOUR 2120 Writing for Print Media I ....................... 3
PUBR 2770 Writing for Public Relations .................... 3
RTVF 2630 Writing for Radio/TV ............................... 3
JOUR 3150 Copy Editing ........................................ 3
ADVR 3240 Advertising Principles ............................. 3
RTVF 3602 Video/Film Techniques ......................... 3
PUBR 3770 Public Relations Publications ................ 3
MCOM 4037 Communications Law ......................... 3
PUBR 4730 Public Relations Practices ..................... 3
PUBR 4080 Public Relations Internship .................... 3

Additional courses required:
SPCH 3390 Persuasion ........................................ 3
SPCH 4357 Communication in Organizations ............ 3
or
SPCH 4346 Business & Professional Communication .... 3

Speech Major (SPCH)

ETSU Academic Proficiency Requirements

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

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

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

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

TBR General Education Requirements .......................... 41-42 Credit Hours
ENGL 1010 Critical Reading and Expository Writing .... 3
ENGL 1020 Critical Thinking and Argumentation ........ 3
Communication: Oral Communication* .................... 3
Mathematics* .................................................. 3-4

Natural Sciences* .................................................. 8
HIST 2010 The United States to 1877 ..................... 3
HIST 2020 The United States Since 1877 ................. 3
Humanities/Fine Arts* ...................................... 9
Social/Behavioral Sciences* .................................. 6
*See the General Education Core Requirements for details.

Speech Major Requirements ....................................... 36-38 Credit Hours

B.S. Requirements .................................................. 8 Credit Hours
Select MATH 1850 or 1910, including experience in the
differential and integral calculus ................................ 8
8 credit hours of single laboratory in addition to
General Education Core Natural Science ................... 8

B.S. with a concentration in Social and
Behavioral Sciences Requirements .......................... 12 Credit Hours
MATH 1530 Prob & Stats - Noncalculus .................. *
8 credit hours of single laboratory science .............. *
3 credit hours from each of the following areas: ............ 12
(1) Social Statistics
(2) Reasoning and Argumentation
(3) Research Design for Social Science
(subject to departmental restrictions)
(4) Microcomputer Skills
*See the General Education Core Requirement.

B.A. Requirements .................................................. 9 Credit Hours
Select MATH 1530, 1840, or 1910 ......................... *
2 courses of a single language at or above the 2000 level ... 6
1 course of Non-U.S. History ................................. 3

Minor Requirements ........................................ 18-26 Credit Hours
Election .......................................................... 5-17 Credit Hours

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

Course Requirements for
Speech Majors

Speech Concentration ............................................... 36-38 Credit Hours
SPCH 2330 Communication Theory ......................... 3
SPCH 3300 Analysis and Criticism: Qualitative ......... 3
or
SPCH 3330 Communication Research: Quantitative .... 3
SPCH 3310 Interpersonal 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 ....... 15-17

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
(Elective must be at the 3000 level or above) ....... 3

2006-2007 Undergraduate Catalog
Theatre Minor Requirements .......... 21 Credit Hours

**Theatre Minor Requirements**

THEA 1520 Stagecraft I ................. 3
THEA 1530 Stagecraft II .................. 3
THEA 2510 Acting I ......................... 3
THEA 2530 Dramatic Structure .......... 3
THEA 3520 Theatre History I ........... 3
THEA 3525 Theatre History II .......... 3

One credit hour chosen from: ......................... 1
THEA 3515 Theatre Movement

**Six credit hours chosen from:** ............... 6
THEA 3330 Scenic Design
THEA 3335 Lighting Design
THEA 3500 Voice and Diction
THEA 3530 Play Direction

**Three credit hours chosen from:** ............... 3
THEA 2525 Makeup
THEA 3510 Acting II
THEA 4637 Theatre Management

**Five credit hours chosen from:** ............... 5
THEA 1800 Theatre Laboratory
THEA 2605 Theatre Practicum
THEA 2800 Theatre Laboratory
THEA 3800 Theatre Laboratory
THEA 4607 Theatre Practicum
THEA 4800 Theatre Laboratory

**Three credit hours chosen from:** ............... 3
THEA 3400 Acting for the Camera
THEA 3512 The Audition Process
THEA 4527 Advanced Scenographic Design
THEA 4547 Dramatic Theory and Criticism
THEA 4857 Period Acting Styles

THEA Theatre electives approved by advisor .......... 3

Speech Minor Course Requirements

Seven speech courses (not including Speech 1300), selected in consultation with the Speech Division director and formally approved by the speech faculty, are required. Approval for the total of 21 credit hours must be obtained before 15 hours of coursework in speech have been completed.

**Theatre Minor Course Requirements**

**Theatre Minor Requirements** .......... 21 Credit Hours

**Theatre Minor Requirements**

THEA 1520 Stagecraft I ................. 3
THEA 1530 Stagecraft II .................. 3
THEA 2510 Acting I ......................... 3
THEA 2530 Dramatic Structure .......... 3

**Three credit hours chosen from:** ............... 3
THEA 3520 Theatre History I
THEA 3525 Theatre History II
THEA 3535 Musical Theatre History

**Six credit hours chosen from:** ............... 6
THEA 1800 Theatre Laboratory
THEA 2605 Theatre Practicum
THEA 2800 Theatre Laboratory
THEA 3800 Theatre Laboratory
THEA 4607 Theatre Practicum
THEA 4800 Theatre Laboratory
THEA 2500 Creative Drama
THEA 2525 Stage Makeup
THEA 2540 Theatre Design Basics
THEA 3330 Scenic Design
THEA 3335 Lighting Design
THEA 3345 Costume Design

**Speech Concentration Teacher Education**

Students interested in pursuing a teacher education program for certification as a speech communication teacher must consult regularly with two advisors — one in the College of Arts and Sciences AND one in the Office of Student Services, 321 Warf-Pickel Hall, College of Education.

**Theatre Concentration Teacher Education**

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**Suggested Curriculum Guide**

Bachelor of Science Degree, Social and Behavioral Sciences Option

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East Tennessee State University

Theatre Concentration

Theatre Concentration ............................................. 36 Credit Hours
THEA 1530 Stagecraft II ........................................... 3
THEA 2510 Acting I ................................................. 3
THEA 2530 Dramatic Structure ................................. 3
THEA 3520 Theatre History I .................................... 3
THEA 3525 Theatre History II ................................... 3

One credit hour chosen from: .............................. 1
THEA 3515 Theatre Movement

**Six credit hours chosen from:** ....................... 6
THEA 3330 Scenic Design
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THEA 2525 Makeup
THEA 3510 Acting II
THEA 4637 Theatre Management

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THEA Theatre electives approved by advisor .......... 3

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Theatre Minor Course Requirements

Theatre Minor Requirements .......... 21 Credit Hours

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THEA 1520 Stagecraft I ................. 3
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THEA 3400 Acting for the Camera I
THEA 3530 Play Direction
THEA 3435 Acting for the Camera II
THEA 3500 Voice and Diction
THEA 3510 Acting II
THEA 3512 The Audition Process
THEA 3515 Theatre Movement
THEA 3625 Advanced Stage Makeup
THEA 4417 Teaching Theatre Grades K-12
THEA 4527 Advanced Scenographic Design
THEA 4537 Advanced Play Direction
THEA 4557 Playwriting
THEA 4637 Theatre Management
THEA 4647 Theatre Architecture and Design
THEA 4707 Theatre Internship
THEA 4857 Period Acting Styles
THEA 4867 Summer Theatre Performance
THEA 4900 Independent Studies
THEA 4957 Special Topics in Theatre
PHED 2125 Jazz Dance I
PHED 2150 Tap Dance
PHED 2230 Fencing
ENGL 3030 Drama
ENGL 4030 Modern Drama
ENGL 4200 Shakespeare and His Age
RTVF 3640 Broadcast Performance
READ 4147 Basic Storytelling

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Suggested Curriculum Guide

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## Suggested Curriculum Guide for the Bachelor of Arts Degree

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### Sophomore Year

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### Suggested Curriculum Guide for the Bachelor of Science Degree

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<tr>
<td>Total</td>
<td>120</td>
</tr>
</tbody>
</table>

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2006-2007 Undergraduate Catalog
Department of Criminal Justice and Criminology (CJCR)

Box 70555

Phone (423) 439-5346

Web Address: www.etsu.edu/crimjust

Program Objectives – The criminal justice and criminology program of East Tennessee State University seeks to accomplish four major objectives:

1. To develop a critical understanding of crime and the role and function of the criminal justice system in a democratic society.
2. To provide courses of instruction that complement the education received by students in related disciplines.
3. To prepare students for professional service in the criminal justice system.
4. To provide an opportunity for persons currently serving in criminal justice professions to advance their level of education.

The criminal justice and criminology curriculum is highly interdisciplinary, encompassing the study of law, the social and behavioral sciences, and other academic areas. Consistent with the above objectives, the curriculum seeks a careful balance of theoretical inquiry and applied knowledge and features a core curriculum that all majors are required to complete.

The Department of Criminal Justice and Criminology offers the Bachelor of Science degree in Criminal Justice and Criminology, the Bachelor of Arts degree in Criminal Justice and Criminology, and the Master of Arts degree in Criminal Justice and Criminology.

Departmental Honors Program

The Criminal Justice Honors-in-Discipline program will provide students with an additional opportunity to reach their full academic potential. Students who are accepted into the honors program will enroll in the same courses as other students, but will be required to complete extra assignments (e.g., papers, readings, projects) in their classes. Students will also be required to write a Senior Honors Thesis. Out-of-state tuition waivers will be available for students accepted into the program and some Academic Performance Scholarships may be available for Tennessee residents only.

The minimum requirements for application to the honors program are as follows:

Entering Freshmen:
High School GPA of 3.2 or a minimum ACT composite score of 25

Entering after Freshman year:
Overall GPA of 3.2, a Criminal Justice GPA of 3.5 and have earned no more than 60 credit hours

Transfer Students:
Overall GPA of 3.5

Students will also be asked to submit a personal statement and two letters of reference with their application. For further information or an application, please contact:

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

Criminal Justice and Criminology (CJCR)

ETSU Academic Proficiency Requirements

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

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

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

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

TBR General Education Requirements ........... 41-42 Credit Hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Critical Reading and Expository Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1020</td>
<td>Critical Thinking and Argumentation</td>
<td>3</td>
</tr>
<tr>
<td>Communication: Oral Communication*</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Mathematics*</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences*</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>HIST 2010</td>
<td>The United States to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2020</td>
<td>The United States Since 1877</td>
<td>3</td>
</tr>
<tr>
<td>Humanities/Fine Arts*</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Social/Behavioral Sciences*</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

*See the General Education Core Requirements for details.

Criminal Justice and Criminology

Major Requirements ............................................. 42 Credit Hours

B.S. Requirements ............................................. 8 Credit Hours

Select MATH 1850 or 1910, including experience in the differential and integral calculus .................. *

8 credit hours of single laboratory science in addition to General Education Core Natural Science ........ 8

* Satisfies TBR General Education Core Requirement.

OR

B.S. with a concentration in Social and Behavioral Sciences Requirements ........... 3 Credit Hours

MATH 1530 Prob & Stats - Noncalculus .................................................. *

8 credit hours of single laboratory science ............................................. *

3 credit hours from each of the following areas: ........................................ 3**

(1) Social Statistics
(2) Reasoning and Argumentation
(3) Research Design for Social Science (subject to departmental restrictions)
(4) Microcomputer Skills

* Satisfies TBR General Education Core Requirement.
** Areas 1, 3, and 4 satisfied in the major.

B.A. Requirements ............................................. 12-13 Credit Hours

Select MATH 1530, 1840, or 1910 ............................................. 3-4

Two courses of a single language at or above the 2000 level ................................. 6

Non U.S. History ........................................................................ 3

Minor ........................................................................ 18-26 Credit Hours

Electives ........................................................................ 0-16 Credit Hours

Total Hours Required for Degree ........................................... 120 Credit Hours
CRIMINAL JUSTICE AND CRIMINOLOGY
B.S./B.A. REQUIREMENTS

1. Completion of General Education Core Requirements of the university and requirements of the College of Arts and Sciences B.A. or B.S. in social and behavioral sciences.

2. Completion of criminal justice and criminology core curriculum as follows:
   - CJCR 1100 Introduction to Criminal Justice ............................................. 3
   - CJCR 2540 Criminal Law ........................................................................... 3
   - CJCR 3000 Statistics for Criminal Justice and Criminology ................. 3
   - CJCR 3010 Research Methods for Criminal Justice and Criminology ...... 3
   - CJCR 3300 Criminal Justice Ethics ............................................................. 3
   - CJCR 3310 Criminology ............................................................................ 3
   - CJCR 3444 Microcomputers as a Research Tool (B.S. requirement) ........ 3

   TOTAL .......................................................................................................... 21

3. Completion of 21 hours of elective CJCR courses: .................................. 21
4. Completion of a minor to be selected in consultation with the director of advising in the department.

Other Requirements:
   a. Must complete a minimum of 27 hours at ETSU in the Department of Criminal Justice and Criminology.
   b. Must maintain a minimum grade point average of 2.50 in criminal justice and criminology coursework completed at ETSU.

No grade earned in a criminal justice and criminology major core course below a 2.0 (C) will be accepted.

Suggested Course Sequence for Criminal Justice & Criminology B.S.
(Concentration for Social and Behavioral Sciences) Majors

**Freshman Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJCR 1100 Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1010 Critical Reading and Expository Writing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1530 Probability &amp; Statistics</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2010 The United States to 1877</td>
<td>3</td>
</tr>
<tr>
<td>Semester Total</td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Critical Thinking and Argumentation</td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science</td>
<td>4</td>
</tr>
<tr>
<td>Communication/Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2020 The United States Since 1877</td>
<td>3</td>
</tr>
<tr>
<td>Semester Total</td>
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**Sophomore Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>CJCR 2540 Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>English</td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Semester Total</td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJCR 3300 Criminal Justice Ethics</td>
<td>3</td>
</tr>
<tr>
<td>CJCR 3310 Criminology</td>
<td>3</td>
</tr>
<tr>
<td>CJCR 3000 Statistics for Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>Humanities/Fine Arts Elective</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Semester Total</td>
<td>15</td>
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</tbody>
</table>

**Junior Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJCR 3010 Research Methods for Criminal Justice &amp; Criminology</td>
<td>3</td>
</tr>
<tr>
<td>Electives, Major and Minor courses</td>
<td>9</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Semester Total</td>
<td>15</td>
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</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJCR 3444 Microcomputers as a Research Tool</td>
<td>3</td>
</tr>
<tr>
<td>Electives, Major and Minor courses</td>
<td>6</td>
</tr>
<tr>
<td>Oral/Written Communication Intensive</td>
<td>6</td>
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<tr>
<td>Semester Total</td>
<td>15</td>
</tr>
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</table>

**Senior Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electives, Major and Minor courses</td>
<td>15</td>
</tr>
<tr>
<td>Semester Total</td>
<td>15</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electives, Major and Minor courses</td>
<td>13</td>
</tr>
<tr>
<td>Semester Total</td>
<td>13</td>
</tr>
<tr>
<td>TOTAL</td>
<td>120</td>
</tr>
</tbody>
</table>

Minor in Criminal Justice and Criminology

Students minoring in criminal justice and criminology must complete 18 semester credit hours as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJCR 1100 Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJCR 2540 Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>CJCR 3310 Criminology</td>
<td>3</td>
</tr>
<tr>
<td>Electives in Criminal Justice and Criminology</td>
<td>9</td>
</tr>
<tr>
<td>TOTAL</td>
<td>18</td>
</tr>
</tbody>
</table>

FIELD EXPERIENCE PROGRAM

Students majoring (B.S./B.A. degree) in criminal justice and criminology are encouraged to enroll in the field experience program during their senior year. The program is designed to integrate academic preparation with practice in the criminal justice system. Student interest in this program will be discussed with the director of undergraduate advisement in the course of general advisement. A limited number of positions are available. Application for field experience should be made to the director of field experience during the spring semester. Selection is made by a faculty committee. It is offered during summer semesters only.

Department of English (ENGL)

Box 70683
Phone: (423) 439-4347
Web Address: www.etsu.edu/English

English is the study of human thought, feeling, and communication through the experience of literature, language, and writing. The study of English helps one understand the human condition as it emerges in cultural contexts, examine ideas, and think and write clearly and effectively.

The Department of English offers programs leading to teaching careers, to further study at the graduate level, and to professions requiring a broad liberal education, such as law, public relations, and government service. The department also offers a wide variety of electives for nonmajors seeking to diversify their educational programs.

Major – The English major consists of 36 credit hours above the freshman level. All English majors are expected to complete a minor in another area of study with no overlapping between the major and an interdisciplinary minor. English majors must meet requirements for the B.A. in the College of Arts and Sciences.

Nonteaching majors – The major who does not seek teacher certification must complete at least 36 hours, as specified below:

Bachelor of Arts Degree (B.A.)

English Major (ENGL)

ETSU Academic Proficiency Requirements

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

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

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

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

TBR General Education Requirements .......... 41-42 Credit Hours
ENGL 1010 Critical Reading & Expository Writing ......... 3
ENGL 1020 Critical Thinking & Argumentation .......... 3
Communication: Oral Communication* ........................................... 3
Mathematics* ........................................................................... 3-4
Science* ....................................................................................... 6
HIST 2010 The United States to 1877 .............................. 3
HIST 2020 The United States Since 1877 .............................. 3
Humanities/Fine Arts* ................................................................. 9
Social/Behavioral Sciences* ....................................................... 6

*See the General Education Core Requirements for options.

Bachelor of Arts Degree Requirements* ............... 9 Credit Hours
Foreign Language ................................................................. 6
Non-United States History ......................................................... 3

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

English Major Requirements ......................... 36 Credit Hours
ENGL 2110 or 2120 and 2210 or 2220 (3 hours satisfies Humanities/Literature) .................. 6
(or Honors Equivalent)
ENGL 2330 or 2430 ........................................................................ 3
ENGL 3000-level courses (3) ......................................................... 9
ENGL 4000-level courses (2) .......................................................... 6
ENGL Electives (4 at 3000/4000 level) ............................................. 12

Students may elect to complete a 12-hour Writing Emphasis or Language Emphasis in place of 12-hour general elective requirement in English.

* Must include 3 hours from ENGL 2110 or 2120 and 3 hours from 2210 or 2220. Remaining 3 hours may be taken from ENGL 2330 or 2430 if desired.

Departmental Honors - The department offers an Honors Program consisting of 18 credit hours of honors courses, including a senior thesis, which can become part of an English major or minor. Students may enter the Honors Program with a high school GPA of 3.2 and one of the following: ACT score of 25, an equivalent SAT, or an AP score of 4 in English. Transfers and students already enrolled at ETSU must meet slightly different criteria. Please contact the program director, Prof. Michael Cody, at (423) 430-6746, or mrdmou@etsu.edu for further information.

Teaching majors – The major who seeks teacher certification must complete at least 36 hours, as specified below. Thirty-three (33) credit hours must come from the following specified courses in English:

ENGL 2110 American Literature I
ENGL 2120 American Literature II
ENGL 2210 British Literature I
ENGL 2220 British Literature II
ENGL 2330 World Literature
or 2430 European Literature
ENGL 3010 Poetry
or 3020 Fiction
or 3030 Drama
or 3040 Literary Nonfiction
ENGL 3100 Introduction to Linguistics
or 3200 History of the English Language
or 4120 Descriptive Linguistics
or 4130 Social and Psychological Aspects of Language
ENGL 3130 Advanced Composition or
4057 Writing: Theory and Teaching
ENGL 4077 Adolescent Literature
ENGL 4117 Grammar and Usage
ENGL 4200 Shakespeare and His Age

Three (3) English elective hours must be taken at the 3000 or 4000 level.

In addition to the 36-hour major, students seeking certification must complete the following courses for the Teacher Education Minor:

EDFN 2100 Orientation to the Profession of Teaching
EDFN 2300 Foundations for Teaching
EDFN 3301 Issues in Education
EDFN 3310 Educational Psychology
MEDA 3570 Instructional Technology
SPED 2300 Exceptional Learners in School
ENGL 4417 Teaching English in Secondary Schools
CUAI 4417 Secondary Curriculum and Methods
CUAI 4427 Secondary Curriculum and Methods Field Experience
READ 4437 Reading Instruction in Middle/Secondary School

Note: CUAI 4380 is also required for licensure. See the “General Education” and “Professional Education” requirements for Secondary and K-12 certification listed under the College of Education in this catalog.

Suggested Course Sequence

A typical program of study, leading to a major in English (with foreign language requirement for B.A.), a minor in History (for example), and completion of the General Education Core = 120 hours.

Freshman Year
First Semester
ENGL 1010 Critical Reading and Expository Writing .............. 3
HIST 2010 The United States to 1877 .............................. 3
MATH 1530 Probability and Statistics .................................. 3
Science ................................................................................. 4
Fine Arts ............................................................................... 3
Total Semester ................................................................. 16
Second Semester
ENGL 1020 Critical Thinking and Argumentation .......... 3
HIST 2020 The United States Since 1877 .............................. 3
Science ................................................................................. 4
SOAA 1510 Introduction to Sociology ................................. 3
SPCH 1000 Public Speaking .................................................. 3
Total Semester ................................................................. 16

Sophomore Year
First Semester
ENGL 2110 American Literature I or ENGL 2120 American Literature II .......................... 3
ENGL 2430 European Literature or ENGL 2330 World Literature ......................... 3
HIST 1110 World History to 1500 ........................................... 3
Total Semester ................................................................. 15
Second Semester
ENGL 2210 British Literature I or ENGL 2220 British Literature II ......................... 3
ENGL 3210 Literature of Popular Culture .................................. 3
HIST 1120 History Since 1500 .................................................. 3
FREN 1012 Beginning French II ................................................. 3
Elective ....................................................................................... 3
Total Semester ................................................................. 15

Junior Year
First Semester
ENGL 3010 Poetry ........................................................................ 3
ENGL 3500 Women Authors ..................................................... 3
ENGL 3600 Women Authors ..................................................... 3
HIST 2320 History of Africa ..................................................... 3
FREN 2000 Second-Year French I .............................................. 3
THEA 1030 Introduction to Theatre ........................................... 3
Total Semester ................................................................. 15
Second Semester
ENGL 3030 Drama ....................................................................... 3
ENGL 3040 Literary Nonfiction .................................................. 3
HIST 3720 History of Africa ..................................................... 3
FREN 2000 Second-Year French II .............................................. 3
SOAA 1020 Introduction to Sociology ........................................ 3
Total Semester ................................................................. 15

Senior Year
First Semester
ENGL 4013 Shakespeare .............................................................. 3
ENGL 4017 British Novel ............................................................... 3
PHIL 2000 Values and Society ................................................... 3
HIST 4147 The Old South .......................................................... 3
HIST 4257 History of Rome ........................................................ 3
Total Semester ................................................................. 15
Second Semester
ENGL 4022 American Poetry ...................................................... 3
ENGL 4024 American Novel ...................................................... 3
HIST 4017 Urban History .......................................................... 3
Elective ....................................................................................... 3
Total Semester ................................................................. 12
Total ................................................................. 120
**Environmental Studies Minor (ENVH)**  
Box 70649  
Phone: (423) 439-4309  

Dr. Joel Hillhouse, Director  
424C Rogers-Stout Hall

The Environmental Studies minor provides an interdisciplinary program for students who would like to gain a greater appreciation of human interactions with the environment. The program is designed to help students become more environmentally aware and responsible, understand environmental issues in an interdisciplinary context and enhance career options in environmentally-related fields. The program will be part of a campus-wide effort to enhance environmental awareness at ETSU.

Students will learn to apply different perspectives of the humanities, business management and the social, biological, and physical sciences to environmental and natural resource issues. Students will learn to integrate science and the humanities and approach environmental issues in the context of ethics and values. The program also seeks to ground the study of environmental issues in the unique culture, geology, and biology of the Southern Appalachian region. The program is open to all majors and seeks to make each discipline's core knowledge meaningful within the inherently interdisciplinary nature of human knowledge. The perspectives in the program combined with training in a traditional discipline will prepare students for graduate work and careers in environmental law, public health, public policy, public administration, environmental writing and more. The minor encourages experiential and service learning methods and seeks to provide an interesting and enjoyable learning experience for students.

The Environmental Studies minor requires the completion of 21 hours of coursework chosen from among the following courses:

**Environmental Studies Minor Requirements ... 21 Credit Hours**

- ENVH 1800 Human Ecology & Environmental Education ……. 3
- ENVH 4950 Integrative Seminar in Environmental Studies ….. 3

**Approved Electives .....................................................................15**

- BIOL 1010/11 Biology/Lab for Non-Majors ......................... 4  
  or
- BIOL 1130/11 Biology/Lab for Biology Majors .................. 4  
- BIOL 4047 Ecology Field Trip............................................. 3  
- ENGL 3040 Literature Non-Fiction (Environmental Focus) … 3  
- ENVH 3400 Air Pollution .................................................. 3  
- ENVH 4000 Public Health Law ....................................... 3  
- GEOG 3040 Conservation of Natural Resources .......... 3  
- GEOG 3120 Geography of Southern Appalachia .......... 3  
- GEOG 3481 Environmental Geology .......................... 3  
- SRVL 1020 Service Learning (Environmental Focus) .... 3  
- MGMT 4657 Strategic Environmental Management in Business 3
- HUMT 3040 Native American Thinking .......................... 3
- PSYC 3500 Ecopsychology ........................................... 3
- SALM 3130 Natural Resource Management ................ 3
- SCED 4020 Wildlife Conservation ................................ 3
- ENGL 3040 and HUMT 1020 count toward an Environmental Studies Minor only when the topic or project focuses on an environmental issue.

Students must choose at least two courses from the Sciences (BIOL, ENVH 3400, GEOG, GEOG, SCED) and

**Film Studies Minor (FILM)**  
Box 70683  
Phone: (423) 439-5897  
Web Address: www.etsu.edu/English

The Film Studies Minor seeks to educate students about film in an interdisciplinary context. The goals of this program are to encourage serious consideration of film as an art form; to explore film as a medium of communication; and to examine the power of film in shaping attitudes, values, and our understanding of society and the world.

Courses are designed to provide students with knowledge of the techniques of the filmmaking process, the historical development of film as an institution, film theory, methods of critical analysis, and an awareness of the relationship of film to broader issues within various disciplines.

The Film Studies Minor requires 21 credit hours of coursework. A 12 credit hour core is required of all minors. Students may select 9 credit hours of elective courses to complete the minor course of study.

**Required Core.................................................................. 12 Credit Hours**

- ENGL 3290 Introduction to Film Study .......................... 3
- RTVF 2630 Writing for Radio TV ........................................ 3
- RTVF 3602 Video/Film Techniques .............................. 3
- ENGL 4320 Film Criticism ........................................... 3

**Guided Electives (from the following)* ....................................... 9 Credits Hours**

- ENGL 4290 Film Genres .................................................. 3
- ENGL 4507 Literature and Film ....................................... 3
- ENGL 4340 Topics in Film .................................................. 3
- SPAN 4117 Hispanic Cinema ........................................... 3
- CJCR 4026 Themes of Justice .......................................... 3
- PSCI 4957 Special Topics in Political Science whenever topic is “Politics and Film” ………………………………………. 3
- HIST 4957 Special Topics in History whenever topic is “History of Blacks on Film” ……………………………………….. 3
- RTVF 4957 Topics in Broadcasting ............................. 2-6
- RTVF 4680 Broadcast Practicum ........................................ 2

**Total Credit Hours Required for Minor ... 21 Credit Hours**

NOTE: Broadcast Practicum may be elected by students with special interest in production and may be applied to any of the above disciplines. Broadcast Practicum counts above and beyond minor requirements. Can count as an elective.

With approval of the Film Studies Committee, additional special topics courses may be counted in the minor; however, no courses counting toward the student's major may be counted toward satisfying the minor's requirements.

**Department of Foreign Languages  
(LANG)**  
Box 70312  
Phone: (423) 439-4264

The Department of Foreign Languages offers courses in French, German, Japanese, and Spanish designed to give the student a working knowledge of a language in the areas of reading, writing, listening and speaking, and to help create in students an appreciation and understanding of languages and cultures other than their own. In addition to the cultural objective and personal satisfaction, the student will find that foreign language study is an aid in scientific study, business, foreign trade, travel, and international politics.

**Placement** – Placement in the appropriate level of foreign language,
for those students with prior language experience entering ETSU, will be determined pursuant to the published policy statement of the Department of Foreign Languages at ETSU. The statement is available on the departmental web site as well as from university offices such as the Advisement Resources Career Center.

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

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

**Transfer Students** – Students transferring to ETSU and wishing to receive a major or a minor in a foreign language must complete at least 12 hours of upper division courses for the major or nine hours of upper division courses for the minor at ETSU.

**Graduate School Requirements** – Preprofessional students and students who are contemplating graduate study are advised to check the catalogs of professional and graduate schools regarding foreign language reading requirements.

**Graduate Study** – The Department of Foreign Languages has been approved to offer graduate courses in French, German, and Spanish that may lead to 15 credit hours of concentration in French, German, or Spanish as part of a master of arts degree in secondary education. Further information on graduate programs is contained in the School of Graduate Studies catalog.

**Teacher Education** – Students interested in pursuing a teacher education program for certification as a foreign language teacher are asked to see their foreign language advisor in the College of Arts and Sciences AND their professional advisor in the Office of Student Services, 321 Warf-Pickel, College of Education.

**Pre-Teacher Education – Declaration of Intent – All ETSU students desiring to complete a teacher education or other public school licensure program (for initial licensure, add-on endorsement, or advanced study in education) must file a Declaration of Intent in the Office of Student Services, 321 Warf-Pickel Hall. The Declaration of Intent should be filed before 30 credit hours of coursework have been completed or, in the case of transfer and post-baccalaureate students, in the first semester at ETSU. Delay or failure to file the Declaration of Intent may result in incomplete advisement. Students who have not filed the Declaration of Intent will not be considered for admission to teacher education and may be ineligible to enroll in many professional education courses.

**Professional Education Requirements** – There is a total of 36 credit hours required for Professional Education. Please refer to the Education Minor section in this catalog for a list of the required courses that must be taken with the professional seminar.

Students majoring in foreign languages who wish to fulfill teacher certification requirements must complete course LANG 4417, Teaching Foreign Languages.

Several programs of study leading to the B.A. in foreign languages are available. The traditional major, with concentrations in French, German, or Spanish, emphasizes the liberal arts training needed in a variety of jobs. These include library or museum work, general business, and teaching. These curricula are designed to help prepare students for employment in fields where knowledge of a foreign language is of particular advantage. In addition to the General Education Core Requirements, there are degree requirements in the College of Arts and Sciences outlined in the earlier pages of this section.

**Requirements for the different programs are as follows:**

**Traditional Major in Foreign Languages, with concentrations in French, German, or Spanish - A minimum of 33 credit hours above the 1000 level, in the language of the concentration.**

Coursework, as well as a Portfolio, should be planned in consultation with the major advisor. Exit requirements for the major include the completed Portfolio and the Oral Exit Interview.

All Foreign Language majors also require a minor. Students may select a minor from a number of fields that will enhance their professional opportunities, such as business, communications, criminal justice, film studies, health education, history, international studies, political science, sociology, urban studies, or a second foreign language.

**Languages**

**ETSU Academic Proficiency Requirements**

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

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

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

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

**TBR General Education Requirements ........ 41-42 Credit Hours**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGL 1010 Critical Reading and Expository Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1020 Critical Thinking and Argumentation</td>
<td>3</td>
</tr>
<tr>
<td>Communication: Oral Communication*</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics*</td>
<td>3-4</td>
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<tr>
<td>Natural Sciences*</td>
<td>8</td>
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<tr>
<td>HIST 2010 The United States to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2020 The United States Since 1877</td>
<td>3</td>
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<tr>
<td>Humanities/Fine Arts*</td>
<td>9</td>
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<tr>
<td>Social/Behavioral Sciences*</td>
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</table>

*TSee the General Education Core Requirements for options.

<table>
<thead>
<tr>
<th>Requirement</th>
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<tr>
<td>B.A. Requirements ...............</td>
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<tr>
<td>Major</td>
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<tr>
<td>Minor</td>
<td>18-27</td>
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<tr>
<td>Electives</td>
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<td>Total Hours Required for Degree</td>
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**FRENCH**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Major and Minor Pre-requirements</td>
<td>6</td>
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<tr>
<td>French 1010 Beginning French I</td>
<td>3</td>
</tr>
<tr>
<td>French 1020 Beginning French II</td>
<td>3</td>
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<tr>
<td>Major Requirements</td>
<td>33</td>
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<tr>
<td>Minor Requirements</td>
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</table>

**Credit hours to be chosen from the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 2010 Second Year French I</td>
<td>3</td>
</tr>
<tr>
<td>FREN 2020 Second Year French II</td>
<td>3</td>
</tr>
<tr>
<td>FREN 3010 French Conversation/Composition I</td>
<td>3</td>
</tr>
<tr>
<td>FREN 3110 French Conversation/Composition II</td>
<td>3</td>
</tr>
<tr>
<td>FREN 3210 Readings in French</td>
<td>3</td>
</tr>
<tr>
<td>FREN 3310 French Civilization</td>
<td>3</td>
</tr>
<tr>
<td>FREN 3510 French Literature before 1700</td>
<td>3</td>
</tr>
</tbody>
</table>
### GERMAN

**Minor Pre-requisites** ............................................. 6 Credit Hours

- GERM 1010 Beginning German I ........................................ 3
- GERM 1020 Beginning German II .........................................3

**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

### JAPANESE

**Minor Pre-requisites** ............................................. 6 credit hours

- JAPN 1010 Beginning Japanese I ........................................ 3
- JAPN 1020 Beginning Japanese II .........................................3

**Credit hours to be chosen from the following:**

- 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 4973 Topics in Japanese ....................................... 3
- HIST 3740 History of Asia ........................................... 3
- HIST 4707 East Asia since 1900 ...................................... 3

### SPANISH

**Major Requirements** ........................................... 33 Credit Hours

**Minor Requirements** ........................................... 21 Credit Hours

**Credit hours to be chosen from the following:**

- SPAN 2010 Second Year Spanish I ...................................... 3
- SPAN 2020 Second Year Spanish II .....................................3
- SPAN 3003 Basic Spanish Grammar .................................... 3
- SPAN 3033 Hispanic Readings and Composition ...................... 3
- SPAN 3113 Spanish Conversation/Composition ........................ 3
- SPAN 3213 Spanish Phonetics & Pronunciation ....................... 3
- SPAN 3315 Civilization of Spain ...................................... 3
- SPAN 3415 Civilization of Latin America ............................. 3
- SPAN 3513 Survey of Spanish Literature .................................... 3
- SPAN 3613 Survey of Spanish-American Literature .................. 3
- SPAN 3713 Hispanic Poetry ........................................... 3
- SPAN 4007 Golden Age Drama ......................................... 3
- SPAN 4017 Advanced Spanish Grammar I .................................... 3
- SPAN 4027 Advanced Spanish Grammar II ................................... 3
- SPAN 4107 Cervantes .................................................. 3
- SPAN 4117 Hispanic Cinema ........................................... 3
- SPAN 4127 Introduction to the Spanish-Speaking Community ........ 3
- SPAN 4137 Translation and Community Outreach ...................... 3
- SPAN 4147 Interpretation and Community Outreach .................... 3
- SPAN 4207 Nineteenth-Century Spanish Literature .................... 3
- SPAN 4307 The Generation of ‘98 ..................................... 3
- SPAN 4407 Twentieth-Century Spanish Literature .................... 3
- SPAN 4507 Spanish Short Story ....................................... 3
- SPAN 4607 Modernist Movement in Spanish America .................. 3
- SPAN 4707 Spanish-American Theatre ................................... 3
- SPAN 4737 Art at the Prado Museum ................................... 3
- SPAN 4807 Spanish-American Novel ................................... 3
- SPAN 4903 Special Studies in Spanish ................................ 3
- SPAN 4957 Topics in Spanish ......................................... 3

In addition to the 33 credit hours, students wishing to be certified in Spanish must complete the following course, counted as an education requirement:

- LANG 4417 Teaching Foreign Languages ................................. 3

### Applied Spanish:

- Community Studies Minor ........................................ 18 Credit Hours

**Minor Pre-requisites** ............................................. 2 years college Spanish or equivalent

**Required Core** .................................................. 9 credit hours

- 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 credit hours

- 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 (one from the following) ........ 3 credit hours**

- PSCI 3830 Government and Politics of Latin America .................. 3
- GEOG 4307 Regional Geography of Latin America ...................... 3
- HIST 4720 Latin America: Revolution and Nationalism .................. 3
- SOAA 3705 Peoples and Cultures 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

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East Tennessee State University

2006-2007 Undergraduate Catalog

73
**Suggested Course Sequence for the Bachelor of Arts with a Major in Language and a Concentration in Spanish, Minor in English**

### Freshman Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>ENGL 1010</td>
<td>Critical Reading and Expository Writing</td>
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<tr>
<td></td>
<td>ENGL 1090</td>
<td>Beginning Spanish I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 1500</td>
<td>Probability and Statistics</td>
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<tr>
<td></td>
<td>HIST 2010</td>
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### Second Semester

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<tbody>
<tr>
<td>ENGL 1020</td>
<td>Critical Thinking and Argumentation</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 1090</td>
<td>Beginning Spanish II</td>
<td>3</td>
</tr>
<tr>
<td>Science</td>
<td></td>
<td>4</td>
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<td>HIST 2020</td>
<td>The United States Since 1877</td>
<td>3</td>
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### Sophomore Year

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<thead>
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<tr>
<td>First</td>
<td>ENGL 2300</td>
<td>World Literature</td>
<td>3</td>
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<td></td>
<td>SPAN 2010</td>
<td>Second Year Spanish I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities/Fine Arts Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HIST 1110</td>
<td>World History to 1500</td>
<td>3</td>
</tr>
<tr>
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### Second Semester

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<tbody>
<tr>
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<td>American Literature</td>
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<td>Humanities/Fine Arts Elective</td>
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<tr>
<td>SPAN 2020</td>
<td>Second Year Spanish II</td>
<td>3</td>
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<tr>
<td>Social/Behavioral Sciences</td>
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<tr>
<td>ENGL 3100</td>
<td>Introduction to Linguistics</td>
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### Junior Year

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<th>Course Title</th>
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<td>First</td>
<td>ENGL 3xx/4xx Elective</td>
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<td></td>
<td>ENGL 3xx/4xx Elective</td>
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<tr>
<td></td>
<td>SPAN 3003</td>
<td>Basic Spanish Grammar</td>
<td>3</td>
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<tr>
<td></td>
<td>SPAN 3033</td>
<td>Hispanic Readings and Composition</td>
<td>3</td>
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<tr>
<td></td>
<td>Elective</td>
<td></td>
<td>3</td>
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<td><strong>Semester Total</strong></td>
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### Second Semester

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tr>
<td>ENGL 3xx/4xx Elective</td>
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<tr>
<td>SPAN 3113</td>
<td>Civilization of Spain</td>
<td>3</td>
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<tr>
<td>SPAN 3113</td>
<td>Spanish Composition and Conversation</td>
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<tr>
<td>SPAN 3013</td>
<td>Survey of Spanish-American Literature</td>
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<td>Elective</td>
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### Senior Year

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<tr>
<td>First</td>
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<td>ENGL 4xx</td>
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<td>SPAN 3213</td>
<td>Spanish-Phonetics and Pronunciation</td>
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<td>Civilization of Latin America</td>
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<td>Elective</td>
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### Second Semester

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<td>SPAN 3513</td>
<td>Survey of Spanish Literature</td>
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### TBR General Education Requirements

**41-42 Credit Hours**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ENGL 1010</td>
<td>Critical Reading and Expository Writing</td>
<td>3</td>
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<td>ENGL 1020</td>
<td>Critical Thinking and Argumentation</td>
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<td>Communication: Oral Communication</td>
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<td>Mathematics*</td>
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<td>Natural Sciences*</td>
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<td>HIST 2010</td>
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<td>3</td>
</tr>
<tr>
<td>HIST 2020</td>
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<td>3</td>
</tr>
<tr>
<td>Humanities/Fine Arts*</td>
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<td></td>
</tr>
<tr>
<td>Social/Behavioral Sciences*</td>
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</tbody>
</table>

* Satisfies TBR General Education Core Requirement.

**History Major Requirements**

**33 Credit Hours**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 1110* &amp; 1120 World Civilization</td>
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<td></td>
</tr>
<tr>
<td>HIST 3410</td>
<td>Intro. to Historical Study</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3000-level courses (2)**</td>
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<tr>
<td>HIST 4000-level courses (5)**</td>
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<tr>
<td>One course at either the 3000 or 4000 level**</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

* Of the 24 credit hours taken at the 3000 and 4000 levels, at least 6 credits must be taken in each of the general areas of United States, European, and World History.

**B.A. Requirements**

**6 Credit Hours**

- Select MATH 1530, 1840, or 1910.

**Minor**

**18-27 Credit Hours**

**Total Hours Required for Degree**

**120 Credit Hours**

---

**Department of History (HIST)**

**Box 70672**

**Phone:** (423) 439-4222

**Web Address:** www.etsu.edu/cas/history/hist.htm

---

History is the study of humans as revealed by the past. The study of history is an indispensable intellectual endeavor for students who desire to understand and appreciate the human condition in all its diversities as well as the historical process that has shaped their personal lives. The Department of History offers a wide array of courses in the history of Asia, Africa, Europe, Latin America, and the United States designed to acquaint students with the complexities of today’s multicultural “global village” and to deepen their understanding of the events, opinions, ideas, and facts they will need to make informed political, social, and personal judgments throughout their lives. The study of history provides an appropriate background for almost any career. The history degree is particularly useful in preparation for professional and graduate studies, such as law and religion. The preprofessional historian can find a rewarding career in teaching, archival work, museums, journalism, government, administration, and other occupations that call for a strong liberal arts background.

**Major** — A student majoring in history must complete requirements for the B.A., B.S., or B.S./S.S. (social and behavioral sciences concentration).

**Bachelor of Arts (B.A.) History Major (HIST)**

**ETSU Academic Proficiency Requirements**

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**History Major Requirements**

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<tr>
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<td></td>
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<td>Social/Behavioral Sciences*</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

* Satisfies TBR General Education Core Requirement.

**History Major Requirements**

**33 Credit Hours**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 1110* &amp; 1120 World Civilization</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>HIST 3410</td>
<td>Intro. to Historical Study</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3000-level courses (2)**</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>HIST 4000-level courses (5)**</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>One course at either the 3000 or 4000 level**</td>
<td>3</td>
<td></td>
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</tbody>
</table>

**B.A. Requirements**

**6 Credit Hours**

- Select MATH 1530, 1840, or 1910.

**Minor**

**18-27 Credit Hours**

**Total Hours Required for Degree**

**120 Credit Hours**

---

**Bachelor of Science (B.S.) History Major (HIST)**

**ETSU Academic Proficiency Requirements**

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

**Oral Communication:** Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.
Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, Using Information Technology, during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.

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

### TBR General Education Requirements

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<thead>
<tr>
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<th>Hours</th>
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<tbody>
<tr>
<td>ENGL 1010</td>
<td>Critical Reading and Expository Writing</td>
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<tr>
<td>ENGL 1020</td>
<td>Critical Thinking and Argumentation</td>
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<tr>
<td>Communication: Oral Communication*</td>
<td>3-4</td>
<td></td>
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<tr>
<td>Mathematics*</td>
<td></td>
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</tr>
<tr>
<td>Natural Sciences*</td>
<td>8</td>
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<tr>
<td>HIST 2010</td>
<td>The United States to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2020</td>
<td>The United States Since 1877</td>
<td>3</td>
</tr>
<tr>
<td>Humanities/Fine Arts*</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Social/Behavioral Sciences*</td>
<td>6</td>
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</tr>
</tbody>
</table>

*See the General Education Core Requirements for options.

### History Major Requirements

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</tr>
<tr>
<td>One course at either the 3000 or 4000 level**</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

* Satisfies TBR General Education Core Requirement.
** Of the 24 credit hours taken at the 3000 and 4000 levels, at least 6 credits must be taken in each of the general areas of United States, European, and World History.

### Behavioral Sciences Requirements

- Select MATH 1850 or 1910, including experience in the differential and integral calculus. *
- 8 credit hours of single laboratory science in addition to General Education Core Natural Science. *

* Satisfies TBR General Education Core Requirement.

### B.S. Requirements

- 8 Credit Hours
  - 8 credit hours of single laboratory science in addition to General Education Core Natural Science. *

OR

- 12 Credit Hours
  - 8 credit hours of single laboratory science. *
  - 3 credit hours from each of the following areas: 12
    - (1) Social Statistics
    - (2) Reasoning and Argumentation
    - (3) Research Design for Social Science (subject to departmental restrictions)
    - (4) Microcomputer Skills

* Satisfies TBR General Education Core Requirement.

### B.S. with a concentration in Social and Behavioral Sciences Requirements

- 12 Credit Hours
  - MATH 1530 Prob & Stats - Noncalculus. *
  - 3 credit hours from each of the following areas: 12
    - (1) Social Statistics
    - (2) Reasoning and Argumentation
    - (3) Research Design for Social Science (subject to departmental restrictions)
    - (4) Microcomputer Skills

* Satisfies TBR General Education Core Requirement.

### International Studies Minor

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTL 2000</td>
<td>Introduction to International Studies</td>
<td>2</td>
</tr>
<tr>
<td>INTL 4000</td>
<td>International Studies Senior Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

Students are encouraged to design a course grouping for the remaining 18 hours in consultation with the International Studies Program Director and Advisory Board.

Program options are shown below. Courses listed within each option are only examples. Student course selections are not limited to those courses.

### Program Option I

- Requires six hours of a foreign language beyond the requirements of student's degree program or major, plus 12 hours of electives in one or two departments, to form a coherent and logical program of study:

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<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTL 2000</td>
<td>Introduction to International Studies</td>
<td>2</td>
</tr>
<tr>
<td>JAPN 3015</td>
<td>Japanese Conversation and Composition I</td>
<td>3</td>
</tr>
</tbody>
</table>

**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.**
Legal Studies Minor (LGST)

Box 70651  Phone: (423) 439-4217

Dr. David Briley, Director  email: briley@etsu.edu

Legal Studies Minor - The Legal Studies Minor is a 21-semester-hour interdisciplinary program which includes courses from the departments of Political Science, Criminal Justice & Criminology, Communications, Management and Marketing, and Environmental Health. The program is designed for students who are interested in the legal system and the application of the law in specific areas, and it will complement a broad range of majors.

Required courses 12 credit hours

- PSCI 3200 Law and Judicial Process 3
- PSCI 3230 American Constitutional Law 3
- CJCR 2540 Criminal Law 3
- MGMT 3310* Legal Environment of Business 3
- ENVH 4000 Public Health Law 3

Guided electives 9 credit hours

Select any three courses from the following:
- PSCI 3205 Constitution and Civil Liberties 3
- PSCI 3210 Due Process and Adjudication 3
- PSCI 3220 The Supreme Court 3
- CJCR 3650 Criminal Procedure 3
- ENVH 4000 Public Health Law 3
- MCOM 4037 Communication Law 3
- MGMT 3310 Legal Environment of Business 3
- MGMT 3333 Law of Commercial Transactions 3
- MGMT 4600 Personnel Law 3
- PHIL 4957 Special Topics in Philosophy entitled “Philosophy of Law” 3

*Prerequisite for MGMT 3330, 3333, and 4600.

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

Department of Mathematics (MATH)

Box 70663  Phone: (423) 439-4349
Web Address: www.etsu.edu/math/math.htm

The Department of Mathematics offers courses to serve a variety of programmatic needs, including coursework to support training in pure and applied mathematics, mathematics education for secondary certification, statistics, computer science, business, and the physical and life sciences. The programs of study enable students to select courses suited to a variety of career goals. Advising plays an integral role in achieving these objectives. Consequently, each student selecting mathematics as a major is assigned an advisor to assist with scheduling and career planning. A minor in mathematics is also available to the student who wishes to complement another choice for major.

Financial Support

Scholarships and loans are available for the conscientious mathematics majors who are seeking support for their education. The Edward Stanley Scholarship, Jeffrey Lynn Hightower Memorial Scholarship, Charles F. Wilkey Scholarship, Wilson-Hartsell Scholarship, Depew Scholarship, Faber-Neal Scholarship, and Rosel Awards are scholarships designated for mathematics and science majors. To encourage students to teach mathematics in the public schools of Tennessee, the Teacher Loan/Scholarship program has been instituted to cover tuition and fees at East Tennessee State University. The interested student should consult the Financial Aid section of this catalog.

Diagnostic/Placement Program

Students admitted to the university for the first time will be placed in a mathematics course based on their ACT score (or comparable SAT score) to ensure the best possible chance for success. Moreover the Department of Mathematics strongly recommends that each student meet with an advisor to see what mathematics courses to take based on mathematics background and program requirements.

Service Courses and General Education Requirements

Besides those mathematics courses designed for the mathematics major, mathematics minor, and other technical programs of study, there are a number of mathematics courses designed specifically to serve the needs of other programs.

Science and Technology Majors – These majors are expected to complete the three-course sequence 1720, 1840, and 1850. As electives, the interested students may wish to include coursework in linear algebra or in statistics.

General Education Requirements – See major or minor listing for courses to satisfy this requirement. To fulfill the General Education requirement in mathematics, the student must successfully complete one of the following courses: MATH 1840, MATH 1530, or MATH 1910. Undeclared majors or students in programs with no specified mathematics course should enroll in MATH 1530.

Programs of Study in Mathematics

The programs of study in mathematics available to students are briefly described here. Specific program requirements are explained in greater detail later.

Mathematics Major – The B.S. degree is available for undergraduate mathematics majors. A major must complete the mathematics core.
requirements and then select one of four tracks: mathematical sciences, mathematical statistics, quantitative modeling, or mathematics education. Curriculum requirements for each of the four tracks are given below. Students planning to teach mathematics at the secondary level may choose the education track. In addition, students must complete professional education requirements for secondary education students. Students planning to pursue careers in industry or a field that utilizes statistics should choose the statistics track, while those desiring a job in research or industry utilizing areas of mathematics other than statistics should choose the quantitative modeling track. Those intending to pursue a graduate degree in mathematics should choose the mathematical sciences track. A minor is not mandatory for students majoring in mathematics.

Mathematics Minor – Students majoring in other disciplines may wish to complement their programs by completing a minor in mathematics. The program consists of 23 credit hours of mathematics as follows: 1910, 2010, 2110, 2120, 2800, or upper-level (junior/senior) courses. The interested student should be advised by the undergraduate mathematics advisor.

Co-Op Program – All students are encouraged to participate in this program to gain practical experience in the applications of mathematics. Consult the chair for information.

Graduate Program – The master of science degree in mathematical sciences is available. Consult the graduate catalog for details.

Major in Mathematics Program

Overview – The requirements for the Bachelor of Science (B.S.) in mathematics are as follows:
1. Completion of the university and college general education requirements. (See the core curriculum requirements in this catalog)
2. Completion of the mathematics core requirements listed below, as well as completion of the requirements for one of the four mathematics tracks, also listed below.

Bachelor of Science Degree (B.S.)
Mathematics Major (MATH)

ETSU Academic Proficiency Requirements

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

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

Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, Using Information Technology, during their first calendar year or prior to accumulating 33 credit semesters at ETSU.

In addition, students must complete at least one using information technology-intensive course in the major field of study.

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

TBR General Education Requirements ............. 42 Credit Hours

ENGL 1010 Critical Reading and Expository Writing ......................... 3
ENGL 1020 Critical Thinking and Argumentation ......................... 3
Oral Communication* ............................................. 3
MATH 1910 Calculus ................................................................ 4
Natural Science* ..................................................... 6
HIST 2010 The United States to 1877 .................................... 3
HIST 2020 The United States Since 1877 ................................ 3
Humanities and Fine Arts* ............................................. 9
Social/Behavioral Sciences* ............................................. 6

*See the General Education Core Requirements for options.

B.S. Requirements ........................................... 8-10 Credit Hours

Natural Sciences: PHYS 2110/20, .............. 8-10 Credit Hours
BIOI 1110/11, BIOI 1120/21

Mathematics Core Requirements .................. 34 Credit Hours

MATH 1920 Calculus II ............................................ 4
MATH 2010 Linear Algebra ........................................ 3
MATH 2050 Probability & Statistics - Calculus based ............ 3
MATH 2090 Mathematical Computing ......................... 2
MATH 2110 Calculus III .......................................... 4
MATH 2120 Differential Equations ..................... 3
MATH 2800 Mathematical Reasoning .................. 3
MATH 4010 Undergraduate Research ............... 3
MATH 4127 Introduction to Modern Algebra ............ 3
MATH 4217 Analysis I ............................................ 3
MATH 4257 Numerical Analysis .................... 3

OR

Mathematics Core Requirements .................. 34 Credit Hours

MATH 3340 Applied Combinatorics & Problem Solving ............ 3
MATH 4137 Modern Algebra II ................................ 3
MATH 4337 Complex Variables ................................. 3
MATH 4347 Introduction to Graph Theory/Applications .......... 3

OR

Mathematical Sciences Track ...................... 12 Credit Hours

Mathematics Core Requirements .................. 34 Credit Hours

MATH 3340 Applied Combinatorics & Problem Solving ............ 3
MATH 4137 Modern Algebra II ................................ 3
MATH 4337 Complex Variables ................................. 3
MATH 4347 Introduction to Graph Theory/Applications .......... 3

OR

Quantitative Modeling Track ..................... 12 Credit Hours

Mathematics Core Requirements .................. 34 Credit Hours

MATH 3340 Applied Combinatorics & Problem Solving ............ 3
MATH 4137 Modern Algebra II ................................ 3
MATH 4337 Complex Variables ................................. 3
MATH 4347 Introduction to Graph Theory/Applications .......... 3

OR

Mathematics Education Track ...................... 12 Credit Hours

Mathematics Core Requirements .................. 34 Credit Hours

MATH 3340 Applied Combinatorics & Problem Solving ............ 3
MATH 4137 Modern Algebra II ................................ 3
MATH 4337 Complex Variables ................................. 3
MATH 4347 Introduction to Graph Theory/Applications .......... 3

In order to complete the requirements for teacher certification, students in the Mathematics Education Track must select a minor in Education which will include:

MATH 4417 Teaching Secondary Math

Electives/Minor ............................................. 22-24 Credit Hours

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

Suggested Course Sequence for Mathematics Major - All Tracks

Freshman Year

First Semester Credit Hours
ENGL 1010 Critical Reading & Expository Writing ......................... 3
MATH 1910 Calculus I ............................................ 4
Natural Science ...................................................... 4
Humanities/Fine Arts ............................................. 3
Semester Total ....................................................... 14

Second Semester Credit Hours
ENGL 1020 Critical Reading & Argumentation ......................... 3
MATH 1920 Calculus II ............................................ 4
MATH 2010 Linear Algebra ........................................ 3
Natural Science ...................................................... 4
Semester Total ....................................................... 14

Sophomore Year

First Semester Credit Hours
MATH 2800 Mathematical Reasoning ................................ 3
MATH 2110 Calculus III .......................................... 4
Social/Behavioral Sciences ........................................ 3
HIST 2010 The United States to 1877 ................................ 3
Elective .............................................................. 3
Semester Total ....................................................... 16
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<td>MATH 3060 Statistical Modeling</td>
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<td>MATH 4172 Modern Algebra I</td>
<td>3</td>
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<tr>
<td>PHYS 2101 Technical Physics I</td>
<td>3</td>
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<tr>
<td>or</td>
<td>4-5</td>
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<tr>
<td>BIOL 1110/11 Biology for Science Majors</td>
<td>3</td>
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<tr>
<td>Communication/Oral Communication</td>
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<td>Social/Behavioral Sciences</td>
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<tr>
<td>MATH 4287 Applications of Statistics</td>
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<td>BIOL 1120/21 Biology for Science Majors</td>
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<td>MATH 3060 Statistical Modeling</td>
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<td>15-17</td>
</tr>
<tr>
<td>Second Semester</td>
<td>4-5</td>
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<tr>
<td>MATH 4157 Math Stat II</td>
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<td>MATH 4287 Numerical Linear Algebra</td>
<td>3</td>
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<td>16-17</td>
</tr>
<tr>
<td>Total</td>
<td>120</td>
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</tbody>
</table>

Recommendations
A student who plans to major in mathematics is encouraged to:
1. Obtain a program sheet from the department of mathematics which outlines the specific requirements for the selected program of study.
2. Read the catalog to determine other requirements for the degree he/she is seeking.
3. Work closely with an advisor. The student, and not the advisor, is responsible for knowing the program requirements for the particular degree he/she is seeking.

Department of Music (MUSC)
Box 70661 Phone (423) 439-4270
Web Address: www.etsu.edu/music

The Department of Music at East Tennessee State University was established in 1946 and is a fully accredited member of the National Association of Schools of Music.
The Department of Music provides specialized training in music to prepare students for professional work or advanced study, for teaching music in the elementary and secondary schools, and for general cultural attainment.
The curriculum of the Department of Music is designed to present the learning of music as an integrated whole. Solo and ensemble performance, theoretical and historical studies, concert attendance, and electives both within and outside the department are intended to provide a balanced education.

In addition to training in the various professions of music, the department provides general music studies and activities for the non-music major, the university, and the community.

**Major Fields of Study and Degrees**

Undergraduate instruction in the department leads to the Bachelor of Music (B.M.) degree with a specialization in Music Education or in Performance. Students choosing music education will identify a specialization in instrumental, vocal, or keyboard/vocal. These students must also complete the core courses required as part of the professional education program, included later in this section. Students may also pursue a minor in music.

The Department of Music also offers training in the Suzuki method for flute. Courses in this program meet certification guidelines of the Suzuki Association of the Americas (SAA).

The Department of Music also offers a wide variety of courses for the non-music major. Any student can enroll in music survey and music fundamentals courses, private lessons (depending on faculty availability), ensembles, and beginning voice classes.

**Events**

The Department of Music offers a wide variety of recitals, concerts, lectures, and other programs by students, faculty, and distinguished guest artists. Most of the programs are free and open to the public. The events schedule can be found at [www.etsu.edu/music/events.html](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, Phi Mu Alpha Sinfonia, Kappa Kappa Psi, and Sigma Alpha Iota provide social, service and professional opportunities for both music and non-music majors.

**Scholarships and Awards**

Upon recommendation of the faculty, students may be awarded scholarships for talent in music. Scholarship auditions are held in February and March each year. Details are available on the department's web page. Awards vary in size and include the following:

- The Lamar Alexander Scholarship
- The Elsie Arzt Memorial Scholarship
- The Teresa Bowers Scholarship
- The Floyd Cramer Scholarship
- Ella V. Ross Scholarship
- The Mary Florence and Virgil C. Self Scholarship
- Band and Choral Performance Scholarships
- The Powell Choral Scholarship
- Richard Compton Memorial Scholarship
- W.G. Patton Scholarship
- Robert LaPella Vocal Scholarship
- Marie Hutchinson Hunter Piano Scholarship

Other awards based upon academic excellence and performance ability are also available from the Department of Music.

**Admission and Enrollment Policies**

Any student seeking a degree in music at ETSU must first meet the general university admission requirements. Once that admission is granted, the student must audition for admission to the music degree program. Auditions are held on selected dates during the spring (see the department web page, [www.etsu.edu/music](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 education majors must register for a minimum of seven semesters of applied music (private instruction) in their major area of performance; Performance majors must register for a minimum of eight semesters. Lessons must be taken with a member of the department faculty. Students may register for either one or two credit hours per semester. Each hour of credit represents a minimum of one-half-hour lesson and six hours of practice per week. A fee of $100 per credit hour is assessed.

String majors enroll for applied lessons at Milligan College. They pay the current applied music fee at Milligan, then submit their receipt to the Department of Music at ETSU. Students will be reimbursed for any difference between Milligan's fee and the fee at ETSU.

Admission to applied music is by audition only. Non-music majors may register for applied music when faculty loads permit. All students must have permission from the department to register for lessons.

Jury examinations are held at the end of each semester of applied study; the purpose of the juries is to determine student progress in the performance area. Applied study for music majors and minors is offered at three levels. Students who remain at Level I for three semesters may be advised to change to another major. Students who are retained in the music program are expected to achieve Level III (upper-division standing) during the third year of study, and a minimum of one semester of study at Level III must be successfully completed prior to graduation.

Additional performance and jury requirements are found in the Music Student Handbook in Blackboard.

**Performance Requirements**

All music majors must perform a solo work in public each semester. Freshman music majors are expected to perform once during the year. “In public” includes studio class or recital, department recital, half or full recital, or other public events as approved by the applied instructor.

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.

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.

Independent Musicianship

All music majors must demonstrate the ability to prepare a new piece of music for performance without the assistance of a faculty member. This skill must be demonstrated at the jury during which a student applies for admission to Level III. Details about the requirement can be found in the Student Handbook.

Ensemble

Performing experience in ensembles is a vital part of the training of all musicians. Thus, all music majors are required to participate in a major ensemble every semester of full-time enrollment. Wind and percussion majors in the music education concentration must be in band (wind ensemble or concert band) each semester. Performance majors may substitute orchestra if they hold a regular, permanent position with the orchestra. String majors must enroll for orchestra at Milligan College. They may also enroll for MUSC 1204/3204, Orchestra, at ETSU if they perform with the Johnson City Symphony. Voice majors must participate in choir. Keyboard majors must enroll in Accompanying.

Students are not limited to a specific number of ensembles, but music majors must enroll for a minimum of ten (10) non-ensemble credits each semester of full-time enrollment.

Recital Attendance

Attendance at recitals and concerts is considered critical to the education of a musician. All music majors must submit evidence of recital attendance for seven semesters; records are maintained in the student's advisement file in the department office.

Details regarding the requirements for each semester's attendance can be found in the Student Handbook on the department Web page.

Advising

All music majors will be assigned an academic advisor upon entrance to the degree program. Students should consult the Music Major Program Guidesheets for specific course requirements required in the Bachelor of Music degree. All majors must be advised prior to registration each semester.

Music education majors should consult an academic advisor in the College of Education for specific certification requirements.

Bachelor of Music (B.M.)

Music Major (MUSC)

ETSU Academic Proficiency Requirements

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

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

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

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

TBR General Education Requirements ........................................ 41-42 Credit Hours

ENGL 1010 Critical Reading and Expository Writing .................. 3
ENGL 1020 Critical Thinking and Argumentation ...................... 3
Communication: Oral Communication* ..................................... 3
Mathematics* ........................................................................ 3
Natural Sciences* .................................................................. 8
HIST 2010 The United States to 1877 ....................................... 3
HIST 2020 The United States Since 1877 ............................... 3
Humanities/Fine Arts-Literature .............................................. 9
Social/Behavioral Sciences* ................................................... 6

Music Core: ........................................................................... 28 Credit Hours

MUSC 1410 Theory I ............................................................... 2
MUSC 1411 Aural Skills I ......................................................... 1
MUSC 1420 Theory II .............................................................. 2
MUSC 1421 Aural Skills II ......................................................... 1
MUSC 2410 Theory III ............................................................ 2
MUSC 2411 Aural Skills III ....................................................... 1
MUSC 2420 Theory IV ............................................................. 2
MUSC 2421 Aural Skills IV ....................................................... 1
MUSC 2540 Music History I ..................................................... 3
MUSC 2550 Music History II .................................................... 3
MUSC 3540 Music History III .................................................. 3
MUSC 3550 Music History IV .................................................. 3
MUSC 3570 Introduction to Conducting ................................... 2
MUSC 4600 Orchestration & Arranging .................................... 2

Must enroll in Group Piano or Applied Piano until piano proficiency examination is passed.

Select One of the Following:

Music Education Instrumental

K-12 Requirements ............................................................... 51 Credit Hours

MUSC 1040 Class Voice OR two semesters choir .................... 1-2
MUSC 2010 Class Piano III ..................................................... 1
MUSC 2020 Class Piano IV ...................................................... 1
MUSC 2600 String Methods .................................................... 2
MUSC 2630 Woodwind Methods ............................................ 3
MUSC 2660 Brass Methods .................................................... 3
MUSC 2690 Percussion Methods ............................................. 1
MUSC 3590 Instrumental Conducting ..................................... 2
MUSC 4560 Jazz Pedagogy ..................................................... 2
MUSC 4570 Marching Band Methods ....................................... 2
MUSC 4571 Marching Band Internship .................................... 1
MUSC 4580 Organization and Administration ......................... 3
MUSC 4590 Beginning Band/General Music Methods ............. 3
Applied Music ....................................................................... 7
Major Ensemble ..................................................................... 7
Electives .............................................................................. 10

Music Education Vocal/General K-12 Concentration ............ 51 Credit Hours

MUSC 2010 Class Piano III ..................................................... 1
MUSC 2020 Class Piano IV ...................................................... 1
MUSC 2710 Diction I ............................................................... 1
MUSC 2720 Diction II ............................................................. 1
MUSC 3580 Choral Conducting .............................................. 2
MUSC 4510 Music in Elementary School ............................... 3
MUSC 4520 Music in Secondary School ................................. 3
MUSC 4601 Vocal Pedagogy ..................................................... 3
MUSC 4730 Choral Literature .................................................. 3
Applied Voice ...................................................................... 10
Ensemble ............................................................................. 7
Applied Piano ...................................................................... 3
Foreign Language (two semesters of French, German, or Italian; not to be the same language studied in high school) .......... 6
Electives .............................................................................. 10

See ETSU Academic Proficiency Requirements for details.
Performance Concentration

Music Education Keyboard/Vocal K-12 .......... 51 Credit Hours
MUSC 2710 Diction I ......................................... 1
MUSC 2720 Diction II ......................................... 1
MUSC 3580 Choral Conducting ......................... 2
MUSC 3739 Piano Literature I ............................ 1
MUSC 3740 Piano Literature II ........................... 1
MUSC 4510 Music in Elementary School ............ 3
MUSC 4520 Music in Secondary School .............. 3
MUSC 4601 Vocal Pedagogy .............................. 3
MUSC 4617 Teaching Beginning Piano ............... 3
MUSC 4730 Choral Literature ............................ 3
Applied Voice .................................................. 5
Ensemble ....................................................... 7
Applied Piano .................................................. 7
Electives ....................................................... 11

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

Bachelor of Music (B.M.)

Music Major (MUSC)

ETSU Academic Proficiency Requirements

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

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

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

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

TBR General Education Requirements ......... 41-42 Credit Hours
ENGL 1010 Critical Reading and Expository Writing .... 3
ENGL 1020 Critical Thinking and Argumentation .... 3
Communication: Oral Communication* ............... 3
Mathematics* .................................................. 3-4
Natural Sciences* ............................................ 8
HIST 2010 The United States to 1877 .................. 3
HIST 2020 The United States Since 1877 ............. 3
Humanities/Fine Arts* ...................................... 9
Social/Behavioral Sciences* .............................. 6

*For the General Education Core Requirements.

Music Core Requirements .............................. 28 Credit Hours
MUSC 1410 Theory I ......................................... 2
MUSC 1411 Aural Skills I ................................. 1
MUSC 1420 Theory II ....................................... 2
MUSC 1421 Aural Skills II ............................... 1
MUSC 2410 Theory III ..................................... 2
MUSC 2411 Aural Skills III ............................. 1
MUSC 2420 Theory IV ..................................... 2
MUSC 2421 Aural Skills IV ............................. 1
MUSC 2540 Music History I ............................. 3
MUSC 2550 Music History II ........................... 3
MUSC 3540 Music History III .......................... 3
MUSC 3550 Music History IV .......................... 3
MUSC 3570 Introduction to Conducting ............... 2
MUSC 4600 Orchestration & Arranging ............... 2

Performance Concentration

Instrumental Specialty ............................... 51 Credit Hours
MUSC 2010 Class Piano III ......................... 1
MUSC 2020 Class Piano IV ........................... 1
MUSC 3420 Counterpoint .............................. 3

MUSC 3590 Instrumental Conducting ................ 2
MUSC 4750, 4760, 4770, or 4780 ........................
Literature in appropriate applied area ................ 3
MUSC 4751, 4761, 4771, or 4781 .................... 3
Pedagogy in appropriate applied area ............... 3
Applied Music ............................................. 16
Major Ensemble ......................................... 8
Chamber Ensemble ....................................... 4
Electives .................................................. 10

Voice Specialty ............................... 51 Credit Hours
MUSC 2010 Class Piano III ......................... 1
MUSC 2020 Class Piano IV ........................... 1
MUSC 2710 Diction I ....................................... 1
MUSC 2720 Diction II ..................................... 1
MUSC 3420 Counterpoint .............................. 3
MUSC 3580 Choral Conducting ....................... 2
MUSC 4601 Vocal Pedagogy ........................... 3
Applied Voice ............................................. 16
Ensemble ................................................... 8
Music Electives ........................................... 4
Electives ................................................... 5
Foreign Language ........................................ 6

OR

Music Minor ........................................ 28 Credit Hours

Minor in Music ........................................ 28 Credit Hours
Does not meet teacher certification requirements.
MUSC 1030 Introduction to Music ............... 3
MUSC 1400 Music Fundamentals .................... 3
MUSC 1410 Theory I ..................................... 2
MUSC 1411 Aural Skills I ............................. 1
MUSC 1421 Aural Skills II ............................ 1
MUSC 2540 Music History I .......................... 3
MUSC 2550 Music History II ........................ 3
MUSC 3540 Music History III ....................... 3
MUSC 3550 Music History IV ........................ 3
MUSC 3570 Introduction to Conducting ........... 2
MUSC 4600 Orchestration & Arranging ........... 2

Electives** ................................................... 8

Students who wish to pursue teacher certification should see the College of Education requirements.

Department of Philosophy and Humanities
(PhIL) (HUMT)

Box 70656 Phone: (423) 439-4425

Division of Philosophy and Religious Studies

Philosophy is an attempt to reason clearly and critically about all areas of experience: science, religion, art, politics, and morality. Its purpose is to understand and evaluate our most basic beliefs and values, then to integrate them into a coherent view of ourselves and the world.
Philosophy is an appropriate preparation for vocations that require a broad liberal education and skills in clear, creative thinking. Such vocations include law, government service, writing, the ministry, medicine, and many other 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.

B.S. Requirements ........................................ 36 Credit Hours

Philosophy Major (PHIA)

Philosophy Concentration (PHIL)

ETSU Academic Proficiency Requirements

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

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

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

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

TBR General Education Requirements .......... 41-42 Credit Hours

ENGL 1010 Critical Reading and Expository Writing .......... 3
ENGL 1020 Critical Thinking and Argumentation .......... 3
Communication: Oral Communication* ................. 3
Mathematics* .......................................................... 3-4
Natural Sciences* .................................................... 8
HIST 2010 The United States to 1877 .............. 3
HIST 2020 The United States Since 1877 .......... 3
Humanities/Fine Arts* ........................................... 9
Social/Behavioral Sciences* ................................. 6

*See the General Education Core Requirements for options.

Philosophy Major Requirements ..................................... 30 Credit Hours

A minimum of 30 hours is required (at least 21 hours of which must be upper division), including:

PHIL 3010 History of Ancient Philosophy .............. 3
PHIL 3030 History of Modern Philosophy ............ 3
PHIL 4017 Ethical Theory .................................. 3
PHIL 4027 Contemporary Philosophy .................. 4

Choice of one of the following: ................................. 3 Credit Hours

PHIL 2030 Practical Reasoning
PHIL 3050 Symbolic Logic

Plus 14 other hours from PHIL courses or RELI 3230 .......... 14

B.A. Requirements ............................................. 9 Credit Hours

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

Minor Requirements ........................................... 18-27 Credit Hours

Electives .......................................................... 13-22 Credit Hours

Total Hours Required For Degree ......................... 120 Credit Hours

B.S. Requirements ........................................... 8 Credit Hours

MATH 1530 or 1910 ............................................ 3
Science (in addition to General Education Core requirements) .. 5

Minor Requirements ........................................... 18-27 Credit Hours

Electives .......................................................... 10-19 Credit Hours

Total Credit Hours Required For Degree ............ 120 Credit Hours

Bachelor of Arts (B.A.) or Bachelor of Science (B.S.)

Philosophy Major (PHIA)

Philosophy and Religious Studies Concentration (RELI)

ETSU Academic Proficiency Requirements

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

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

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

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

TBR General Education Requirements .......... 41-42 Credit Hours

ENGL 1010 Critical Reading and Expository Writing .......... 3
ENGL 1020 Critical Thinking and Argumentation .............. 3
Communication: Oral Communication* .................. 3
Mathematics* .......................................................... 3-4
Natural Sciences* .................................................... 8
HIST 2010 The United States to 1877 .............. 3
HIST 2020 The United States Since 1877 .......... 3
Humanities/Fine Arts* ........................................... 9
Social/Behavioral Sciences* ................................. 6

*See the General Education Core Requirements for options.

Religious Studies Concentration ................................ 30 Credit Hours

A minimum of 30 hours is required (at least 21 hours of which must be upper division), including:

PHIL 3010 History of Ancient Philosophy .............. 3
PHIL 3030 History of Modern Philosophy ............ 3
At least one course in western religions .................... 3
At least one course in non-western religions ............. 3
PHIL 4017 Ethical Theory .................................. 3

*****
PHIL 4047 Philosophy of Religion ........................................... 3

Additional Courses* ........................................... 12

* The last 12 hours may include any courses in philosophy or in religious studies; they may also include the following specific courses from other departments.

ENGL/RELI 3280 Mythology ........................................... 3
HIST/RELI 3910 History of Christianity ............................. 3
SOAA/RELI 3800 Religion, Society, and Culture ................. 3
HIST/RELI 3920 History of Islam .................................... 3
APST/RELI 3530 Religion in Appalachia ............................ 3

B.A. Requirements .................................................. 9 Credit Hours
Select MATH 1530, 1820, 1840, or 1910 ............................. *
Two courses of a single language at or above the 2000 level.
One course of Non-United States History ............................ 3

Minor Requirements ........................................... 18-27 Credit Hours
Electives ...................................................... 13-23 Credit Hours
Total Hours Required For Degree ....................... 120 Credit Hours

B.S. Requirements .................................................. 8 Credit Hours

Science (in addition to General Education Core requirements) ... 8

Minor Requirements ........................................... 18-27 Credit Hours
Electives ...................................................... 13-22 Credit Hours
Total Hours Required For Degree ....................... 120 Credit Hours

B.S. with a concentration in Social and Behavioral Sciences Requirements ........................................... 12 Credit Hours

MATH 1530 Prob & Stats - Noncalculus ................................ 3
8 credit hours of single laboratory science: ............................. *
3 credit hours from each of the following areas: ...................... 12
(1) Social Statistics
(2) Reasoning and Argumentation
(3) Research Design for Social Science
(subject to departmental restrictions)
(4) Microcomputer Skills

* Satisfies TBR General Education Core Requirement

Minor Requirements ........................................... 18-27 Credit Hours
Electives ...................................................... 13-22 Credit Hours
Total Hours Required For Degree ....................... 120 Credit Hours

PHILOSOPHY MINOR

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

RELIGIOUS STUDIES MINOR

Religious Studies Minor ........................................... 21 Credit Hours
A minimum of 21 hours is required, including:
RELI 2210 Intro to the Study of Religion ................................ 3
At least one course in western religions ............................... 3
At least one course in non-western religions .......................... 3
PHIL 4047 Philosophy of Religion .................................... 3

Other courses in philosophy do not count toward a minor in
religious studies without approval of the department. The
following courses from other departments or other previously
approved courses may be included.

ENGL/RELI 3280 Mythology ........................................... 3
APST/RELI 3530 Religion in Appalachia ................................ 3
SOAA/RELI 3800 Religion, Society, and Culture .................... 3
HIST/RELI 3910 History of Christianity ............................. 3
HIST/RELI 3920 History of Islam .................................... 3

It is possible to major in philosophy and minor in religious studies.

HUMANITIES MINOR

Humanities/Fine Arts seeks to provide a base for students to construct
a better understanding of the spirit and meaning of their civilization. It
draws fully on other departments within the university and attempts to
show the interdependence of the various disciplines. By the consideration
of the vast storehouse of historical, philosophical, religious, and artistic
expressions, students are better able to understand and cope with the many
issues that beset humankind, and they are better able to find meaning for
themselves as individuals. It is designed for the student desiring a firm
background in the humanistic disciplines, and it should be of special interest
to students planning to enter such professions as the ministry, law, or
college teaching.

A minimum of 24 hours is required including:

HUMT 2310 Intro to the Study of Humanities/Fine Arts I ........... 3
HUMT 2320 Intro to the Study of Humanities/Fine Arts II .......... 3
HUMT 4950 Senior Seminar ............................................. 3

Twelve hours must be upper division (3000 level or above).
The specific courses for this program must be approved by the
Humanities/Fine Arts advisor, including courses in the following disciplines:

History
English (literature courses)
Art History
Introduction to Music or Music History
Philosophy and Humanities/Fine Arts

No courses counting toward the students’ major field or Service-Learning
or General Education Core courses may be counted toward satisfying the
Humanities/Fine Arts minor.

Department of Physics, Astronomy, and Geology
(PHYS)(ASTR)(GEOL)

Box 70652 Phone: 423/439-4231

Physics is the study of the properties of matter, energy, radiation, and
their interactions. It is generally regarded as basic to all the natural sciences,
and as such is a fundamental part of the professional preparation of
biologists, chemists, engineers, and other scientists and technologists.

The major program in physics provides the foundation for a broad
spectrum of challenging careers in scientific and non-scientific fields.
Baccalaureate physics majors find employment opportunities as, for example,
research associates in commercial and government laboratories, sales and
engineering representatives for manufacturers of technical products,
industrial management trainees, and teachers at the secondary school level.

Most of ETSU’s graduates in physics continue their studies in graduate
and professional schools, where they specialize in a wide variety of
disciplines.

Major – A major in physics at the bachelor’s level requires a minimum of
34 credit hours of study in physics. These shall include the following courses.

Bachelor of Science Degree (B.S.)
Physics Major (PHYS)

ETSU Academic Proficiency Requirements

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

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

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

**TBR General Education Requirements** .......... 42 Credit Hours

**ENSL 1010** Critical Reading and Expository Writing .......... 3

**ENSL 1020** Critical Thinking and Argumentation ............... 3

**Communication: Oral Communication** .................... 3

**MATH 1910** Calculus .............................................. 4

**Natural Sciences** ...................................................... 8

**HIST 2010** The United States to 1877 ......................... 3

**Humanities/Fine Arts** ............................................... 9

**Social/Behavioral Sciences** ....................................... 6

*See the General Education Core Requirements for options.*

**Physics Major Requirements** ......................... 34 Credit Hours

**PHYS 2110/20** Tech. Physics-Calc. based on .................................................. 10

**PHYS 3010** Mechanics ..................................................... 4

**PHYS 3710** Electricity and Magnetism ........................ 4

**At least one of the advanced courses:**

**PHYS 4117** Thermal and Statistical Physics ................. 4

**or**

**PHYS 4617** Quantum Physics ......................................... 4

**or**

**PHYS 4717** Electromagnetic Theory ............................ 4

**Physics electives chosen from:** ..................................... 12

**ASTR 3415** Astrophysics ............................................. 3

**ASTR 3970** Variable Stars ........................................... 2

**PHYS 3210** Optics ....................................................... 4

**PHYS 3310** Electrical Measurements .......................... 4

**PHYS 3510** Introduction to Biophysics .......................... 3

**PHYS 3610** Introduction to Atomic and Nuclear Physics

**PHYS 4007/5007** Computational Physics ..................... 3

**PHYS 4117** Thermal and Statistical Physics ................. 4

**PHYS 4617** Quantum Physics ........................................ 4

**PHYS 4717** Electromagnetic Theory .......................... 4

**PHYS 4850** Seminar in Physics .................................. 1

**PHYS 4860** Special Topics in Physics ........................... 1-3

**PHYS 4900** Independent Studies .................................. 1-3

**B.S. Requirements** .................................................. *

* See departmental requirements for Math, Phys. 2110/2120 meets 8 hours of single laboratory science requirements.

**Minor** ................................................................. 18-27 Credit Hours

**Electives** ............................................................... 17-26 Credit Hours

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

**Suggested Course Sequence**

**Freshman Year**

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<td>First Semester</td>
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**Senior Year**

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Students are also strongly encouraged to take mathematics at least through ordinary differential equations, and such additional elective courses in physics, mathematics, and chemistry as their curriculum will permit.

All major programs in physics must be approved by the chair of the department.

To complete university graduation requirements, students must complete a minor in another subject area.

Department of Physics, Astronomy, and Geology offers a major in physics with the B.S. degree. The physics major must satisfy the General Education Core Requirements and B.S. requirements at the beginning of the College of Arts and Sciences section of this catalog.

**Minor** – A minor in physics at the bachelor's level requires a minimum of 20 credit hours of study in physics, distributed as follows:

**Minor Requirements** .................................................. 20 Credit Hours

**PHYS 2110-20** Technical Physics- Calc. based I, II .................. 10

**Electives chosen from:**

**PHYS 3010, 3110, 3210, 3310, 3510, 3610, 3710, 4117, 4617, 4717, 4850, 4860, 4900** .................................................. 10

**Transfer Students** – Transfer students majoring in physics should contact the chair of the department for advising as soon as possible. This will ensure that the student's previous work will be coordinated efficiently with ETSU requirements.

**Teacher Education** – Students interested in pursuing a teacher education program for certification as a physics teacher in grades 7-12 are asked to see the department chair in Department of Physics, Astronomy, and Geology AND the professional advisor in the Office of Student Services, 321 Warf-Pickel, College of Education.

**Pre-Teacher Education** – Declaration of Intent – All ETSU students desiring to complete a teacher education or other public school licensure program (for initial licensure, add-on endorsement, or advanced study in education) must file a Declaration of Intent in the Office of Student Services, 321 Warf-Pickel Hall. The Declaration of Intent must be filed before 30 credit hours of coursework have been completed or, in the case of transfer and post-baccalaureate students, in the first semester at ETSU. Delay or failure to file the Declaration of Intent may result in incomplete advisement. Students who have not filed the Declaration of Intent will not be considered for admission to teacher education and may be ineligible to enroll in many professional education courses.
Professional Education Requirements – There is a total of 36 credit hours required for Professional Education. Please refer to the Education Minor section in this catalog for a list of the required courses that must be taken with the professional semester.

Graduate Study – Students interested in graduate studies in physics may elect to participate in the mathematical sciences program. Further information is contained in the Graduate Catalog.

Bachelor of Science Degree (B.S.)
Geology Major (GEOL)

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

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

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

Transfer students may be subject to reduced number of intensives.

See ETSU Academic Proficiency Requirements for details.

Geology is the study of the Earth, its materials, processes, and development through time. The science of geology involves the application of knowledge about the Earth’s physical system to modern problems of mineral resources, fuels and energy, engineering, physical hazards, and the environment. Geologists work with fossils and rocks to interpret the past and look to astronomy and space science in seeking answers about the origins of our planet. The study of geology provides the student with a practical and aesthetic appreciation of our planet and may be directed toward a vocation as a professional geologist or employment in one of the many associated areas.

TBR General Education Requirements ................. 42 Credit Hours

ENGL 1010 Critical Reading and Expository Writing .......... 3
ENGL 1020 Critical Thinking and Argumentation .............. 3
Communication: Oral Communication* ........................................... 3
MATH 1910 Calculus I ................................................................. 4
Natural Science ............................................................................ 8
HIST 2010 The United States to 1877 .................................. 3
HIST 2020 The United States Since 1877 ............................... 3
Humanities/Fine Arts* ................................................................. 6
Social/Behavioral Sciences* ....................................................... 6
*See TBR General Education Core Requirements.

A major in geology consists of 36 hours. The geology core requirement consists of 27 hours as listed below. An additional 9 hours of geology electives are required, as well as 24 additional hours of math and other sciences. A student choosing this major must also complete a minor. Physics, Biology, Chemistry, or Mathematics is recommended.

Geology Major Core Requirements ........................................... 27

GEOL 1040 Physical Geology .................................................. 4
GEOL 1050 Historical Geology ................................................. 4
GEOL 3001 Mineralogy .............................................................. 4
GEOL 3391 Invertebrate Paleontology or
GEOL 3395 Vertebrate Paleontology ....................................... 4
GEOL 4120 Petrography .......................................................... 4
GEOL 4217 GIS .................................................................... 3
GEOL 4617 Structural Geology ................................................ 4

Electives: Choose 9 hours ....................................................... 9

GEOL 2000 Earth Systems and Global Change .................... 4
GEOL 2020 Scientific Methods in Earth Sciences ............... 4
GEOL 2040 Geohazards ......................................................... 3
GEOL 2050 Earth Resources .................................................. 3

GEOL 2480 Geology Field Methods ........................................ 4
GEOL 2500 Dinosaurs: History and Evolution ....................... 2
GEOL 3120 Economic Geology ............................................... 4
GEOL 3335 Introduction to Geophysics .................................... 4
GEOL 3400 Geologic Illustration ............................................. 2
GEOL 3481 Environmental Geology ........................................ 4
GEOL 4457 Plate Tectonics ...................................................... 4
GEOL 4540 Sedimentation-Stratigraphy ................................. 4
GEOL 4587 Engineering Geology ............................................. 4
GEOL 4857 Principles of Hydrogeology ................................. 4
GEOL 4889 Cooperative Education ........................................ 3
GEOL 4899 Senior Thesis ....................................................... 3
GEOL 4905 Independent Study .............................................. 4

Additional Requirements ...................................................... 20

MATH 1920 Calculus II ........................................................... 4

Any two of the following three science sequences:

PHYS 2010/11 General Physics I and ........................................ 4
PHYS 2020/21 General Physics II or ........................................ 4
CHEM 1100/11 General Chemistry I and .............................. 4
CHEM 1120/21 General Chemistry II or ................................. 4
Biol 1110/11 Biology for Science Majors I and ....................... 4
Biol 1120/21 Biology for Science Majors II ............................. 4

Suggested Course Sequence

Freshman Year

First Semester .................................................. 15
ENGL 1010 Critical Reading and Expository Writing ............ 3
MATH 1910 Calculus I ......................................................... 4
GEOL 1040 Physical Geology ................................................. 4
CHEM 1100/11 General Chemistry I/II ................................... 4

Semester Total ............................................. 15

Second Semester ........................................... 17
ENGL 1020 Critical Thinking and Argumentation .................. 3
GEOL 1050 Historical Geology .............................................. 4
MATH 1920 Calculus II ....................................................... 4
CHEM 1100/11 General Chemistry I/II ................................... 4

Semester Total ............................................. 17

Sophomore Year

First Semester .................................................. 17
GEOL 3001 Mineralogy ......................................................... 4

Second Semester ........................................... 14
PHYS 2010/11 General Physics I Lecture/Lab ......................... 4
HIST 2020 The United States Since 1877 ............................... 3

Semester Total ............................................. 17

Junior Year

First Semester .................................................. 13
GEOL 4120 Petrography .................................................... 4

Second Semester ........................................... 8
GEOL Elective ................................................................. 3
Social/Behavioral Sciences Elective ........................................ 3
Minor Requirements ......................................................... 4

Semester Total ............................................. 17

Senior Year

First Semester .................................................. 17
GEOL 3391 Invertebrate Paleontology or
GEOL 3395 Vertebrate Paleontology ..................................... 4
GEOL 4617 Structural Geology .............................................. 4

Second Semester ........................................... 6
GEOL 4540 Sedimentation-Stratigraphy ................................. 4
GEOL Elective ................................................................. 3
Minor Requirements ......................................................... 4

Semester Total ............................................. 13

Total .......................................................... 120 Credit Hours
A minor in geology consists of 22 hours. The course requirements are listed below.

**Geology Minor Requirements** .................................................. 22
GEOL 1040 Physical Geology ................................................. 4
GEOL 1050 Historical Geology .............................................. 4
GEOL 3001 Mineralogy ............................................................ 4
GEOL 4120 Petrography ............................................................ 4
GEOL Electives ............................................................................. 6

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**Department of Political Science (PSCI)**

Box 70651  Phone: (423) 439-4217

Political Science is the study of government, politics, and public affairs in the United States and other countries, and of the relations among nations and states in the world community. The Political Science curriculum is designed to provide students with factual knowledge of these subjects and with the ability to critically analyze and evaluate competing ideologies, governmental systems, political practices, and policy proposals. The study of Political Science prepares students to be informed and engaged citizens as well as to pursue careers in law, public affairs and many other fields.

**Major – Students majoring in Political Science must complete requirements for the General Education Program, both the core curriculum requirements and the requirements reinforcing academic proficiencies (see General Education Program section of this catalog). Students must also complete the degree requirements of the College of Arts and Sciences, either for the Bachelor of Arts (B.A.), or the Bachelor of Science (B.S.), or the Bachelor of Science with a social and behavioral sciences concentration (B.S.). (See College of Arts and Sciences degree requirements in this catalog.)**

The Political Science major itself requires the completion of 36 semester credit hours.

**ETSU Academic Proficiency Requirements**

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

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

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

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

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**TBR General Education Requirements** ............ 41-42 Credit Hours
ENGL 1010 Critical Reading and Expository Writing .......... 3
ENGL 1020 Critical Thinking and Argumentation ................. 3
Communication: Oral Communication* ............................... 3
Mathematics* ................................................................. 3-4
Natural Sciences* .......................................................... 8
HIST 2010 The United States to 1877 ............................ 3
HIST 2020 The United States Since 1877 ....................... 3
Humanities/Fine Arts* .................................................. 9
Social/Behavioral Sciences* ......................................... 6

*See the General Education Core Requirements for options.

**Political Science Major Requirements** ............... 36 Credit Hours
PSCI 1110 Political Life ...................................................... 3 credits
PSCI 1120 Intro. to American Government .................. 3 credits
PSCI 2210 Introduction to Comparative Politics
or
PSCI 2220 Introduction to World Politics ..................... 3 credits
PSCI 3344 Microcomputers as a Research Tool
or
SOAA 3444 Data Analysis
or
PSYC 3444 Microcomputers as a Research Tool .... 3 credits

One course at or above the 3000 level in each of the (5) five sub-fields:
- American Politics (AP) ............................................. 3 credits
- Comparative Politics (CP) ......................................... 3 credits
- International Relations (IR) ...................................... 3 credits
- Political Theory (PT) ................................................. 3 credits
- Public Law (PL) ........................................................ 3 credits

Three courses to be selected freely from the Department’s offerings ........................................... 9 credits

**B.A. Requirements** ...................................................... 9 Credit Hours
Select MATH 1530, 1840, or 1910 ..................................... *
Two courses of a single language at or above the 2000 level .......... 6
One course of Non-United States History .......................... 3

B.S. Requirements .................................................. 8 Credit Hours
MATH 1850 or 1910 ....................................................... *
Science (in addition to General Education Core requirements) .......... 8

B.S./S.S. Requirements ................................................. 9 Credit Hours
MATH 1530 ................................................................. *
Single Laboratory Science ............................................. *
Research ........................................................................ 9
Minor Requirements .................................................. 18-27 Credit Hours
Electives ................................................................... 13-22 Credit Hours

Total Credit Hours Required For Degree .................. 120 Credit Hours

**Political Science Minor** .................................................. 24 Credit Hours
PSCI 1110 Political Life ...................................................... 3 credits
PSCI 1120 Intro. to American Government .................. 3 credits
PSCI 2210 Introduction to Comparative Politics
or
PSCI 2220 Introduction to World Politics ..................... 3 credits

One course at or above the 3000 level in any two of the (5) five sub-fields ............................................. 6 credits
Three courses to be selected freely from the Department’s offerings .................................................. 9 credits

**Transfer Students** - Transfer students must meet the specific requirements for the major or minor and must complete at least nine credit hours and maintain a minimum grade point average of 2.0 in their courses in Political Science (see section of this catalog on transfer students for other requirements).

**Teacher Education** - Students interested in pursuing a teacher education program for certification as a government teacher in grades 7-12 are asked to see an advisor in the Department of Political Science and the professional advisor in the College of Education in 321 Warf-Pickel Hall.

**Pre-Teacher Education** - Declaration of Intent-All students desiring to complete a teacher education program or other public school licensure program must file a Declaration of Intent in 321 Warf-Pickel Hall. For filing deadlines and other information, see the professional advisor in 321 Warf-Pickel.

**Professional Education Requirements** – There is a total of 36 credit hours required for Professional Education. Please refer to the Education Minor section in this catalog for a list of the required courses that must be taken with the professional semester.
pursuing post-baccalaureate employment in psychological and human.
well-rounded education within psychology, both for students interested in
support the scientific investigation of behavior and mental processes. The department's undergraduate curriculum ... cognitive science, clinical psychological science, and child psychological science. All programs of study provide a
The primary goals of the Department of Psychology are to encourage and support the scientific investigation of behavior and mental processes. The department's undergraduate curriculum provides general and intensive courses of study within psychology, with concentrations in general psychology, behavioral neuroscience, cognitive science, clinical psychological science, and child psychological science. All programs of study provide a well-rounded education within psychology, both for students interested in pursuing post-baccalaureate employment in psychological and human-service related professions, and for students interested in pursuing post-graduate study in psychology and related fields.
In addition to the requirements listed, a student majoring in psychology
must complete requirements for the General Education Core and the College of Arts and Sciences requirements for the B.A., B.S., or the B.S. in the social and behavioral sciences, listed in this catalog under the College of Arts and Sciences.

ETSU Academic Proficiency Requirements
Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.
Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.
Using Information Technology: Students must pass the information technology proficiency exam or successfully complete CSCI 1100, Using Information Technology, during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students must complete at least one using information technology-intensive course in the major field of study.
Transfer students may be subject to reduced number of intensives. See ETSU Academic Proficiency Requirements for details.

TBR General Education Requirements ............... 41 Credit Hours
ENGL 1010 Critical Reading and Expository Writing .......... 3
ENGL 1020 Critical Thinking and Argumentation .......... 3
Communication: Oral Communication* .......... 3
MATH 1530 Probability and Statistics .......... 3
Natural Sciences ...................... 8
HIST 2010 The United States to 1877 ............... 3
HIST 2020 The United States Since 1877 ............... 3
Social/Behavioral Sciences* ...................... 9

* See the General Education Core Requirements for options.

Psychology Core Requirements for All Psychology Concentrations:
PSYC 1310 Introduction to Psychology ............... 3
PSYC 2000 Social Psychology ............... 3
PSYC 3100 Elementary Statistics ............... 3
PSYC 3200/01 Principles of Psychological Research ............... 4
PSYC 3707 Behavioral Neuroscience ............... 3
PSYC 4010 History and Systems ............... 3
PSYC 4320 Abnormal Psychology ............... 3
PSYC 4321 Writing in Abnormal Psychology ............... 1

One of the following:
PSYC 4100 Introduction to the Study of Personality ............... 3
PSYC 4817 Introduction to Psychological Testing ............... 3

One of the following:
PSYC 2500 Behavior Modification ............... 3
PSYC 3600 Cognition ............... 3
PSYC 4317 Perception ............... 3
HDAL 4010 Managing Child Behavior ............... 3
HDAL 4260 Learning in Human Development ............... 3

And 6 of the following zero credit courses:
PSYC 1019, 1020, 2019, 2020, 3019, 3020, 4019, 4020 ............... 0

Total Core Psychology Hours ............... 29

Core Allied Requirements for All Psychology Concentrations:
MATH 1530* Probability and Statistics ............... 3
HDAL 2310 Developmental Life Span Psychology ............... 3
PHIL 2040 Philosophy as Conversation ............... 3
PHIL 2640** Science and the Modern World ............... 3

Total for Core Allied Hours ............... 12

* Satisfies B.A. or B.S./S.S. General Education Math
** Satisfies General Education Humanities/Fine Arts elective

B.A. Requirements ...................... 9 Credit Hours
Select MATH 1530, 1840, or 1910 ............... *
Two courses of a single language at or above the 2000 level ............... 6
One course of Non-United States History ............... 3
**B.S. Requirements** .................................................... 8 Credit Hours

- MATH 1850 or 1910 .......................................................... *
- Science (in addition to General Education Core requirements) ... 6

**B.S./S.S. Requirements** .................................................. 6 Credit Hours

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

**Total Credit Hours Required For Degree 120 Credit Hours**

### General Psychology Concentration:

PSYC electives ........................................................................ 6

### Additional Allied Requirements for General Psychology:

- BIOL 1010/11 Biology for Non-majors I .................................... 4

### Behavioral Neuroscience Concentration:

- PSYC 4407 Psychopharmacology ............................................ 3
- PSYC 4707 Advanced Behavioral Neuroscience ....................... 4

### Additional Allied requirements for Behavioral Neuroscience:

- BIOL 1110/11 Biology for Science Majors I ................................ 4
- BIOL 1120/21 Biology for Science Majors II ............................. 4
- BIOL 1130/31 Biology for Science Majors III ............................ 4
- BIOL 3100/41 General Genetics with Lab ................................... 5
- BIOL 3150 Cell Biology ...................................................... 3
- BIOL 4287 Experimental Animal Behavior ................................ 4

### Recommended Allied Courses for Behavioral Neuroscience:

- CHEM 1110/11 General Chemistry I ...................................... 4
- CHEM 1111/21 General Chemistry II ...................................... 4
- HSCI 3030 Biochemistry .................................................... 3

### Cognitive Science Concentration:

- PSYC 3460 The Cognitive Growth of Infants & Children ......... 3
- PSYC 3600 Cognition .......................................................... 3
- PSYC 4407 Psychopharmacology .......................................... 3

### Additional Allied requirements for Cognitive Science:

- BIOL 1010/11 Biology for Non-majors I .................................... 4
- PHIL 3010 History of Ancient Philosophy .................................... 3
- PHIL 3030 History of Modern Philosophy ................................. 3
- PHIL 3050 Symbolic Logic ................................................... 3
- PHIL 4957 Special Topics: Philosophy of the Mind ................. 3

### Three of the following language courses:

- CDIS 4060 Language Development ........................................... 3
- ENGL 3100 Introduction to Linguistics ..................................... 3
- ENGL 4120 Descriptive Linguistics ......................................... 3
- ENGL 4130 Social & Psychological Aspects of Language ......... 3
- PHIL 4957 Special Topics: Philosophy of Language ................. 3

### Clinical Psychological Science Concentration:

- Take one of the following child-oriented courses:
  - PSYC 3470 Psychosocial Growth of Infants & Children ........ 3
  - PSYC 4607 Child Psychopathology ....................................... 3

- Take two of the following applied courses:
  - PSYC 3500 Ecopsychology ................................................ 3
  - PSYC 3700 Health Psychology ............................................... 3
  - PSYC 4407 Psychopharmacology .......................................... 3
  - PSYC 4807 Forensic Psychology ............................................ 3
  - PSYC 4817 Introduction to Psychological Testing ............... 3
  - Senior Level Internship or Service-Learning ......................... 3
  - Independent Study or Honor’s Thesis ...................................... 3

### Additional Allied requirements for Clinical Psychological Science:

- BIOL 1110/11 Biology for Science Majors I ......................... 4
- SOAA 1020 Introduction to Sociology ...................................... 3

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**Child Psychological Science Concentration:**

- PSYC 3460 The Cognitive Growth of Infants & Children ........ 3
- PSYC 470  The Psychosocial Growth of Infants & Children ........ 3

### Additional Allied requirements for Child Psychological Science:

- BIOL 1010/11 Biology for Non-majors I .................................... 4
- CDIS 4060 Language Development ........................................... 3
- SOAA 3320 Juvenile Delinquency ............................................. 3
- HDAL 2320 Child Psychology ................................................ 3
- HDAL 3310 Educational Psychology ........................................ 3
- HDAL 4010 Managing Child Behavior ...................................... 3
- HDAL 4011 Developmental Psychology II ............................... 3
- HDAL 4260 Learning in Human Development .......................... 3
- HDAL 4666 Cultural Influences in Development ....................... 3

No grade below a “C” will be accepted in psychology major courses. Psychology majors also are required to complete a minor in another discipline. Students completing the following concentrations will automatically complete the coursework sufficient for the indicated minor:

### Concentration Minor

- Behavior Neuroscience .......................................................... Biological Sciences
- Cognitive Science ........................................................................ Philosophy
- Clinical Psychology ........................................................................ Sociology
- Child Psychological Science .......................................................... Human Development and Learning

**Minor - Nineteen hours in psychology are required. No grade below “C” will be accepted in minor courses.**

### Psychology Minor Requirements ........................................ 19 Credit Hours

- PSYC 1310 Introduction to Psychology ..................................... 3
- PSYC 2000 Social Psychology .................................................. 3
- PSYC 3100 Elementary Statistics .............................................. 3
- PSYC 3200, 3201 Principles of Psychological Research ............ 4
- Psychology Electives .................................................................. 6

**Advising** - Academic and professional advising is recommended for all psychology majors. Students are encouraged to read the catalog to determine requirements for the degree they are seeking. Students are responsible for knowing the program requirements.

**Teacher Education** - Students interested in pursuing a teacher education program for certification as a psychology teacher in grades 7-12 are asked to contact the area psychology advisor in the Office of Student Services, 321 Warf-Pickel Hall, College of Education.

**Pre-Teacher Education** - Declaration of Intent - All ETSU students desiring to complete a teacher education or other public school licensure program (for initial licensure, add-on endorsement, or advanced study in education) must file a Declaration of Intent in the Office of Student Services, 321 Warf-Pickel Hall. The Declaration of Intent should be filed before 30 credit hours of coursework have been completed or, in the case of transfer and post-baccalaureate students, in the first semester at ETSU. Delay or failure to file the Declaration of Intent may result in incomplete advisement. Students who have not filed the Declaration of Intent will not be considered for admission to teacher education and may be ineligible to enroll in many professional education courses.

Please refer to the Professional Education Requirement section in the Department of Education in this catalog for a list of the required courses.
Graduate Study - The Department of Psychology offers a master of arts degree in psychology, with options in general and clinical psychology. Further information on graduate programs is provided in the Graduate Catalog.

Suggested Course Sequence
for all B.S. Psychology Majors with a Concentration in the Social and Behavioral Sciences*

**Freshman Year**

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<th>Credit Hours</th>
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<td>HIST 2010 The United States to 1877</td>
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<td>PSYC 2030 or SPCH 2320</td>
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**Second Semester**

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<tr>
<td>ENGL 1020 Critical Thinking and Argumentation</td>
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<tr>
<td>MATH 1530 Probability and Statistics</td>
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<td>PSYC 1310 Introduction to Psychology</td>
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<td>Fine Arts</td>
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<td>Semester Total</td>
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**Sophomore Year**

<table>
<thead>
<tr>
<th>First Semester</th>
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<tbody>
<tr>
<td>BIOL 1100/1110 Biology for Science Majors Lecture/Lab I</td>
<td>4</td>
</tr>
<tr>
<td>HDAL 2310 Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Communication: Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>Literature</td>
<td>3</td>
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<td>Semester Total</td>
<td>13</td>
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<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2100/2110 Biology for Science Majors Lecture/Lab II</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 2000 Social Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 4100 or 4817 Science and the Modern World</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 2040 Philosophy as Conversation</td>
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<td>Semester Total</td>
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**Junior Year**

<table>
<thead>
<tr>
<th>First Semester</th>
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<tbody>
<tr>
<td>PSYC 3707 Behavioral Neuroscience</td>
<td>3</td>
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<td>PSYC 3100 Elementary Statistics</td>
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<table>
<thead>
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<tbody>
<tr>
<td>PSYC 2000/2010 Principles of Psychological Research and Lab</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 4100 or 4817</td>
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</tr>
<tr>
<td>Minor Course</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
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</tr>
<tr>
<td>PSYC 4320 Abnormal Psychology</td>
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<td>PSYC 4321 Writing in Abnormal Psychology</td>
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</tr>
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<td>Semester Total</td>
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</tr>
</tbody>
</table>

**Senior Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 4010 History &amp; Systems of Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Minor Course</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
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</tr>
<tr>
<td>PSYC Elective</td>
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<td>Semester Total</td>
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<table>
<thead>
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<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>Minor Course</td>
<td>6</td>
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<tr>
<td>Electives</td>
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</tr>
<tr>
<td>Total Credit Hours</td>
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</tr>
</tbody>
</table>

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Department of Social Work (SOWK)

Box 70645 Phone: (423) 439-6006

B.S.W. Major Accredited by: Council on Social Work Education

The Department of Social Work offers an undergraduate curriculum leading to the bachelor of social work (BSW) degree. The program provides a basic knowledge of the social welfare system, the social work profession, and the professional knowledge, values, and skills necessary for entry-level professional social work practice as a generalist. The program also prepares students to pursue graduate study in social work and related professions.

The program builds upon a liberal arts base and encompasses an interdisciplinary perspective, drawing from such fields as psychology, sociology, political science, and human biology.

The program’s overall mission is to prepare students for entry-level generalist practice in a culturally diverse society and to instill in those students a lifelong commitment to addressing social problems and to challenging all forms of oppression and injustice. The total program functions to provide leadership and instruction that will ensure preparation of a continuous pool of social work graduates who are able to assume professional positions in a variety of social welfare settings, particularly in Northeastern Tennessee and the southern Appalachian region. The mission of ETSU’s B.S.W. Program supports the philosophy of social work and its major aim to restore, maintain, enhance, and promote the social functioning of individuals, families, groups, organizations, and communities by helping them to accomplish life tasks, to prevent and alleviate distress, and to utilize resources.

The faculty believes that the philosophy of social work must be demonstrated as it is taught and, as such, must be incorporated into not only faculty-student relationships but also relationships between the program and the social work practice community. The social work faculty believes that social workers should function in accordance with the profession’s purpose and with adherence to the profession’s ethical canon and therefore programmatically emphasizes acceptance of difference between and among individuals, as well as within and among groups and other larger systems.

The Baccalaureate Social Work Program’s mission is reflected and implemented in the seven broad goals of the program.

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

**B.S.W. Program Objectives**

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

1. Apply critical thinking skills within the context of professional social work practice.
2. Practice within the values and ethics of the social work profession and with an understanding of and respect for the positive value of diversity.
3. Demonstrate professional use of self.

4. Understand the forms and mechanisms of oppression and discrimination and the strategies of change that advance social and economic justice.

5. Understand the history of the social work profession and its current structures and issues.

6. Apply the knowledge and skills of generalist social work to practice with systems of all sizes.

7. Apply knowledge of bio-psycho-social variables that affect individual development and behavior, and use theoretical frameworks to understand the interactions among individuals and between individuals and social systems (i.e., families, groups, organizations, and communities).

8. Analyze the impact of social policies on client systems, workers, and agencies.

9. Evaluate research studies and apply findings to practice, and, under supervision, to evaluate their own practice interventions and those of other relevant systems.

10. Draw on practice knowledge and skills to interact effectively with clients, colleagues, and individuals in other practice contexts who have differing social, cultural, racial, religious, spiritual, sexual orientation, and class backgrounds.

11. Use supervision appropriate to generalist practice.

12. Function within the structure of organizations and service delivery systems, and under supervision, seek necessary organizational change.

13. Function effectively as generalist practitioners, particularly in the culturally diverse area of Northeastern Tennessee and the Southern Appalachian region.

14. Use a variety of learning strategies to promote lifelong learning and ongoing professional development.

15. Identify how personal values can impact service delivery and reconcile value conflicts that will prevent effective service provision.

Social work majors must take 41 credit hours to fulfill the General Education Core Requirements, 48 credit hours of social work courses, 6 credit hours of cognates, and the remainder of credit hours in academic proficiencies and electives, for a total of 120 credit hours required for graduation. Social work majors must complete 12 credit hours in social and behavioral sciences. Six credit hours in the social and behavioral sciences, Sociology 1020 and Psychology 1310, are taken as part of the General Education Core Requirements. The remaining six hours are required cognates, Political Science 1120 and HDAL 2310. As part of the General Education Core Requirements, social work majors must complete 8 credit hours in the sciences, with 4 of those credits in human biology chosen from the following list: Biology 1010/11, 1110/11, or Health Sciences 2010/11. The remaining 4 credit hours of science can be fulfilled by any of the other core science courses. Math 1530 is required to fulfill the General Education Core Requirement in math.

All social work majors are required to complete the curriculum outlined below. All students who enroll in social work courses must comply with course sequencing and course prerequisites. Academic credit for life experience and previous work experience shall not be given in whole or in part, in lieu of the field practicum or any other required social work course.

**Social Work Major** – Forty-eight credit hours in social work plus Political Science 1120 and HDAL 2310. A grade of “C-” or below will not be accepted in the required SOWK courses offered by the program, and in English composition. A minor is not required for social work majors.

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**Bachelor of Social Work (B.S.W.)**

**Social Work Major (SOWK)**

**ETSU Academic Proficiency Requirements**

**Writing:** Students must complete a minimum of four writing-intensive courses. At least two of these courses are SOWK courses. At least two of the four courses must be at the 3000-4000 level.

**Oral Communication:** Students must complete a minimum of two oral communication-intensive courses. At least one of these courses is a SOWK course.

**Using Information Technology:** Students must pass the information technology proficiency exam or successfully complete CSCI 1100, Using Information Technology, during their first calendar year or prior to accumulating 33 semester credits at ETSU. In addition, students will complete one technology-intensive course as part of the SOWK coursework.

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

**TBR General Education Requirements**

**Bachelor of Social Work (B.S.W.)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Critical Reading and Expository Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1020</td>
<td>Critical Thinking and Argumentation</td>
<td>3</td>
</tr>
<tr>
<td>SOAA 1020</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1530</td>
<td>Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 1010/11</td>
<td>Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 2010/11</td>
<td>Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>Natural Science*</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>HIST 2010</td>
<td>The United States to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2020</td>
<td>The United States Since 1877</td>
<td>3</td>
</tr>
<tr>
<td>SOAW 1020</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 1310</td>
<td>Introduction to Psychology</td>
<td>3</td>
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</tbody>
</table>

*See the General Education Core Requirements for options.

**Social Work Major Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOWK 1010</td>
<td>Introduction to Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 1020</td>
<td>Professional Values and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 1030</td>
<td>Cultural Diversity</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 2500</td>
<td>Interviewing and Recording Skills</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 3000</td>
<td>Human Behavior/Social Environment I</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 3010</td>
<td>Human Behavior/Social Environment II</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 3430</td>
<td>Social Welfare Policy and Services</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 4210</td>
<td>Social Work Research</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 4310</td>
<td>Social Work Practice I</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 4320</td>
<td>Social Work Practice II</td>
<td>4</td>
</tr>
<tr>
<td>SOWK 4453</td>
<td>Social Work Field Practicum</td>
<td>16</td>
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**Cognate Requirements in Social and Behavioral Sciences**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSCI 1120</td>
<td>Introduction to American Government</td>
<td>3</td>
</tr>
<tr>
<td>HDAL 2310</td>
<td>Developmental Life Span Psychology</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Electives</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Hours Required for Degree</strong></td>
<td>120 Credit Hours</td>
</tr>
</tbody>
</table>

If two writing-intensive courses are not taken as part of fulfilling core requirements, and if student does not test out of CSCI 1100, the number of credit hours available for use as electives is reduced accordingly.

**Suggested Course Sequence**

<table>
<thead>
<tr>
<th>Semester</th>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Credit Hours</strong></td>
<td><strong>Credit Hours</strong></td>
<td></td>
</tr>
<tr>
<td>SOWK 1010</td>
<td>Introduction to Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 1020</td>
<td>Professional Values and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1010</td>
<td>Critical Reading and Expository Writing</td>
<td>3</td>
</tr>
<tr>
<td>SOAA 1020</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1530</td>
<td>Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Semester Total</td>
<td>15</td>
<td>16</td>
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</tbody>
</table>
## REQUIREMENTS FOR ALL SOCIAL WORK MINORS

### Social Work Major Requirements

(18 Credit Hours) (The Council on Social Work Education does not accept minor programs of study.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOWK 1010</td>
<td>Introduction to Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 1020</td>
<td>Professional Values and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 1030</td>
<td>Cultural Diversity</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 2500</td>
<td>Interviewing and Recording Skills</td>
<td>3</td>
</tr>
</tbody>
</table>

**Other Course Options**

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOWK 2400</td>
<td>Rural and Appalachian Social Culture</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 3000</td>
<td>Human Behavior/Social Environment I</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 3010</td>
<td>Human Behavior/Social Environment II</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 3430</td>
<td>Social Welfare Policy and Services</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 4367</td>
<td>Seminar in Drug/Alcohol Abuse</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 4517</td>
<td>Crisis Intervention</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 4567</td>
<td>Human Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 4957</td>
<td>Special Topics in Social Work</td>
<td>3-6</td>
</tr>
</tbody>
</table>

(See prerequisites under course listing.)

A grade of “C-” or below will not be accepted for SOWK courses taken for the minor and no more than six (6) hours will be accepted as transfer SOWK credit.

### TRANSFER STUDENTS

#### Course Sequencing and Suggested Schedule

The plan below for entry to ETSU assumes that SOWK 1010 (Intro), PSYC 1310 (Intro), SOAA 1020 (Intro), MATH 1530, CSCI 1100 (or test out), and one human biology course (BIOL 1010/11, 1020/21, 1110/11, or HSCI 2100/10) 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.

### Admission

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

Only students who have formally applied for admission to the program and been approved are eligible to take Social Work Practice I and II. Transfer students, as well as ETSU students who declare social work as their major, must arrange an interview with the BSW Program Director during their first semester in social work in order to open a file and complete other paperwork.

### Continuance and Termination

- Continuance in the program requires compliance with admission requirements and suitability standards, as outlined in the program’s Academic Performance Review Policy and Code of Conduct. (See Student Handbook and www.etsu.edu/socialwork.)

### Nondiscrimination

- Every aspect of the Social Work program's organization and implementation is conducted without discrimination on the basis of race, color, gender, age, creed, ethnic or national origin, disability, or political or sexual orientation.

### Advising

- Advising, both academic and professional, is essential in social work education. Therefore, advising of all social work majors is required throughout their period of study. Students must sign up for appointments with their advisors during each pre-registration period to be advised and cleared for registration. Until students are in a semester during which they will complete 45 credit hours, they will be advised in the ARC, after first meeting with the BSW Program Director to open a file in the social work department.

### Field Instruction

- Social Work Field Experience 4453 must be taken during the student’s senior year after completion of all required major courses and General Education Core courses. Only summer graduates are permitted to take field experience during the summer term.

An overall grade point average of 2.25 and a 2.50 grade point average in required social work courses are prerequisites to field experience. Also, only students whose written application to major in social work has been approved are eligible for the field experience.

Students are assigned full time to an agency, where they provide services to consumers under the supervision of a social work field instructor. A list of field instruction agencies is available in the Department.
School Social Work Licensure – Licensure by the Tennessee State Department of Education is available to social work majors who successfully complete the requirements for a B.S.W. degree plus the following four courses:

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

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

Department of Sociology and Anthropology (SOAA)
Box 70644 Phone: (423) 439-4370
e-mail: Harville@etsu.edu

Sociology is the study of people interacting with others individually, in groups, and in social systems. Anthropology is the holistic study of the human experience over time and across cultures. An understanding of people, culture, and society will prepare the graduate for useful employment in many occupations and professions, as well as further study at the graduate level. A major or minor can be earned in sociology and a minor in anthropology is available. For other students, courses in sociology and anthropology are excellent electives in any degree program. In addition to specific department requirements listed below, students majoring in sociology must complete requirements for the general education core as well as requirements specific to the College of Arts and Sciences degrees of B.A., B.S., or B.S./S.S. (social and behavioral sciences concentration).

Major – A student majoring in sociology must complete 30 credit hours of approved courses. In addition to maintaining an overall grade point average of at least 2.0 in the major, a student must earn a grade of “C” or above in each required course in the major.

TBR General Education ............................................ 41-42 Credit Hours

- ENGL 1010 Critical Reading and Expository Writing .......................... 3
- ENGL 1020 Critical Thinking and Argumentation ................................ 3
- Mathematics* ........................................................................ 3-4
- Communication: Oral Communication* ..................................... 3
- Natural Science* .................................................................... 3
- HIST 2010 The United States to 1877 ...................................... 3
- HIST 2020 The United States Since 1877 .................................. 3
- Literature ................................................................................. 3
- Fine Arts* ............................................................................... 3
- Social/Behavioral Sciences* ...................................................... 6
- Humanities Elective* ............................................................... 3

*See the General Education Core Requirements

Intensive Courses - Students who enter ETSU as freshmen or with less than 50 transfer hours must take: two oral communication-intensive courses, of which one must be in the major; one using information technology intensive course in the major; four writing-intensive courses, at least two of which must be in the major and at least two must be at the 3000-4000 level. Students must meet proficiency-intensive requirements through courses taken at ETSU.

Sociology Major Requirements ........................................... 30 Credit Hours

- SOAA 1020 Introduction to Sociology ........................................ 3
- SOAA 2020 Social Problems ................................................... 3
- SOAA 3210 Sociological Research ........................................... 3
- SOAA 3350 Social Statistics .................................................... 3
- SOAA 4057 Community Sociology ........................................... 3
- SOAA 4807 Modern Social Theory .......................................... 3
- SOAA Electives** ................................................................. 12

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

B.A. Requirements .................................................. 3 - 9 Credit Hours

Proficiency in a single language equivalent to two years at the college level. (Credit hours vary.)

1 course of Non-United States History .......................... 3
MATH 1530, 1840, or 1910 ........................................... 3

B.S. Requirements ................................................ 8 Credit Hours

- MATH 1580 or MATH 1910 ........................................... 3
- Science (in addition to General Education Core requirements) .... 8

B.S./S.S. Requirements .............................................. 3 Credit Hours

- MATH 1530 ................................................................. 3
- Social Statistics ............................................................. 3
- Reasoning and Argumentation ........................................... 3
- Research Design ............................................................ 3
- Computing Skills ......................................................... 3

* Satisfies TBR General Education Core Requirement.
** Satisfies with major courses

Minor Requirements .............................................. 18-26 Credit Hours

Sociology Minor Course Requirements .......... 18 Credit Hours

- SOAA 1020 Introduction to Sociology ......................... 3
- SOAA 2020 Social Problems ........................................ 3
- SOAA 3210 Sociological Research ............................... 3
- SOAA Electives ** ......................................................... 9

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

ANTHROPOLOGY MINOR

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

A minor in anthropology requires the completion of 18 credit hours. Students must earn at least a grade of “C” in each required course in the minor and achieve an overall grade point average of 2.0 in courses counted for the minor.

Anthropology Minor Course Requirements .... 18 Credit Hours

- SOAA 1240 Introduction to Cultural Anthropology .......... 3
- SOAA 1260 Introduction to Archaeology .................... 3
- SOAA 1280 Introduction to Physical Anthropology ...... 3
- SOAA Electives * .......................................................... 12

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

- SOAA 2040 Folk Culture in the Modern World ................ 3
- SOAA 2150 American Folk Music ................................ 3
- SOAA 3070 Medical Anthropology ............................... 3
- SOAA 3080 Nutritional Anthropology .......................... 3
- SOAA 3250 Environmental Anthropology ....................... 3
- SOAA 3260 Visual Anthropology ..................................... 3
- SOAA 3400 Human Osteology & Paleontology ............... 3
- SOAA 3500 Appalachian Folk Medicine ........................ 3
- SOAA 3700 Peoples and Cultures of Latin America ........ 3
- SOAA 3800 Religion, Society, and Culture ..................... 3
- SOAA 4007 Archaeology of the Southeastern U.S. ............ 3
- SOAA 4017 Historic Native American Cultures of the South Eastern U.S. ......................................................... 3
- SOAA 4037 Old World Archaeology ............................... 3
- SOAA 4400 Archaeological Field School ....................... 3
- SOAA 4567 Scottish Ethnology ........................................ 3
- SOAA 4627 Ethnographic Fieldwork Techniques .......... 3
- SOAA 4670 Native American Culture in Contemporary Society ..................................................................... 3
- SOAA 4907 Foodways of Appalachia .............................. 3
- SOAA 4957 Special Topics in Sociology & Anthropology .... 3
Note: Students majoring in sociology who elect to minor in anthropology cannot apply credit hours acquired for the anthropology minor for the sociology major and vice versa.

**Transfer Students** - Transfer students must meet the specific requirements for the sociology major and minor, or the anthropology minor. There is no predetermined maximum number of credit hours that a transfer student may apply to the sociology or anthropology curriculums. The final decision will be made by the department chair.

**Teacher Education** – Students interested in pursuing a teacher education program for certification as a sociology teacher in grades 7-12 are asked to speak both with an advisor in the Department of Sociology and Anthropology and the professional advisor in the Office of Student Services, 321 Warf-Pickel, College of Education.

**Pre-Teacher Education** – Declaration of Intent – All ETSU students desiring to complete a teacher education or other public school licensure program (for initial licensure, add-on endorsement, or advanced study in education) must file a Declaration of Intent in the Office of Student Services, 321 Warf-Pickel Hall. The Declaration of Intent should be filed before 30 credit hours of coursework have been completed or, in the case of transfer and post-baccalaureate students, in the first semester at ETSU. Delay or failure to file the Declaration of Intent may result in incomplete advisement. Students who have not filed the Declaration of Intent will not be considered for admission to teacher education and may be ineligible to enroll in many professional education courses.

**Professional Education Requirements** – There is a total of 33 credit hours required for Professional Education. Please refer to the Education Minor section in this catalog for a list of the required courses that must be taken with the professional semester.

**Graduate Study** – The Department of Sociology and Anthropology offers graduate programs leading to a master of arts degree. Further information on graduate programs is contained in the Graduate Catalog.

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

### Freshman Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>[SOAA 1000 ] Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>[ENGL 1110 ] Critical Reading and Expository Writing</td>
<td>3</td>
</tr>
<tr>
<td>[HIST 2010 ] The United States to 1877</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science</td>
<td>4</td>
</tr>
<tr>
<td>Communication: Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>Semester Total</td>
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<table>
<thead>
<tr>
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<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>[SOAA 2000 ] Social Problems</td>
<td>3</td>
</tr>
<tr>
<td>[ENGL 1120 ] Critical Thinking and Argumentation</td>
<td>3</td>
</tr>
<tr>
<td>[HIST 2020 ] The United States Since 1877</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science</td>
<td>4</td>
</tr>
<tr>
<td>[MATH 1530 ] Probability and Statistics</td>
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<td>Semester Total</td>
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### Sophomore Year

<table>
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<tbody>
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<tr>
<td>Literature</td>
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<tr>
<td>Social/Behavioral Sciences</td>
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<tr>
<td>Fine Arts</td>
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<td>Minor Requirement</td>
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<td>Humanities</td>
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<td>Humanities/Fine Arts Elective</td>
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<td>Minor</td>
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### Junior Year

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<tr>
<td>[SOAA 3210 ] Sociological Research</td>
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<td>Sociology Elective</td>
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<td>Minor Requirement or Elective</td>
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<tr>
<td>[PHIL 2030 ] or [SPCH 2320 ]</td>
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### Senior Year

<table>
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<th>Credit Hours</th>
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<tr>
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<tr>
<td>[SOAA 4808 ] Modern Social Theory</td>
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</tr>
<tr>
<td>[SOAA 3444 ] Data Analysis</td>
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</tr>
<tr>
<td>Minor Requirement or Elective</td>
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<tr>
<td>Elective</td>
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<tr>
<td>Semester Total</td>
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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>[SOAA 4857 ] Community Sociology</td>
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<tr>
<td>Sociology or Minor Elective</td>
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<td>Electives</td>
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<td>Semester Total</td>
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<tr>
<td>Total</td>
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</tr>
</tbody>
</table>

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**Women’s Studies Minor**

**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 student 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:

**Women’s Studies Minor Requirements .......... 18 Credit Hours**

| WMST 2010 Introduction to Women’s Studies | 3 |
| Senior Seminar | 3 |
| Approved Electives | 12 |

**Approved Electives**

- **CJCR 4870** Race, Gender, and Crime
- **CJCR 4957** Special Topics: Violence Toward Women
- **ENGL 3500** Women Authors
- **ENGL 4087** Themes in Women’s Literature
- **ENGL 4290** Film Genres: Women in Film
- **FCNU 4500** Women’s Health Issues
- **HIST 4237** Women in the Ancient World
- **HIST 4247** History of Women in United States
- **HIST 4237** American Women Since World War II
- **PHIL 3110** Philosophy of Feminism
- **SOAA 3030** Gender and Society
- **SOWK 3000** Human Behavior in the Social Envir
- **SPCH 4957** Special Topics: Gender and Communication

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2006-2007 Undergraduate Catalog 93
The College of Business and Technology is comprised of seven departments. The college has two primary divisions: Business and Technology. The Business division has three departments: Accountancy, Economics, Finance and Urban Studies, and Management and Marketing. The Technology Division has four departments: Computer and Information Sciences, Family and Consumer Sciences, Military Science, and Technology, Geography, and Geomatics.

**College of Business and Technology Honors Program**

The College of Business and Technology has a Honors Program to attract, retain, and recognize outstanding students. The Program provides an enriched academic experience for selected students. It features college-wide and department specific honors courses.

Applicants to the program should have a high school grade point average of 3.5 or greater and an ACT score of 27 or more (or an equivalent SAT score). Scholarships are available. Interested students should contact the College of Business and Technology Honors Program Director, East Tennessee State University, P.O. Box 70699, Johnson City, Tennessee 37614.

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Accredited by: AACSB - The Association to Advance Collegiate Schools of Business

The mission of the Business Division 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 Bachelor of Business Administration (B.B.A.) curriculum includes general education requirements in the liberal arts and sciences, core requirements, and major program requirements.

Five undergraduate majors and several concentrations leading to the B.B.A. degree are available. The majors are accountancy, economics, finance, management, and marketing. Concentrations within some of the majors, include business economics, general business and economics, corporate finance and investments, banking, real estate, human resources management, logistics/supply chain management, general management, legal studies, integrated marketing communications, and marketing management.

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

Business students may also pursue graduate study in accountancy, business, economics, and law. In addition, the college provides the opportunity and environment for faculty research and service to the business community.

**Business Internship Program**

An Internship Program is offered for business students wishing practical experience in their major. Students must be Business majors with an overall GPA of 2.7 and have a GPA of 3.0 in Business courses. Students should have completed at least two courses in their major before applying for an internship.

Successful completion of the 130 hours of on-site learning earns students three elective credits in their major. Approval from the respective department chair must be given to allow the course to substitute for another course in the major. Only one internship course per student is permitted.

**Business Course Level Requirements**

- All 1000- and 2000-level (lower division) courses should be completed by the end of the sophomore year. All students enrolling in 3000- and 4000-level (upper division) Business courses must have junior- or senior-level standing and have completed prerequisite courses.

**Major**

- Students in Business meet the requirements for their major by completing the courses listed under their major program.

Entering business students are classified as pre-business (PBUS) until the Special Requirements are met (see Special Admission Requirements for College of Business and Technology B.B.A. Majors on the next page). Prior to the completion of 60 semester credit hours, each student planning to pursue a B.B.A. will be classified as a pre-business student. At the beginning of the junior year, each qualified business student must select a specific major within the college. Qualified students who do not apply for a specific major will be assigned a major in economics with a concentration in general business and economics. See the special admission requirements for Business undergraduate majors.

At least 50 percent of the B.B.A. core requirements and major program requirements for the Bachelor of Business Administration degree must be earned at East Tennessee State University.

All Business B.B.A. majors are required to complete the curriculum outlined below.

All business graduates must earn a minimum 2.0 overall GPA in all business core requirements and in all major program requirements, including work at ETSU and transfer work.

**Special Admission Requirements for (College of Business and Technology) B.B.A. Majors**

1. Each student planning to pursue the B.B.A. degree in business must apply for admission to a business major upon completion of 60 credit hours.

2. Upon completion of 60 credit hours, each student who applies for admission to a major in business will be admitted if the following requirements are met:
   a. The student must have attained a minimum overall grade point average of 2.0, except accountancy majors who must attain a minimum of 2.5.
   b. The following English composition and mathematics courses of the General Education Requirements must have been successfully completed:
      - ENGL 1010 Critical Reading and Expository Writing
      - ENGL 1020 Critical Thinking and Argumentation
      - MATH 1530 Probability & Statistics - Non-Calculus
   c. The student must have completed and earned a grade of “C” or
better in each of the following Business courses:

- **ACCT 2010** Principles of Accounting I
- **ACCT 2020** Principles of Accounting II
- **ECON 2210** Principles of Economics I
- **ECON 2220** Principles of Economics II
- **ECON 2070** Quantitative Methods For Business I
- **ECON 2080** Quantitative Methods For Business II

3. These admission standards apply to all entering ETSU students, to ETSU students seeking to change from a nonbusiness to a business major, to students seeking to transfer from other institutions, and to students readmitted to ETSU.

Additional information regarding admissions and retention policies, as well as career opportunities in business, may be obtained in the college’s Office of Undergraduate Studies in Sam Wilson Hall, phone (423) 439-5275.

**Minor** – A minor is not required for students who have B.B.A. majors.

**Graduate Studies** – The Business Division offers the Master of Business Administration (M.B.A.) degree, the Master of Accountancy (M.Acc.) degree, the Master of Public Administration (M.P.A.) degree, and the Master of City Management degree (M.C.M.). Further information on graduate programs is contained in the School of Graduate Studies Catalog or may be obtained from the college’s Office of Graduate Studies in room 214, Sam Wilson Hall. Phone: (423) 439-5314.

**Center for Banking** – The Center for Banking conducts research and education programs for bank managers and for students with an interest in banking careers. Included are an internship program providing students with practical, on-the-job experience and a speakers program which brings banking and government officials to the classroom.

**Basic Curriculum for All (College of Business and Technology) B.B.A. Majors**

**ETSU Academic Proficiency Requirements:**

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

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

**Using information Technology:** Students must pass the information technology proficiency exam or successfully complete CSCI 1100, Using Information Technology, during their first calendar year or prior to taking the technology proficiency exam or successfully complete CSCI 1100. Further information on the study of technology intensities is the following business courses assigned to the catalog.

**Transfer students** may be subject to reduced number of intensives.

*See ETSU Academic Proficiency Requirements for details.*

**TBR General Education Requirements .................. 41 Credit Hours**

- ENGL 1010 Critical Reading and Expository Writing ...............3
- ENGL 1020 Critical Thinking and Argumentation ..................3
- Communication: Oral Communication* ..................................3
- MATH 1530 Probability & Statistics - Non-Calculus ..............3
- Natural Sciences* ............................................................8
- HIST 2010 The United States to 1877 .................................3
- HIST 2020 The United States Since 1877 ............................3
- Humanities/Fine Arts/Literature* ......................................9
- Social/Behavioral Sciences* ..............................................9

**B.B.A. Core Requirements .............................. 36-39 Credit Hours**

- ACCT 2010/20 Principles of Accounting I and II ..................6
- ECON 2070/80 Quantitative Methods For Business I & II .......6
- ECON 2220 Principles of Economics II ...............................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 Formation ....................3

**Major ........................................................................49 Credit Hours**

**Electives ...................................................................... 24-27 Credit Hours**

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

* See General Education Core Requirements for options.

**Not required for Accounting Majors.**

**Suggested Course Sequence for All B.B.A. Majors (in the College of Business and Technology)**

**Freshman Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGL 1010 Critical Reading and Expository Writing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1530 Probability &amp; Statistics - Non-Calculus</td>
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<tr>
<td>MGMT 3100 Production and Operations Management</td>
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<tr>
<td>Social/Behavioral Sciences</td>
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<tr>
<td>Humanities/Fine Arts/Literature</td>
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**Second Semester**

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<td>ECON 2070 Quantitative Methods I</td>
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<td>ECON 2220 Principles of Economics I</td>
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<td>MGMT 3220 Principles of Economics II</td>
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**Junior Year**

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<td>MGMT 3100 Production and Operations Management</td>
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**Senior Year**

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<td>MGMT 3100 Production and Operations Management</td>
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**Business Intensive Courses**

At the present time the following business courses have been designated as intensive courses to meet university general education requirements. Writing-Intensive (WI) courses are Accountancy 3000 and 4610; Economics 4447 and 4610; Finance 4447, 4520, 4560, 4597, 4617 and 4620; Management 3300, 3320, 4657, and 4910; Marketing 3750 and 4910. Oral Communication-Intensive (OCI) courses are Accountancy 3000; Economics 3700; Finance 4597, 4617 and 4620; Management 3200, 4010, 4020, and 4030; 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
Accredited by: AACSB - The Association to Advance Collegiate Schools of Business

The Department of Accountancy offers a major in accountancy within the bachelor of business administration degree. The program is aimed at students seeking a general degree in accounting. Students seeking professional positions in accountancy should enroll in the Master of Accountancy program after completing their accountancy B.B.A. degree. The M.Acc. is a 33-semester-hour graduate program that enables students to achieve mastery of accounting and auditing theory and procedures and current professional topics. It also meets the educational requirements for certification as a certified public accountant, certified management accountant, or certified internal auditor.

Admission – Requirements for admission to the accountancy major: (1) have a minimum overall GPA of 2.50; (2) earn a minimum of a "C" in each accounting course; and (3) meet Business admission requirements.

Accountancy Major ............................................................................ 27 Credit Hours
ACCT 3000 Professionalism in Accountancy .................................. 3
ACCT 3010 Financial Accounting I ............................................. 3
ACCT 3020 Financial Accounting II ........................................... 3
ACCT 3110 Management Accounting ...................... 3
ACCT 3410 Federal Income Taxes .............................................. 3
ACCT 4010 Advanced Financial Accounting .......... 3
ACCT 4310 Accounting Information Systems .......... 3
ACCT 4610 Auditing Theory and Practice ................ 3
ACCT 4717 Not-For-Profit Accounting .................................. 3

Accountancy Minor .............................................................................. 18 Credit Hours
ACCT 2010 Principles of Accounting I ...................... 3
ACCT 2020 Principles of Accounting II .................... 3
ACCT 3010 Financial Accounting I .......................... 3
ACCT 3110 Management Accounting .................. 3
Accountancy Electives ............................................................... 6
(Select from courses in accountancy major)

Graduation Requirements - Accountancy Majors/Minors must have a grade of "C" or better in each accounting course.

Economics Major
Bachelor of Business Administration Degree

Concentration I – Business Economics .................... 27 Credit Hours
Basic Requirements:
ECON 3310 Monetary Economics ................................................. 3
ECON 4337 Government Finance & Public Choice .............. 3
ECON 4610 Managerial Economics .............................................. 3

Specific Requirements:
ECON 3030 Macroeconomics: Theory of Economic Behavior 3
ECON 3040 Macroeconomics: Analysis & Policy .................. 3

Select three courses from the following .................. 9
ECON 3700 History of Economic Concepts .................. 3
ECON 4327 Labor Economics .................................................. 3
ECON 4447 Urban and Regional Economics ................ 3
ECON 4457 Industrial Organization and Regulation ........... 3
ECON 4527 International Economics ......................... 3

College of Business elective:* ........................................... 3

* This elective must be approved by the chair of the Department of Economics, Finance, and Urban Studies prior to enrollment.

Concentration II – General Business ....................... 27 Credit Hours
Basic Requirements:
ECON 3310 Monetary Economics ................................................. 3
ECON 4337 Government Finance and Public Choice .............. 3
ECON 4610 Managerial Economics .............................................. 3

Specific Requirements: Select (1) one course from each of the following (5) five groups of courses ........................................... 15

Group 1
ACCT 3010 Financial Accounting I ...................... 3
ACCT 3090 Administrative Accounting ............... 3
ACCT 3110 Management Accounting .................. 3
ACCT 3410 Federal Income Taxes .................................. 3

Group 2
FNCE 3120 Principles of Real Estate .................... 3
FNCE 3300 Principles of Investment ..................... 3
FNCE 4447 Banking and Financial Intermediation .... 3

Group 3
MGMT 4010 Advanced Organizational Behavior ........ 3
MGMT 4020 Organizational Theory & Development .... 3
MGMT 4510 Human Resources Management .................. 3
MGMT 4617 Small Business Management .................. 3

Group 4
MKTG 3202 Consumer Behavior ......................... 3
MKTG 3210 Fundamentals of Distribution ............. 3
MKTG 3250 Marketing Communications .................. 3
MKTG 3350 Retailing .......................................................... 3

Group 5
MGMT 3300 Written Organizational Communication .... 3
"College of Business and Technology Elective"* ............ 3

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

Guided Business Electives** ........................................... 6 Credit Hours
Non-Business Elective* ........................................... 3 Credit Hours

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

* See university General Education Core Requirements for options.
** These electives must be chosen from the College of Business and Technology course list.

The Department of Economics, Finance, Geography, and Urban Studies is unique in the College of Business and Technology 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. This is a non-business degree.
Economics Major
The Bachelor of Arts Degree in Economics

The Bachelor of Arts degree in Economics (B.A.) is a non-business degree. The most significant differences between the Bachelor of Business Administration degree (B.B.A.) and the Bachelor of Arts degree in Economics (B.A.) are:

Non-Business B.A. Students:
Are required to satisfy “Bachelor Degree Requirements” listed below.
Do not complete the (College of Business and Technology) “Basic curriculum for all college of business B.B.A. majors”.
Are required to demonstrate proficiency in a foreign language as described in this catalog.
Are required to limit their Business Administration and Management courses to no more than 25 percent of the total number of hours completed for the B.A. degree. The 25 percent limit includes courses in Accounting, Finance, Management, and Marketing.

Bachelor of Arts Degree (B.A.)
Economics Major (ECON)

ETSU Academic Proficiency Requirements:
Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.
Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.
Using Information Technology: Students must complete at least one using information technology-intensive course in the major field of study.

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

TBR General Education Requirements .......... 38 Credit Hours
ENGL 1010 Critical Reading and Expository Writing .......... 3
ENGL 1020 Critical Thinking and Argumentation .......... 3
Communication: Oral Communication* .......... 3
MATH 1530 Probability and Statistics .......... 3
Natural Sciences* ......................................................... 8
HIST 2010 The United States to 1877 .......... 3
HIST 2020 The United States Since 1877 .......... 3
Humanities/Fine Arts/Literature* .......... 3
Social/Behavioral Sciences* (non-economics courses) .......... 3
  * See TBR General Education Core Requirements for options.

Bachelor of Arts Degree Requirements* .......... 9 Credit Hours
Foreign Language ......................................................... 6
Non-United States History .......... 3
  * Students studying for a B.A. must complete 3 hours credit in Non-United States History. The Department recommends either HIST 1110 or 1120 to fulfill both the B.A. Non-United States History requirement and three credit-hours of the Humanities/Fine Arts requirement. Otherwise, additional coursework is required to fulfill both requirements. The Mathematics requirement is fulfilled with the Mathematics TBR General Education Requirements.

Economics Core Requirements ................. 24 Credit Hours
ECON 2070 Quantitative Methods for Business I .......... 3
ECON 2080 Quantitative Methods for Business II .......... 3
ECON 2210 Principles of Economics I .......... 3
ECON 2220 Principles of Economics II .......... 3
ECON 3030 Microeconomics: Theories of Business Behavior
ECON 3040 Macroeconomics: Analysis & Policy .......... 3
ECON 3310 Monetary Economics .......... 3
ECON 3700 History of Economic Concepts .......... 3
Select 2 courses from: ........................................ 6 Credit Hours
ECON 4327 Labor Economics
ECON 4337 Gov. Finance and Public Choice
ECON 4447 Urban and Regional Economics

Suggested Course Sequence
Freshman Year
First Semester
ENGL 1010 Critical Reading and Expository Writing .......... 3
Natural Science .......... 4
Social/Behavioral Sciences .......... 3
MATH 1530 Probability and Statistics .......... 3
Humanities/Fine Arts/Literature .......... 3
Semester Total .......... 16
Second Semester
ENGL 1020 Critical Thinking and Argumentation .......... 3
Natural Science .......... 4
Humanities/Fine Arts/Literature .......... 3
Social/Behavioral Sciences .......... 3
Communication: Oral Communication .......... 3
Semester Total .......... 16

Sophomore Year
First Semester
Foreign Language .......... 3
HIST 2010 The United States to 1877 .......... 3
ECON 2070 Quantitative Methods I .......... 3
ECON 2210 Principles of Economics I .......... 3
Humanities/Fine Arts/Literature .......... 3
Semester Total .......... 15
Second Semester
Foreign Language .......... 3
HIST 2020 The United States Since 1877 .......... 3
ECON 2080 Quantitative Methods for Business II .......... 3
ECON 2220 Principles of Economics II .......... 3
Minor Requirement .......... 3
Semester Total .......... 15

Junior Year
First Semester
Foreign Language .......... 3
Minor Requirement .......... 3
Elective .......... 3
Total .......... 15
Second Semester
Humanities/Fine Arts .......... 3
Minor Requirement .......... 3
ECON 3030 Microeconomics: Theories of Business Behavior .......... 3
ECON 3310 Monetary Economics .......... 3
Elective .......... 3
Semester Total .......... 15

Senior Year
First Semester
Minor Requirement .......... 3
Select 2 courses from .......... 6
Elective .......... 6
Semester Total .......... 15
Second Semester
Minor Requirement .......... 3
Elective .......... 3
Total .......... 13

Total 120 Credit Hours

Economics Minor
Economics Minor Requirements .......... 18 Credit Hours
ECON 2210 Principles of Economics II .......... 3
ECON 2220 Principles of Economics II .......... 3
ECON 3310 Monetary Economics .......... 3
Economics electives* .......... 9
Electives to be chosen from the following courses:
ECON 3030 Microeconomics
ECON 3040 Macroeconomics
ECON 3700 History of Economic Concepts
ECON 4317 Health Care Economics

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Basic Requirements:
- **ECON 3310** Monetary Economics ........................................ 3
- **FNCE 3300** Principles of Investment ..................................... 3
- **FNCE 3500** Capital Budgeting ........................................... 3

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

Select six hours from: .................................................................. 6
- **ECON 4610** Managerial Economics ..................................... 3
- **FNCE 4330** Real Estate Finance ......................................... 3
- **FNCE 4447** Banking and Financial Intermediation ................ 3
- **FNCE 4617** Applied Portfolio Management ........................... 3

or
other upper division College of Business and Technology electives.*

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

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**Finance Major**

**Concentration I – Corporate Finance and Investments** .............. 27 Credit Hours

**Basic Requirements:**
- **ECON 3310** Monetary Economics ........................................ 3
- **FNCE 3300** Principles of Investment ..................................... 3
- **FNCE 3500** Capital Budgeting ........................................... 3

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

Select six hours from: .................................................................. 6
- **ECON 4610** Managerial Economics ..................................... 3
- **FNCE 4330** Real Estate Finance ......................................... 3
- **FNCE 4447** Banking and Financial Intermediation ................ 3
- **FNCE 4617** Applied Portfolio Management ........................... 3

or
other upper division College of Business and Technology electives.*

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

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**Concentration II – Banking** ............................................. 27 Credit Hours

**Basic Requirements:**
- **ECON 3310** Monetary Economics ........................................ 3
- **FNCE 3300** Principles of Investment ..................................... 3
- **FNCE 3500** Capital Budgeting ........................................... 3

**Specific Requirements:**
- **FNCE 4447** Banking and Financial Intermediation ................ 3
- **FNCE 4500** Credit Management .......................................... 3
- **FNCE 4520** Bank Policy .................................................... 3
- **FNCE 4620** Financial Analysis and Policy ............................. 3

Select six hours from: .................................................................. 6
- **ACCT 3010** Financial Accounting I .................................... 3
- **ACCT 3020** Financial Accounting II .................................... 3
- **FNCE 4330** Real Estate Finance ......................................... 3
- **FNCE 4560** Portfolio Theory and Valuation ........................... 3
- **FNCE 4597** International Financial Management ................... 3

or
Other upper division College of Business and Technology electives.*

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

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**Finance Minor Requirements** ........................................... 18 Credit Hours

**Basic Requirements:**
- **ACCT 2010** Principles of Accounting I ................................. 3
- **ECON 2220** Principles of Economics II ................................. 3
- **FNCE 3220** Business Finance ............................................. 3
- **Finance electives** .................................................................. 9

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

**Urban Studies Minor Requirements** ................................. 21 Credit Hours

- **URBS 3100** Introduction to Urban and Regional Planning ........ 3
- **URBS 2610** Introduction to Public Administration ................ 3
- **ECON 4447** Urban and Regional Economics ......................... 3

**Guided Electives* (Select 12 hours) ........................................ 12

- **FNCE 3120** Principles of Real Estate ................................... 3
- **FNCE 4320** Real Estate Appraisals ....................................... 3
- **PSCI 4160** The Idea of the City ......................................... 3
- **PSCI 4450** Appalachian Politics ........................................... 3
- **SOAA 4157** Sociology of the City ........................................ 3
- **SOAA 4557** Population ..................................................... 3
- **URBS 4087** Recreation and Tourism Planning ...................... 3
- **URBS 4107** Urban Geography and Planning ......................... 3
- **URBS 4347** Economic Development Planning ...................... 3
- **URBS 4637** Local and Regional Planning ............................... 3

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

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**Geography**

Offers degrees in Geography and Surveying and Mapping Science. There are four different program areas within Geography. 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 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 (air photo 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.

The bachelor's degree program in Surveying and Mapping Science is accredited by the Applied Science Accreditation Commission of the Accrediting Board for Engineering and Technology (ASAC of ABET). It is one of the top programs in this discipline offered nationwide.
Minor

A minor in geography consists of a minimum of 20 credit hours of study (nine of which must be upper division courses). Lower division course requirements include: GEOG 1110 or 1120 and GEOG 1012 or 1013. Consult with departmental advisor.

Geography Minor ................................................. 20 Credit Hours
GEOG 1110 Earth Science: Weather and Climate 
or 
GEOG 1120 Earth Science: Landforms and Processes ........... 4
GEOG 1012 Introduction to Cultural Geography 
or 
GEOG 1013 Introduction to World Regional Geography .......... 3
Upper division Geography courses ........................................ 4
GEOG elective ............................................................................ 4

Transfer Students

The department will approve a major program in geography only after 10 hours have been completed at the university with at least a ‘C’ average. Courses in geography taken at another institution shall count toward a major or minor only if they directly parallel courses offered by this department.

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

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

ETSU Academic Proficiency Requirements:
Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.
Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.
Using Information Technology: Students must complete at least one using information technology-intensive course in the major field of study.

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

TBR General Education Requirements .......... 41-42 Credit Hours
Communication: Oral Communication* ........................................... 3
ENGL 1010 Critical Reading and Expository Writing ................. 3
ENGL 1020 Critical Thinking and Argumentation ...................... 3
Mathematics* .................................................................................. 3-4
GEOG 1110 Earth Science: Weather and Climate ...................... 4
GEOG 1120 Earth Science: Landforms and Processes .............. 4
HIST 2010 The United States to 1877 ........................................ 3
HIST 2020 The United States Since 1877 ................................. 3
Humanities/Fine Arts* ................................................................. 9
GEOG 1012 Introduction to Cultural Geography ................. 3
Social/Behavioral Sciences* ......................................................... 3

Minor Requirements ............................................. 18-26 Credit Hours
Electives ......................................................................................... 9
Total Hours Required For Degree .................. 23-31 Credit Hours

Suggested Course Sequence

Freshman Year

First Semester Credit Hours
ENTC 1510 Student in University ........................................... 3
GEOG 1110 Earth Science: Weather and Climate ................. 4
ENGL 1010 Critical Reading and Expository Writing ............ 3
HIST 2010 The United States to 1877 ................................. 3
Communication: Oral Communication* ........................................... 3
Semester Total ..................................................... 16

Second Semester Credit Hours
HIST 2020 The United States Since 1877 ................................. 3
GEOG 1120 Earth Science: Landforms and Processes .............. 4
ENGL 1020 Critical Thinking and Argumentation .............. 3
MATH 1530 Probability & Statistics-Non-Calculus .......... 3
GEOG 1012 Introduction to Cultural Geography ................. 3
Semester Total ..................................................... 16

Sophomore Year

First Semester Credit Hours
Humanities/Fine Arts ......................................................... 6
Minor ......................................................................................... 3
Social/Behavioral Sciences .................................................... 3
Electives ......................................................................................... 3
Semester Total ..................................................... 15

Second Semester Credit Hours
GEOG 1013 Introduction to World Regional Geography .... 3
GEOG 2110 Modern Geographic Concepts ...................... 3
GEOG 3210 Cartography ......................................................... 3
Minor ......................................................................................... 3
Electives ......................................................................................... 3
Semester Total ..................................................... 15

Junior Year

First Semester Credit Hours
GEOG 4217 Geographic Information Systems ........... 3
Minor ......................................................................................... 3
Humanities/Fine Arts ......................................................... 3
Electives ......................................................................................... 3
GEOG XXXX ................................................................. 3
Semester Total ..................................................... 15

Second Semester Credit Hours
GEOG 4007 Geography of the United States ............... 3
Minor ......................................................................................... 3
Electives ......................................................................................... 3
GEOG XXXX ................................................................. 4
Semester Total ..................................................... 13

Senior Year

First Semester Credit Hours
Minor ......................................................................................... 6
GEOG XXXX ................................................................. 3
Electives ......................................................................................... 6
Semester Total ..................................................... 15

Second Semester Credit Hours
Minor ......................................................................................... 6
Electives ......................................................................................... 9
Total ................................................................. 15

TOTAL ................................................................. 120

*See TBR General Education Core Requirements.

Geography Major Requirements .......................... 30 Credit Hours

Required Courses .................................................. 17 Credit Hours
ENTC 1510 Student in University ........................................... 2
GEOG 1013 Intro. to World Regional Geography ............... 3
GEOG 2110 Modern Geographic Concepts .................. 3
GEOG 3210 Cartography ......................................................... 3
GEOG 4007 Geography of the United States ............... 3
GEOG 4217 Geographic Information Systems ........... 3
Select at least (13) thirteen hours from the following:
GEOG 3010 Econ. Geography-Manuf. & ...................... 3
Svc. Industries

GEOG 3020 Economic Geo. Agri. & Extractive Industries .... 3
GEOG 3040 Conservation of Natural Resources ............... 3
GEOG 3060 Geomorphology ......................................................... 4
GEOG 3090 Meteorology & Climatology ......................... 4
GEOG 3120 Intro. to Geography of Southern App .............. 3
GEOG 3300 Political Geography ......................................................... 3
GEOG 4017 Advanced Cartography ........................................... 3
GEOG 4077 Seminar in Geography of Southern App .... 3
GEOG 4107 Urban Geography and Planning .................. 3
GEOG 4117 Resource Management ......................................... 3
GEOG 4237 Advanced Remote Sensing ......................... 3
GEOG 4257 Geography of Soils ......................................................... 3
GEOG 4267 Hydrology ......................................................... 4
GEOG 4307 Regional Geography ........................................... 3
GEOG 4317 Advanced Geographic Information Systems .... 3
GEOG 4237 Advanced Remote Sensing ......................... 3
GEOG 4807 Advanced Field Methods ................................. 3
GEOG 4907 Independent Study in Geography ............. 1-3

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

**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 Ward-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.

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**Department of Management and Marketing**

MGMT (MKTG)

Box 70625

Phone: (423) 439-4422

225 Sam Wilson Hall

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

The Department of Management and Marketing includes a management program and a marketing program. The management program offers study leading to the bachelor of business administration degree with a major in management. Management majors must select one of four concentrations. The marketing program offers study leading to the bachelor of business administration degree with a major in marketing. Marketing majors must select one of two concentrations. Programs are designed to equip students with conceptual foundations and practical skills necessary for entry-level positions in both private and public-sector organizations.

**Management Major**

Bachelor of Business Administration

**Concentration I – Human Resources Management**

**Basic Requirements:**
- MGMT 4020 Organizational Theory and Development 3
- MGMT 4030 Current Management Systems 3

**Specific Requirements:**
- MGMT 4510 Human Resources Management 3
- MGMT 4530 Compensation Management 3
- MGMT 4560 Planning and Staffing 3
- MGMT 4600 Personnel Law 3

**Select two courses from:** 6
- MGMT 4010 Advanced Organizational Behavior
- MGMT 4520 HRM in Team-Based Organizations
- MGMT 4540 Personnel Research and Measurement
- MGMT 4570 Training and Development
- MGMT 4587 HRM Certification
- MGMT 4347 Collective Bargaining
- ECON 4327 Labor Economics

Electives must be approved by the Chair of the Department of Management and Marketing prior to enrollment.

**Concentration II – Logistics/Supply Chain Management**

**Basic Requirements:**
- MGMT 4020 Organizational Theory & Development 3
- MGMT 4030 Current Management Systems 3

**Specific Requirements:**
- MKTG 3310 Business Logistics 3
- MGMT 4317 Materials Management 3
- MGMT 3650 Supply Chain Management 3

**Select three courses from:** 9
- MGMT 4357 CIM Applications
- MGMT 3660 Project Management
- MGMT 4217 Service Operations Management
- MGMT 4510 Human Resources Management
- MGMT 4327 Decision Modeling and Simulation
- upper division College of Business and Technology electives

(These electives may be tailored into focus areas to fit the specific educational needs of the student.)

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**Concentration II – Logistics/Supply Chain Management**

**Basic Requirements:**
- MGMT 4020 Organizational Theory & Development 3
- MGMT 4030 Current Management Systems 3

**Specific Requirements:**
- MGMT 4440 Governmental Regulations 3
- ENGL 4100 Writing in the Professions 3
- ENGL 3130 Advanced Composition 3

**Select any four courses from:** 12
- MGMT 4020 Organizational Theory & Development 3
- MGMT 4030 Current Management Systems 3

**Concentration IV – General Management**

**Basic Requirements:**
- MGMT 4020 Organizational Theory & Development 3
- MGMT 4030 Current Management Systems 3

**Specific Requirements:**
- MGMT 4510 Human Resources Management 3

**Select two courses from:** 6
- MGMT 4317 Materials Management
- MGMT 4327 Decision Modeling and Simulation
- MGMT 4330 Data Management
- ACCT 4310 Accounting Information Systems
- MGMT 3650 Supply Chain Management
- MGMT 4217 Service Operations Management
- MGMT 4357 CIM Applications

**Select one course from:** 3
- MGMT 4530 Compensation Management
- MGMT 4540 Personnel Research and Measurement
- MGMT 4570 Training and Development
- MGMT 4600 Personnel Law
- MGMT 4560 Planning and Staffing
- MGMT 4347 Collective Bargaining
- MGMT 4520 Team Management

**Select two courses from:** 6
- Upper Division Business Courses
- Upper division College of Business and Technology electives

* Must be approved by the Chair of the Department of Management and Marketing prior to enrollment.

**Management Minor**

**Management Minor Requirements**

**Basic Requirements:**
- ACCT 2010 Principles of Accounting I 3
- ECON 2210 Principles of Economics I 3
- MGMT 3000 Organizational Behavior & Management 3
- MGMT 4010 Advanced Organizational Behavior 3
- MGMT 4020 Organizational Theory & Development 3

**Management electives:** 6

* These electives must be approved by the Chair of the Department of Management and Marketing prior to enrollment.
Interdisciplinary Minor in Leadership Studies

The Department of Management and Marketing serves as the academic host for the interdisciplinary minor in leadership studies. It is designed to provide students with the necessary knowledge, skills and experiences to fulfill future community-based and business leadership roles. It is designed to complement any major at ETSU. The minor consists of 21 credits and eight experiences for a portfolio. Once the student has officially declared the intent to participate in the minor, a portfolio advisor will be assigned from the Center for Community Engagement, Learning, and Leadership. It is recommended that a student begin work on the portfolio as soon as possible. Assignment of a community/campus mentor will not be made until the end of the junior year.

Two upper division courses are required of all students in the minor, MGMT 3000 and MGMT/ELPA 4460. These courses meet the required competency in leadership and management. Nine of the 21 credits are to be taken from the prescribed core competency areas below. Six additional credits must come from the list of focused competency electives to develop the students’ understanding of leadership through multicultural, sociological and experiential methods, no two courses from the same department. Details can be obtained from the Chairperson of Management and Marketing and the Dean of Students.

Core Competency ............................................. 21 Credit Hours

Ethics and Social Responsibility
Select one course from: ........................................... 3
- SRVL 1020 Introduction to Service-Learning
- SPCH 4366 Communications Ethics
- PHIL 4017 Ethical Theory
- MGMT 3320 Management and Social Responsibility
- ENGL 3150 Literature, Ethics and Values

Oral Communication
Select one course from: ........................................... 3
- MGMT 3200 Organizational Communication
- SPCH 2320 Argumentation and Debate
- SPCH 3380 Dynamics of Group Leadership
- SPCH 4346 Business and Professional Communication
- SPCH 4357 Communications in Organizations

Written Communications
Select one course from: ........................................... 3
- ENGL 4100 Writing in the Professions
- ENGL 3130 Advanced Composition
- ENTC 3030 Technical Communication
- JOUR 2120 Writing for Print Media

Focused Competency electives ................................... 6
- MGMT 3000 Organizational Behavior and Management ........ 3
- MGMT 4460 Leadership Studies

or
- ELPA 4460 Leadership Studies .................................... 3

Required Portfolio

Marketing Major
Bachelor of Business Administration

Concentration I –
Marketing Management ................................. 24 Credit Hours

Basic Requirements:
- MKTG 3202 Consumer Behavior .................................. 3
- MKTG 4617 Marketing Research ................................... 3
- MKTG 4910 Marketing Management .............................. 3

Specific Requirement:
- MKTG 3740 Sales Force Management ............................. 3

Select one course from: ......................................... 3
- MKTG 4217 Health Care Marketing
- MKTG 4710 International Marketing

Select one course from: ......................................... 3
- MKTG 3210 Fundamentals of Distribution
- MKTG 3310 Business Logistics
- Electives - Any (2) two Marketing courses or

Approved electives* ............................................. 6

*These electives must be approved by the Chair of the Department of Management and Marketing prior to enrollment.

Concentration II –
Integrated Marketing Communications ............. 24 Credit Hours

Basic Requirements:
- MKTG 3202 Consumer Behavior .................................. 3
- MKTG 4617 Marketing Research ................................... 3
- MKTG 4910 Marketing Management .............................. 3

Specific Requirements:
- MKTG 3250 Marketing Communications .......................... 3
- MKTG 3740 Sales Force Management ............................. 3
- MKTG 3750 Advertising Campaign Management ............. 3
- Electives - Any two Marketing courses or approved electives* ............................................. 6

*These electives must be approved by the Chair of the Department of Management and Marketing prior to enrollment.

Marketing Minor

Marketing Minor Requirements ............................... 21 Credit Hours

ACCT 2010 Principles of Accounting I .......................... 3
ECON 2210 Principles of Economics I ............................ 3
ECON 2220 Principles of Economics II ........................... 3
MKTG 3200 Principles of Marketing ............................. 3
Marketing Electives* ............................................. 9

*These electives must be approved by the Chair of the Department of Management and Marketing prior to enrollment.

Technology

The mission of the Technology Division 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.

Degrees and Programs

<table>
<thead>
<tr>
<th>Department</th>
<th>Program/Concentrations</th>
<th>Degree</th>
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<tbody>
<tr>
<td>Computer &amp; Information Sciences</td>
<td>Computer Science</td>
<td>B.S.</td>
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<td>Information Systems Science</td>
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<td>M.S.</td>
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<td></td>
<td>Applied Computer Science</td>
<td>M.S.</td>
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<td></td>
<td>Child/Family/Consumer Studies</td>
<td>B.S.</td>
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<td></td>
<td>Nutrition and Foods</td>
<td>M.S.</td>
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<td>Interior Design</td>
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<td>Merchandising</td>
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<td>Clinical Nutrition</td>
<td>M.S.</td>
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<td></td>
<td>Engineering Technology</td>
<td>B.S., M.S.</td>
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<td>Technology &amp; Geomatics</td>
<td>Biomedical Engineering Technology</td>
<td>M.S.</td>
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<td>Construction Technology</td>
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<td>Electronics Engineering Technology</td>
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<td>Industrial Technology</td>
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<td>Manufacturing Engineering Technology</td>
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<td>Digital Media</td>
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<td>Digital Animation</td>
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<td>Digital Interaction</td>
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<td>Digital Visualization</td>
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<td>Geography</td>
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<td>Surveying &amp; Mapping</td>
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<td>Military Science</td>
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<tr>
<td></td>
<td>ROTC Advanced Phase</td>
<td>Minor</td>
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Cooperative Education

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

Students enrolling in cooperative education in need to be aware of and follow regulations set forth by the College. To be eligible for enrollment, all students are required to meet the following criteria:
1. Must have completed a minimum of 32 semesters credit hours of coursework at an accredited college or university.
2. Must have completed the basic foundation courses in the major in which the student plans to Co-Op. This is to be determined by the students’ academic advisor and the Co-Op coordinator.
3. Must have a minimum 2.50 GPA in their major.
4. Must have a minimum of a 2.25 GPA in all of their coursework at ETSU and other institutions.
5. Students are limited as to the number of semester credit hours of other courses they can register for during the semester they Co-Op. The following formula applies:

<table>
<thead>
<tr>
<th>Sem. Hrs. of Co-Op.</th>
<th>Work Hrs. per Week</th>
<th>Additional Sem. Hours permitted to take</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10 - 19</td>
<td>12</td>
</tr>
<tr>
<td>2</td>
<td>20 - 29</td>
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</table>

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

Department of Computer and Information Sciences

Box 70711 Phone: (423) 439-5332
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 (3) areas of concentrations: Computer Science, Information Systems Science, and Information Technology. The Information Systems Science Concentration requires a minor in Management or Accountancy. A minor is not required in the other concentrations.

Computer Science (CS) Concentration

The Computer Science concentration is for students who wish to enter the field of software systems analysis and development in a scientific, engineering, or mathematical environment, and by those who plan graduate study in computer science or applied computational mathematics.

Information Systems Science (IS) Concentration

The IS concentration is for students who wish to enter the field of software systems analysis and development in an application area such as accountancy or management and by those who plan graduate study in certain areas of management science or information science.

Information Technology (IT) Concentration

The IT concentration is for students who wish to enter the field of web development, database and network management, and for those who plan graduate study in applied areas of computer science.

Grade Requirements

In order to graduate, a computer and information sciences major must attain:
1. An overall GPA of 2.50 or better; and
2. A GPA of 2.50 or better in all computer and information science courses; and
3. A grade of “C -” or better in all major requirements. This includes both common core and concentration specific courses, but not natural sciences; and
4. A minimum grade of “C -” in English 1010 and 1020.

All concentrations must complete 124 credit hours, including the ETSU General Education Requirements, the Common Computer and Information Sciences Core, and the Concentration Specific Courses.

Bachelor of Science Degree (B.S.) Computer and Information Sciences Major (CSCI)

Computer Science Concentration (CSCI)

ETSU Academic Proficiency Requirements

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

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

Using Information Technology: Students must complete at least one using information technology-intensive course in the major field of study.

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

TBR General Education Requirements .......... 41 Credit Hours

ENGL 1010 Critical Reading and Expository Writing ..........3
ENGL 1020 Critical Thinking and Argumentation ..........3
Communication:Oral Communication* **** ........3
MATH 1530 Probability & Statistics .....................3
Natural Sciences** .................................8
HIST 2010 The United States to 1877 ..................3
HIST 2020 The United States Since 1877 ................3
Humanities/Fine Arts* ..............................9
Social/Behavioral Sciences ..........................6
* See TBR General Education Core Requirements for options.
** Any 2-semester science sequence listed in the General Education Core Requirements except those for non-science majors.

Computer Science Common Core .......... 22 Credit Hours

CSCI 1510 Student in University* ......................3
CSCI 2150 Computer Organization ......................4
CSCI 4127 Database Management Systems I ............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 .................**
(See note above with TBR General Education Requirements.)
MATH 1530 Probability & Statistics .....................**
CSCI 1900 Math for Computer Science ................3
* For 1st semester freshmen only. If not taken or passed, another approved CSCI elective must be taken in its place.
** Satisfies TBR General Education Requirement.

Computer Science Concentration .......... 53 Credit Hours

CSCI 1250 Introduction to Computer Science I ..........4
CSCI 1260 Introduction to Computer Science II ..........4
CSCI 2160 Assembly Language .........................4
CSCI 2210 Data Structures .........................4
CSCI 2230 File Processing ..........................4
CSCI 4717 Computer Architecture ..................3
CSCI 4727 Operating Systems ....................3
Four Major Electives .......................................................... 12
(See Computer Science elective Categories; must include at least one
(1) from category A and at least one (1) from category B; required
courses do not count as electives.)

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(See list at the end of section for approved courses.)

Electives .............................................................................. 8 Credit Hours

Total Credit Hours Required for Degree ........ 124 Credit Hours

### Suggested Course Sequence

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#### Sophomore Year

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### Bachelor of Science Degree (B.S.)

#### Computer and Information Sciences Major (CSCI)

#### Information Systems Science Concentration (INSS)

ETSU Academic Proficiency Requirements

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

Using Information Technology: Students must complete at least one using information technology-intensive course in the major field of study.

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

### TBR General Education Requirements

- **ENGL 1010** Critical Reading and Expository Writing | 3
- **ENGL 1020** Critical Thinking and Argumentation | 3
- **Communication: Oral Communication** | 3
- **MATH 1530** Probability & Statistics | 3
- **Natural Sciences** | 8
- **HIST 2010** The United States to 1877 | 3
- **HIST 2020** The United States Since 1877 | 3
- **Humanities/Fine Arts** | 9
- **Social/Behavioral Sciences** | 6

* See TBR General Education Core Requirements for options.

** Any 2-semester science sequence listed in the General Education Core Requirements except those for non-science majors.

### Computer Science Common Core

- **CSCI 1510** Student in University | 3
- **CSCI 2150** Computer Organization | 4
- **CSCI 4127** Database Management Systems I | 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**
  (See note above with TBR General Education Requirements)...**
- **MATH 1530** Probability & Statistics | 3
- **CSCI 1900** Math for Computer Science | 3

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

** Satisfies TBR General Core Requirements.

### Information Systems Science Concentration

- **CSCI 1250** Introduction to Computer Science I | 4
- **CSCI 1260** Introduction to Computer Science II | 4
- **CSCI 1710** WWW - Design & Creation | 3
- **CSCI 2110** Data Structures | 3
- **CSCI 2235** Introduction to UNIX | 1
- **CSCI 2910** Client & Server Side Programming | 4
- **CSCI 4227** Advanced Database Systems | 3
- **CSCI 4417** System Administration | 3
- **Two CSCI Major Electives** | 6

* See Computer Science Major Elective categories. Must include at least one course from Category A and one from Category B. You may count required courses as electives.

### Information Systems Emphasis

- **MATH 1840** Analytical Geometry & Differential Calculus | 4
- **MATH 1910** Calculus I | 3-4

### 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

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Management Emphasis ........................................21 Credit Hours

ECON 2210 Principles of Economics .................... 3
ACCT 2010 Principles of Accounting ..................... 3
MGMT 3000 Organizational Behavior and .......... 3
MGMT 4010 Advanced Organizational Behavior ....... 3
MGMT 4020 Organizational Theory & Dev. Mgmt. ..... 3
Two approved MGMT electives ............................... 6

Especials ....................................................... 5 Credit Hours

Total Credit Hours Required .............................. 124 Credit Hours

Suggested Course Sequence

First Semester Credit Hours
Communication: Oral Communication ................ 3
CSCI 1910 Student in University ....................... 3
CSCI 1260 Introduction to Information Science ...... 4
CSCI 1900 Math for Computer Science ............... 3
MATH 1910 Calculus I ...................................... 3-4
Semester Total .............................................. 16-17

Second Semester Credit Hours
CSCI 1280 Introduction to Computer Science II .... 4
CSCI 2150 Computer Organization .................... 4
ENGL 1020 Critical Thinking and Argumentation .. 3
MATH 1940 Analytic Geometry & Differential Calc . 3
Semester Total .............................................. 14

Sophomore Year

First Semester Credit Hours
CSCI 2210 Data Structures ................................ 4
CSCI 1970 World Wide Web - Design ................. 3
MATH 1930 Probability and Statistics ................. 3
HIST 2010 The United States to 1877 ................. 3
Social/Behavioral Sciences .............................. 3
Semester Total .............................................. 16

Second Semester Credit Hours
CSCI 2235 Introduction to UNIX ......................... 4
CSCI 3460 Network Fundamentals ..................... 4
CSCI 2910 Client & Server Side Programming ......... 4
HIST 2020 The United States Since 1877 .......... 3
Social/Behavioral Sciences .............................. 3
Literature ................................................... 3
Semester Total .............................................. 17

Junior Year

First Semester Credit Hours
CSCI 4127 Database Management Systems I .......... 3
CSCI 3260 Software Engineering I ..................... 3
Natural Science ........................................... 4
Humanities/Fine Arts ..................................... 3
Course from Information Systems Area of Emphasis 3
Semester Total .............................................. 16

Second Semester Credit Hours
CSCI 3380 Software Engineering II ..................... 3
CSCI 4277 Database/Management Systems II ....... 3
Natural Science ........................................... 4
Course from Information Systems Area of Emphasis 3
Electives .................................................... 3
Semester Total .............................................. 16

Senior Year

First Semester Credit Hours
CSCI 4417 Systems Administration ..................... 3
CSCI Major Elective ............................... 3
Course from Information Systems Area of Emphasis 3
Course from Information Systems Area of Emphasis 3
Electives .................................................... 3
Semester Total .............................................. 15

Second Semester Credit Hours
CSCI Major Elective ............................... 3
Humanities/Fine Arts ..................................... 3
Course from Information Systems Area of Emphasis 3
Course from Information Systems Area of Emphasis 3
Electives .................................................... 3
Semester Total .............................................. 12

Bachelor of Science Degree (B.S.)

Information Technology Concentration (ITEC)

Computer and Information Sciences Major (CSCI)

ETCS Academic Proficiency Requirements

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

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

Using Information Technology: Students must complete at least one using information technology-intensive course in the major field of study.

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

TBR General Education Requirements ............. 41 Credit Hours

ENGL 1010 Critical Reading and Expository Writing . 3
ENGL 1020 Critical Thinking and Argumentation .... 3
Communication: Oral Communication ............... 3
MATH 3530 Probability & Statistics ................... 3
Natural Sciences ........................................... 8
HIST 2010 The United States to 1877 ................. 3
HIST 2020 The United States Since 1877 .......... 3
Humanities/Fine Arts ..................................... 9
Social/Behavioral Sciences .............................. 6
* See TBR General Education Core Requirements for options.
** Any 2-semester sequence listed in the General Education Core Requirements except those for non-science majors.

Computer Science Common Core ..................... 22 Credit Hours

CSCI 1510 Student in University ....................... 3
CSCI 2150 Computer Organization ..................... 4
CSCI 4127 Database Management Systems I ........... 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

(See note above with TBR General Education Requirements.) **

MATH 1530 Probability & Statistics ................... 3
CSCI 1900 Math for Computer Science ................. 3
* For 1st semester freshmen only. If not taken or passed, another approved CSCI elective must be taken in its place.
** Satisfies TBR General Core Requirements.

Information Technology Concentration .......... 40 Credit Hours

CSCI 1710 World Wide Web - Design and Creation ... 3
CSCI 1800 Visual Programming .......................... 4
Design with Applications ................................ 3
CSCI 2235 Introduction to UNIX ....................... 4
CSCI 2800 Visual Programming - Advanced Concepts .. 4
CSCI 2910 Client and Server Side Program ........... 4
CSCI 4217 Ethical Issues in Computing ................. 3
CSCI 4227 Database Management Systems II ....... 3
CSCI 4417 System Administration ..................... 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 A and at least 6 hours at the 3000/ 4000 level; required courses may not count as electives.

Especials ....................................................... 21 Credit Hours

Total Hours Required For Degree ..................... 124 Credit Hours

Suggested Course Sequence

Freshman Year

First Semester Credit Hours
Communication: Oral Communication ................ 3
CSCI 1710 WWW Design and Creation .................. 3
ENGL 1010 Critical Reading and Expository Writing . 3
CSCI 1900 Math for Computer Science ................. 3
Semester Total .............................................. 15

Second Semester Credit Hours
CSCI 1800 Visual Program Design ..................... 4
MATH 3530 Probability and Statistics ................. 3
ENGL 1020 Critical Thinking and Argumentation .... 3
Humanities ................................................... 3
Social/Behavioral Sciences .............................. 3
Semester Total .............................................. 16

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### Senior Year

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| Total             | **124**      |

### Computer Science Elective Categories

**Category A** (Concepts of Programming Languages):
- CSCI 1250
- CSCI 1260
- CSCI 1270
- CSCI 2160
- CSCI 3800
- CSCI 4910 (in this category)
- CSCI 4957 (in this category)

**Category B** (Advanced Topics):
- CSCI 1710
- CSCI 2210
- CSCI 2230
- CSCI 2910
- CSCI 4157
- CSCI 4217
- CSCI 4227
- CSCI 4317
- CSCI 4417
- CSCI 4517
- CSCI 4527
- CSCI 4717
- CSCI 4727
- CSCI 4800
- CSCI 4857
- MATH 4257
- MATH 4267
- CSCI 4910 (in this category)
- CSCI 4956/4957 (in this category)

### Information Technology Minor Track

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<td>CSCI 2150 Computer Organization</td>
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<td>CSCI 2210 Data Structures</td>
<td>4</td>
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<tr>
<td>CSCI Approved CSCI major electives, including at least six (6) hours at the 3000 level or above; CSCI 1100, 110x, and 1510 may not be included</td>
<td>11</td>
</tr>
</tbody>
</table>

* Note: A “C” or better is required in each of the courses taken to satisfy the requirements of the minor.

### Curriculum

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

ETSU Academic Proficiency Requirements

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

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

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

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

TBR General Education Requirements ............... 41 Credit Hours
ENGL 1010 Critical Reading and Expository Writing ........ 3
ENGL 1020 Critical Thinking and Argumentation ............ 3
Mathematics* ................................................................. 3-4
Natural Sciences* ............................................................. 3
HIST 2010 The United States to 1877 ............................. 3
HIST 2020 The United States Since 1877 ......................... 3
Humanities/Fine Arts/Literature* ....................................... 9
PSYC 1310 Introduction to Psychology ............................ 3
SOAA 1020 Introduction to Sociology .............................. 3

*See General Education Core Requirements.

Department Core Requirements ............. 16 Credit Hours
FACS 1110 Family Development ......................... 3
FACS 1500 Freshman Seminar ................................. 1
FACS 2500 Sophomore Seminar .............................. 1
FACS 3500 Junior Seminar ......................................... 1
FACS 4330 Family Management through Lifespan .......... 3
FACS 4500 Senior Seminar ......................................... 1
FACS 4537 Field Studies or
FACS 4261 Merchandising Internship ......................... 3
FACS 4547 Corporate Etiquette ................................. 3
PSYC 1310 Introduction to Psychology * ..................... 3
SOAA 1020 Introduction to Sociology * ....................... 3

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

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

Child and Family Studies Option ............... 63 Credit Hours
FACS 2000 Preparation for Marriage ...................... 3
FACS 2110 Infant/Toddler/Child Development ............ 3
FACS 2120 Foundations of Early Childhood .......................... 3
Development
FACS 3110 Parent/Child/School Relations .................... 3
FACS 3120 Computers & Technology in Early Childhood .... 1
FACS 3140 Guiding Young Children ......................... 3
FACS 3430 Community Nutrition ............................... 3
FACS 4127 Divorce: Causes and Consequences ................ 3
FACS 4137 Youth Violence - Intervention to Prevention .... 3
FACS 4537 Field Studies .............................................. 3
SOWK 4567 Human Sexuality ..................................... 3
SOAA 4507 Sociology of Aging ..................................... 3
SOAA 4087 Families in Transition ............................... 3
URBA 2610 Introduction to Public Administration ........... 3
ECON 1050 Economics and Society ............................ 3
HDAL 2330 Adolescent Psychology ............................ 3
HDAL 4007 Applications of Group Processes ................. 3
Electives* ................................................................. 14

Students may choose from the following suggested electives:
FACS 2200 Applied Design for Apparel & Interiors .......... 2
FACS 2220 Consumer Clothing Concerns .................... 3
WMST 2100 Women’s Studies ...................................... 3
SOAA 3030 Gender and Society ................................... 3
SOAA 4257 Power, Wealth, and Poverty ....................... 3
HDAL 4666 Cultural Influences in Development ............. 3
EODE 3120 Learning Environments in.......................... 3
Young Children
EODE 3150 Creative Development in Young Children ...... 3
EODE 4010 Observing & Assessing Young Children ........ 3
EODE 4150 Literacy for Young Children ...................... 3

Consumer Studies Option .......................... 63-65 Credit Hours
FACS 1410 Food Selection & Preparation ................... 4
FACS 1610 Historical Interiors .................................... 3
FACS 1620 Introduction to Contemporary Interiors ........... 3
FACS 2110 Infant/Toddler/Child Development ................ 3
MEDA 3570 Educational Technology ............................ 2
FACS 2205 Principles of Clothing ................................ 4
FACS 2000 Preparation for Marriage ......................... 3
FACS 3110 Parent/Child/School Relations ..................... 3
FACS 3220 Textiles I .................................................... 3
FACS 3450 Community Nutrition .................................. 3
FACS 3460 Issues in Education ..................................... 3
FACS 4700 Vocational FACS Curriculum & Methods ........ 4
HDAL 2330 Adolescent Psychology ............................ 3
Directed Electives* ....................................................... 19-21

Total Hours Required for Degree ......... 120-122 Credit Hours

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

Suggested Course Sequence

Freshman Year
First Semester Credit Hours
ENGL 1010 Critical Reading and Expository Writing ........ 3
ENGL 1020 Introduction to Sociology .................................. 3
SOAA 1020 Introduction to Sociology ................................... 3
FACS* Concentration Path .............................................. 4-5
Semester Total ................................................................. 14-15
Second Semester Credit Hours
ENGL 1010 Critical Thinking/Argumentation .................... 3
Natural Science* .............................................................. 4
FACS 1500 Freshman Seminar ......................................... 3
FACS 2500 Sophomore Seminar ....................................... 3
Semester Total ................................................................. 16

Sophomore Year

First Semester Credit Hours
HIST 2010 The United States to 1877 ............................. 3
HIST 2020 The United States Since 1877 ......................... 3
Mathematics* ................................................................. 3-4
FACS* Concentration Path .............................................. 6-7
Semester Total ................................................................. 13-14
Second Semester Credit Hours
ECON 1050 or 2220 .......................................................... 3
FACS* Concentration Path .............................................. 10
Semester Total ................................................................. 16

Junior Year

First Semester Credit Hours
HUM 1110 Family Development ...................................... 3
Mathematics* ................................................................. 3-4
FACS* Concentration Path .............................................. 12
Semester Total ................................................................. 15
Second Semester Credit Hours
FACS 4000 Junior Seminar ............................................. 3
FACS* Concentration Path .............................................. 12-15
Semester Total ................................................................. 13-16

Senior Year

First Semester Credit Hours
Humanities/Fine Arts elective ......................................... 3
FACS 4000 Family Management Through the Lifespan .... 3
FACS 4500 Senior Seminar ............................................. 1
FACS* Concentration Path .............................................. 9
Semester Total ................................................................. 16
### Child/Family/Consumer Studies Minor

**Minor in Child/Family/Consumer Studies** .......... 18 Credit Hours

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

### Nutrition and Dietetics

**Nutrition and Foods Concentration (NTFD)**

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

### Food Service Management

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

**ETSU Academic Proficiency Requirements**

- **Writing:** Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.
- **Oral Communication:** Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.
- **Using Information Technology:** Students must complete at least one using information technology-intensive course in the major field of study.

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

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### TBR General Education Requirements .......... 41 Credit Hours

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ENGL 1010</td>
<td>Critical Reading and Expository Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1020</td>
<td>Critical Thinking and Argumentation</td>
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</tr>
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<td>SPCH 1300, 2300, or 2320</td>
<td>Speech Fundamentals</td>
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<tr>
<td>MATH 1530</td>
<td>Probability &amp; Statistics</td>
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<tr>
<td>CHEM 1000</td>
<td>Chemistry and Well Being</td>
<td>4</td>
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<tr>
<td>BIOL 1020/1021</td>
<td>Biology for Non-Majors II</td>
<td>4</td>
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<tr>
<td>CHEM 1110/1111</td>
<td>General Chemistry Lecture/Lab</td>
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<tr>
<td>CHEM 1120/1121</td>
<td>General Chemistry Lecture/Lab</td>
<td>4</td>
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<td>HIST 2010</td>
<td>The United States to 1877</td>
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<tr>
<td>HIST 2020</td>
<td>The United States Since 1877</td>
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### Humanities/Fine Arts/Literature*

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<tbody>
<tr>
<td>PSYC 1310</td>
<td>Introduction to Psychology</td>
<td>3</td>
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<tr>
<td>SOAA 1020</td>
<td>Introduction to Sociology</td>
<td>3</td>
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</tbody>
</table>

*See TBR General Education Core Requirements.

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### Department Core Requirements .......... 16 Credit Hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>FACS 1110</td>
<td>Family Development</td>
<td>3</td>
</tr>
<tr>
<td>FACS 1500</td>
<td>Freshman Seminar</td>
<td>3</td>
</tr>
<tr>
<td>FACS 2500</td>
<td>Sophomore Seminar</td>
<td>1</td>
</tr>
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<td>FACS 3500</td>
<td>Junior Seminar</td>
<td>1</td>
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<tr>
<td>FACS 4330</td>
<td>Family Mgmt. through the Lifespan</td>
<td>3</td>
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<tr>
<td>FACS 4500</td>
<td>Senior Seminar</td>
<td>1</td>
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<tr>
<td>FACS 4261</td>
<td>Merchandising Internship</td>
<td>3</td>
</tr>
<tr>
<td>FACS 4537</td>
<td>Field Studies</td>
<td>3</td>
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<td>FACS 4547</td>
<td>Corporate Etiquette</td>
<td>3</td>
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<tr>
<td>PSYC 1310</td>
<td>Introduction to Psychology</td>
<td>3</td>
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<tr>
<td>SOAA 1020</td>
<td>Introduction to Sociology</td>
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*See TBR General Education Core Requirements.

### Nutrition and Foods Core Requirements .......... 22 Credit Hours

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<tbody>
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<td>FACS 1140</td>
<td>Food Selection and Preparation</td>
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<td>FACS 3430</td>
<td>Community Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>FACS 3460</td>
<td>Experimental Food Science</td>
<td>4</td>
</tr>
<tr>
<td>FACS 4417</td>
<td>Food Systems Operations</td>
<td>3</td>
</tr>
<tr>
<td>FACS 4467</td>
<td>Quantity Food Procurement &amp; Prod.</td>
<td>4</td>
</tr>
<tr>
<td>FACS 4497</td>
<td>Administration of Food Sv. Operations</td>
<td>4</td>
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</tbody>
</table>

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

(American Dietetic Association requires from General Education Core: CHEM 1110/1111, CHEM 1120/21, ECON 2210, MATH 1530, and CSCI 1100)

### Food Service Management .......... 41 Credit Hours

<table>
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<td>Principles of Accounting I</td>
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<tr>
<td>BADM 1130</td>
<td>Introduction to Business</td>
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<tr>
<td>ENVI 4607</td>
<td>Food Sanitation Principles</td>
<td>3</td>
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<td>FACS 2480</td>
<td>Food Service Management Internship</td>
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<tr>
<td>FACS 3470</td>
<td>Beverage Management</td>
<td>2</td>
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<td>FACS 3480</td>
<td>Food Service Management Internship</td>
<td>4</td>
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<tr>
<td>FACS 4225</td>
<td>Merchandising, Planning, and Control</td>
<td>3</td>
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<tr>
<td>FACS 4480</td>
<td>Food Service Management Internship</td>
<td>4</td>
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<tr>
<td>MKGT 3200</td>
<td>Introduction to Marketing</td>
<td>3</td>
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<tr>
<td>MGMT 3000</td>
<td>Introduction to Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3310</td>
<td>Legal Environment of Business</td>
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<td>MGMT 4510</td>
<td>Human Resources Management</td>
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<tr>
<td>Electives</td>
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### Total Hours Required for Degree .......... 120 Credit Hours

**Suggested Course Sequence**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ENGL 1010</td>
<td>Critical Reading and Expository Writing</td>
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<td>SOAA 1020</td>
<td>Introduction to Sociology</td>
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<td>Science Requirement</td>
<td>FACS 1500 Freshman Seminar</td>
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<td>FACS 4537</td>
<td>Field Studies</td>
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<td>FACS Concentration Path*</td>
<td>FACS 4537 Field Studies</td>
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</table>

*See TBR General Education Core Requirements.
East Tennessee State University

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

ETSU Academic Proficiency Requirements

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

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

Using Information Technology: Students must complete at least one using information technology-intensive course in the major field of study.

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

**TBR General Education Requirements ................................ 41 Credit Hours**

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

**Department Core Requirements.............................................. 16 Credit Hours**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
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<tr>
<td>FACS 4657</td>
<td>Architectural Study Tour</td>
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<tr>
<td>FACS 4610</td>
<td>Merchandising Internship</td>
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<td>FACS 4647</td>
<td>Corporate Etiquette</td>
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<td>FACS 4657</td>
<td>Field Studies</td>
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<td>FACS 4427</td>
<td>Diet in Disease I</td>
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<tr>
<td>FACS 1410</td>
<td>Food Selection and Preparation</td>
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<tr>
<td>FACS 2420</td>
<td>Principles of Nutrition</td>
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<td>FACS 3430</td>
<td>Community Nutrition</td>
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<tr>
<td>FACS 3465</td>
<td>Human Nutrition and Metabolism</td>
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<td>FACS 3460</td>
<td>Experimental Food Science</td>
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<tr>
<td>FACS 4427</td>
<td>Diet in Disease I</td>
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</table>

**Second Semester Credit Hours**  

**Requirements**  

**Mathematics** .................................................. 3-4

**Psychology** ..................................................... 3

**Field Studies** .................................................. 3

**Humanities/Fine Arts I** ......................................... 3

**Humanities/Fine Arts II** ........................................ 3

**Humanities/Fine Arts III** .................................... 3

**Humanities/Fine Arts IV** ...................................... 3

**Humanities/Fine Arts V** ....................................... 3

**Electives** ...................................................... 9

**Core Courses** .................................................. 4

**Humanities** .................................................... 3

**Fine Arts** ...................................................... 3

**Mathematics** .................................................. 3

**Communication** ................................................ 3

**Minor** .......................................................... 20

**Lower Division Courses** ..................................... 20

**Upper Division Courses** ..................................... 12

**Total** .......................................................... 32

**Third Semester Credit Hours**  

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

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

**Using Information Technology:** Students must complete at least one using information technology-intensive course in the major field of study.

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

**Nutrition and Foods Minor** ...................................... 20 Credit Hours

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<td>FACS 3660</td>
<td>Experimental Food Science</td>
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<tr>
<td>FACS 4417</td>
<td>Food Systems Operations</td>
</tr>
<tr>
<td>FACS 4467</td>
<td>Quantity Food Procurement and Production</td>
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</table>

**Food Service Management Minor**  

<table>
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<tr>
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<tbody>
<tr>
<td>FACS 1410</td>
<td>Food Selection and Preparation</td>
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<tr>
<td>FACS 4467</td>
<td>Quantity Food Procurement and Production</td>
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</table>

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

**Department Core Requirements**  

<table>
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<th>Course Code</th>
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<td>FACS 1110</td>
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<td>Architectural Study Tour</td>
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<td>FACS 4610</td>
<td>Merchandising Internship</td>
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<td>FACS 4647</td>
<td>Corporate Etiquette</td>
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<tr>
<td>FACS 1110</td>
<td>Basic Design (Studio)</td>
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<td>FACS 3221</td>
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<td>FACS 2611</td>
<td>Kitchen and Bath Planning</td>
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<td>FACS 2620</td>
<td>Design for Human Behavior</td>
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<tr>
<td>FACS 2630</td>
<td>Presentation: Studio II</td>
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<td>FACS 3615</td>
<td>Space Planning: Studio III</td>
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<tr>
<td>FACS 3621</td>
<td>Residential Design &amp; Housing</td>
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<tr>
<td>FACS 3625</td>
<td>AutoCad for Interior Design</td>
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<tr>
<td>FACS 3627</td>
<td>Materials and Methods</td>
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<td>FACS 3630</td>
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<td>Contract Design</td>
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<tr>
<td>FACS 4610</td>
<td>Health Care: Studio IV</td>
</tr>
<tr>
<td>FACS 4611</td>
<td>Hospitality: Studio V</td>
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<tr>
<td>FACS 4615</td>
<td>Professional Practices in Interior Design</td>
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<tr>
<td>FACS 4657</td>
<td>Architectural Study Tour</td>
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**Total Hours Required for Degree**  

**120 Credit Hours**
### Suggested Course Sequence

#### Freshman Year

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<tr>
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<td>ENGL 1010</td>
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<td>ARTA 1140</td>
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<td>FACS 1500</td>
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<td>Fine Arts Elective (ARTA 2020 recommended)</td>
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<td>Speech Elective</td>
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**Total** : 16

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<td>ARTA 1204</td>
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<td>MATH Elective</td>
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**Semester Total** : 15

#### Sophomore Year

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<td>FACS 2620</td>
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**Total** : 16

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<tr>
<td>Humanities Elective</td>
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<tr>
<td>FACS 2630</td>
<td>3</td>
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<tr>
<td>FACS 2650</td>
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**Semester Total** : 15

#### Junior Year

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<td>FACS 4610</td>
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<td>FACS 4500</td>
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<td>Science Elective</td>
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**Semester Total** : 14

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<tr>
<td>FACS 4611</td>
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<td>FACS 4546</td>
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<td>ENGL 1020</td>
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<td>SOOA 1020</td>
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**Semester Total** : 15

**Total** : 120

### Suggested Course Sequence

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

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>FACS 1620</td>
<td>Introduction to Contemporary Interiors</td>
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<tr>
<td>FACS 1621</td>
<td>Design Communication: Studio I</td>
<td>3</td>
</tr>
<tr>
<td>FACS 2611</td>
<td>Kitchen and Bath Planning</td>
<td>3</td>
</tr>
<tr>
<td>FACS 2620</td>
<td>Design for Human Behavior</td>
<td>3</td>
</tr>
<tr>
<td>FACS 2630</td>
<td>Presentation: Studio II</td>
<td>or</td>
</tr>
<tr>
<td>FACS 4240</td>
<td>Visual Merchandising</td>
<td>3</td>
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<tr>
<td>FACS 1610</td>
<td>Historical Interiors</td>
<td>3</td>
</tr>
<tr>
<td>FACS 3221</td>
<td>Textiles II</td>
<td>3</td>
</tr>
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### Department Core Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>FACS 4657</td>
<td>Architectural Study Tour</td>
<td>3</td>
</tr>
<tr>
<td>FACS 3615</td>
<td>Space Planning</td>
<td>3</td>
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### MERCHANDISING CONCENTRATION

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

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

#### ETSU Academic Proficiency Requirements

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

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

**Using Information Technology:** Students must complete at least one using information technology-intensive course in the major field of study. Transfer students may be subject to reduced number of intensives.

See ETSU Academic Proficiency Requirements for details.

#### TBR General Education Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credit Hours</th>
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<tbody>
<tr>
<td>ENGL 1010</td>
<td>Critical Reading and Expository Writing</td>
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<td>ENGL 1020</td>
<td>Critical Thinking and Argumentation</td>
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<tr>
<td>ENGL 1010</td>
<td>Critical Reading and Expository Writing</td>
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<tr>
<td>PSYC 1310</td>
<td>Introduction to Psychology</td>
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<tr>
<td>SOAA 1020</td>
<td>Introduction to Sociology</td>
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* See TBR General Education Core Requirements for options.

**Specific sequence required.** See major advisor.

### Department Core Requirements

<table>
<thead>
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<tbody>
<tr>
<td>FACS 1110</td>
<td>Family Development</td>
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<td>FACS 1500</td>
<td>Freshman Seminar</td>
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<td>FACS 2500</td>
<td>Sophomore Seminar</td>
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<td>FACS 3500</td>
<td>Junior Seminar</td>
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<td>FACS 4500</td>
<td>Senior Seminar</td>
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<tr>
<td>FACS 4537</td>
<td>Field Studies</td>
<td>3</td>
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<tr>
<td>FACS 4261</td>
<td>Merchandising Internship</td>
<td>3</td>
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<tr>
<td>FACS 4330</td>
<td>Family Management through the Lifespan</td>
<td>3</td>
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<td>FACS 4547</td>
<td>Corporate Etiquette</td>
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<td>PSYC 1310</td>
<td>Introduction to Psychology</td>
<td>3</td>
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<tr>
<td>SOAA 1020</td>
<td>Introduction to Sociology</td>
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</table>

### Select ONE of the following paths:

#### Merchandising Core Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ECON 1050</td>
<td>Economics and Society</td>
<td>3</td>
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<tr>
<td>FACS 2200</td>
<td>Applied Design for Apparel and Interiors</td>
<td>2</td>
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<tr>
<td>FACS 3220</td>
<td>Textiles I</td>
<td>3</td>
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<td>FACS 3221</td>
<td>Textiles II</td>
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<tr>
<td>FACS 4225</td>
<td>Merchandise Planning and Control</td>
<td>3</td>
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<td>FACS 4230</td>
<td>Merchandise Buying</td>
<td>3</td>
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<tr>
<td>FACS 4240</td>
<td>Visual Merchandising</td>
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</tr>
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<td>FACS 4250</td>
<td>Advertising &amp; Promotion</td>
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<tr>
<td>FACS 4221</td>
<td>Merchandising Study Tour</td>
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<td>FACS 4261</td>
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<td>FACS 4260</td>
<td>Merchandising Seminar</td>
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Apparel Option ........................................................ 34 Credit Hours
FACS 2205 Principles of Clothing ........................................ 4
FACS 2220 Consumer Clothing Concentration ....................... 3
FACS 3210 Apparel Quality Analysis ...................................... 4
FACS 3230 Fashion Fundamentals ........................................ 3
FACS 4220 Fashion Merchandising ........................................ 3
Electives ........................................................................... 2
Directed Electives ** (see below) .......................................... 15

Interiors Option .................................................................... 34 Credit Hours
FACS 1610 Historical Interiors .............................................. 3
FACS 1620 Introduction to Contemporary Interiors ................... 3
FACS 1621 Design Communication: Studio I ......................... 3
FACS 2611 Kitchen and Bath Planning ................................... 3
FACS 2620 Design for Human Behavior ............................... 3
Electives ........................................................................... 4
Directed Electives** (see below) .......................................... 15

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

ACCT 2010 Accounting I .................................................... 3
ARTA 1204 Color Theory* .................................................. 3
ARTS 2071 Beginning Weaving* ......................................... 3
ARTA 2200 Basic Photography* ........................................... 3
ARTA 3071 Intermediate Weaving I .................................... 3
ARTA 3072 Intermediate Weaving II ................................... 3
ARTA 3073 Fiber Construction* .......................................... 3
ARTA 3380 Natural & Chemical Dyeing* ............................ 3
ARTA 3601 Intermediate Photography* ............................... 3
ARTA 4073 Fabric Design* .................................................. 3
FACS 3603 Advanced Lighting* ........................................... 3
FACS 3625 AutoCad for ID* ............................................... 3
MGMT 3310 Legal Environment of Business ......................... 3
MGMT 3320 Management and Social Responsibility ............... 3
MGMT 3650 Supply Chain Management ............................... 3
MKTG 3200 Principles of Marketing .................................... 3
MKTG 3202 Consumer Behavior ........................................ 3
MKTG 3310 Business Logistics ............................................ 3
MKTG 3350 Retailing ........................................................ 3
MKTG 3740 Sales Force Management ................................. 3
MKTG 3750 Advertising Campaign Management .................. 3
FACS Concentration Path* ............................................... 12

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

Second Semester Credit Hours
ENGL 1020 Critical Thinking and Argumentation .................. 3
EN GL 1020 Intro to Psychology ........................................... 3
ECON 1050 Intro to 2220 ..................................................... 3
Semester Total ................................................................. 16

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

Junior Year Credit Hours
First Semester Credit Hours
Humanities/Fine Arts Elective .............................................. 3
FACS Concentration Path* ............................................... 12
Semester Total ................................................................. 15
Second Semester Credit Hours
FACS 2500 Junior Seminar ................................................... 3
FACS Concentration Path* ............................................... 12
Semester Total ................................................................. 13

Senior Year Credit Hours
First Semester Credit Hours
Humanities/Fine Arts Elective .............................................. 3
FACS 4330 Family Management through Lifespan ................. 3
FACS 4500 Senior Seminar ............................................... 1
FACS Concentration Path* ............................................... 9
Semester Total ................................................................. 16
Second Semester Credit Hours
FACS 4537 Field Studies ................................................... 3
FACS 4601 Merchandising Internship ................................... 3
FACS 4547 Corporate Etiquette .......................................... 3
FACS Concentration Path* ............................................... 9
Total ................................................................. 120

*Majors must complete specific electives.

Department of Technology and Geomatics
Box 70552 Phone: (423) 439-7822

email: johnsonk@etsu.edu

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

The Department of Technology and Geomatics offers a master of science degree.

TRANSFERRING TECHNICAL ASSOCIATE DEGREES

All non-technology coursework such as math, science, and English is evaluated for transfer by an analyst in the Office of Admissions. All technology coursework submitted for transfer will be analyzed by the department chair or the appropriate program coordinator. The following criteria apply:

1. Coursework must have been taken at a regionally accredited two- or four-year institution.
2. Coursework must be equivalent to an ETSU course; if not, it will count as elective credit.
3. Only courses for which a grade of ‘C’ or higher was earned will be accepted for transfer credit for courses in technology, mathematics or science.
4. No associate degree coursework will be accepted for Engineering Technology coursework at the 4xxx level.

In consultation with the associate degree-holding student, an agreement will be written listing the coursework that must be successfully completed by the student to receive a Bachelor of Science degree with a major in technology.

Students contemplating the transfer of their technology-based associate degree should read the policy statement regarding transfer student admissions elsewhere in this catalog and confer with a Department of Technology and Geomatics advisor.

Minor

A minor in technology is available to students who wish to acquire technical knowledge and skills. Requirements for the minor are 21 credit hours (nine of which must be upper division courses) of study in the department. Concentration study in a particular technical area is encouraged. Students must meet the prerequisites listed in the catalog for a particular course they wish to take or obtain permission of the instructor.

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

BIOMEDICAL ENGINEERING TECHNOLOGY CONCENTRATION

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

Bachelor of Science Degree (B.S.)

Engineering Technology Major

Biomedical Engineering Technology Concentration (BIOM)

ETSU Academic Proficiency Requirements:

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

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

Using Information Technology: Students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See ETSU Academic Proficiency Requirements for details.

TBR General Education Core Requirements .... 41 Credit Hours

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<td>Critical Thinking and Argumentation</td>
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<td>MATH 1530</td>
<td>Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2010</td>
<td>The United States to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2020</td>
<td>The United States Since 1877</td>
<td>3</td>
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<tr>
<td>PHYS 2010</td>
<td>General Physics Lecture/Lab I</td>
<td>4</td>
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<td>CHEM 1110</td>
<td>General Chemistry I Lecture/Lab I</td>
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<td>ENTC 3020</td>
<td>Technology and Society</td>
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<td>ENTC 4277</td>
<td>Instrum./Process Control</td>
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<td>ENTC 4337</td>
<td>Electronics-Microprocessors</td>
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<td>ENTC 4347</td>
<td>Digital Signal Processors</td>
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<td>Biomedical Instrumentation</td>
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<tr>
<td>ENTC 4390</td>
<td>Medical Imaging Equipment</td>
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<td>HSCI 2010</td>
<td>Anatomy and Physiology I</td>
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<td>HSCI 2020</td>
<td>Anatomy and Physiology II</td>
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<tr>
<td>MATH 1720</td>
<td>Precalculus</td>
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<tr>
<td>MATH 1840</td>
<td>Analytic Geometry and Differential Calculus</td>
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<td>Integral Calculus for Technology</td>
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<td>ENTC 2170</td>
<td>Computer Aided Design Drafting (CADD)</td>
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<td>Analytic Geometry &amp; Differential Calculus</td>
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<td>Digital Animation</td>
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<td>RF Fundamentals</td>
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<td>ENTC 2330</td>
<td>Network Systems</td>
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<td>ENTC 2310</td>
<td>Electrical Principles</td>
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<td>ENTC 2320</td>
<td>Electronics I</td>
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<td>ENTC 2330</td>
<td>Circuit Analysis</td>
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<td>ENTC 2331</td>
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<td>Analytic Geometry and Differential Calculus</td>
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<td>MATH 1850</td>
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<tr>
<td>ENTC 2170</td>
<td>Computer Aided Design Drafting (CADD)</td>
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<td>Critical Thinking and Argumentation</td>
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<tr>
<td>CHEM 1110</td>
<td>General Chemistry I</td>
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<tr>
<td>MATH 1840</td>
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Total Hours Required for Degree ........ 128 Credit Hours

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<th>Suggested Course Sequence</th>
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Students must complete at least one ETSU Academic Proficiency Requirement:

TBR General Education Core Requirements ..... 41 Credit Hours

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<th>Course Title</th>
<th>Credit Hours</th>
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<td>Critical Thinking and Argumentation</td>
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**Second Semester**

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<td>ENTC 3100</td>
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<tr>
<td>ENTC 3003</td>
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**Junior Year**

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<td>Industrial Supervision</td>
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**Senior Year**

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**Construction Engineering Technology Concentration**

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

This concentration offers a diversified curriculum that prepares individuals for employment in construction management. This program of training involves field operations and office management.

**Bachelor of Science Degree (B.S.)**

Engineering Technology Major (ENTC)

**Construction Engineering Technology Concentration (CONS)**

ETSU Academic Proficiency Requirements:

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

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

**Using Information Technology:** Students must complete at least one using information technology-intensive course in the major field of study.

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

**TBR General Education Core Requirements ..... 41 Credit Hours**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<td>Critical Reading and Expository Writing</td>
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<td>ENGL 1020</td>
<td>Critical Thinking and Argumentation</td>
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<td>MATH 1530</td>
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**Second Semester**

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**Technology Core Requirements ..... 19 Credit Hours**

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<td>ENTC 2170</td>
<td>Computer Aided Design Drafting</td>
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<td>ENTC 3030</td>
<td>Technical Communication</td>
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<td>ENTC 4017</td>
<td>Industrial Supervision</td>
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<td>ENTC 4060</td>
<td>Project Scheduling</td>
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<tr>
<td>ENTC 4600</td>
<td>Technology Practicum</td>
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**Construction Engineering Concentration Requirements ..... 68 Credit Hours**

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<td>Construction Fundamentals</td>
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<td>Residential &amp; Commercial Planning</td>
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<td>ENTC 2440</td>
<td>Mechanical Systems</td>
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<tr>
<td>ENTC 3410</td>
<td>Construction Estimating</td>
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<td>Advanced Construction Estimating</td>
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<tr>
<td>ENTC 3430</td>
<td>Materials &amp; Methods I</td>
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<td>ENTC 3440</td>
<td>Materials &amp; Methods II</td>
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<td>ENTC 3620</td>
<td>Thermal &amp; Fluid Technologies</td>
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<tr>
<td>ENTC 3650</td>
<td>Applied Electricity-Electronics</td>
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<td>ENTC 4417</td>
<td>Construction Financing &amp; Admin.</td>
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<td>ENTC 4777</td>
<td>Safety Management</td>
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<td>Surveying Measurement Fundamentals</td>
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<td>Legal Environment of Business</td>
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<td>Precalculus</td>
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<td>MATH 1840</td>
<td>Analytic Geometry and Differential Calculus</td>
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### Junior Year

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<td>ENTC 3400</td>
<td>Construction Material Testing</td>
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<td>ENTC 3410</td>
<td>Construction Estimating</td>
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<td></td>
<td>ACCT 2010</td>
<td>Introduction to Accounting</td>
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<td>MGMT 3310</td>
<td>Legal Environment of Business</td>
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<td>ENTC 3550</td>
<td>Hydraulics Technology</td>
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<tr>
<td>ENTC 3430</td>
<td>Materials and Methods I</td>
<td>4</td>
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<tr>
<td>HIST 2010</td>
<td>Students must complete a minimum of four writing-intensive communication-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level. specialties. It prepares individuals for job opportunities in all areas of electronics with selection of the general specialty.</td>
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### Senior Year

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<td>ENTC 3440</td>
<td>Materials and Methods II</td>
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<td>ENTC 4417</td>
<td>Construction Financing and Admin</td>
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<td>ENTC 3020</td>
<td>Technology and Society</td>
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<td>Literature</td>
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<tr>
<td>ENTC 4060</td>
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<td>ENTC 4000</td>
<td>Technical Practicum</td>
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<td>ENTC 4017</td>
<td>Industrial Supervision</td>
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<td>SURV 2560</td>
<td>Surveying Measurement Fundamentals</td>
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</table>

**Total Hours Required for Degree**: 128 Credit Hours

### ELECTRONICS ENGINEERING TECHNOLOGY CONCENTRATION

This program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET). This concentration emphasizes electronics specialties in the areas of Telecommunications and Instrumentation and Automation. It prepares individuals for job opportunities in all areas of electronics with selection of the general specialty.

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

This program is accredited by the Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering and Technology (ABET). This concentration emphasizes electronics specialties in the areas of Telecommunications and Instrumentation and Automation. It prepares individuals for job opportunities in all areas of electronics with selection of the general specialty.

### ETSU Academic Proficiency Requirements:

- **Writing**: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study. At least two of the four courses must be at the 3000-4000 level.
- **Oral Communication**: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.
- **Using Information Technology**: Students must complete at least one using information technology-intensive course in the major field of study.

Transfer students may be subject to reduced number of intensives.

See ETSU Academic Proficiency Requirements for details.

### TBR General Education Core Requirements .... 41 Credit Hours

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<tr>
<th>Course Code</th>
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<td>Critical Thinking and Argumentation</td>
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<td>Communication: Oral Communication</td>
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<td>Social/Behavioral Sciences Elective</td>
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**Literature Elective** | 3 |
**MATH 1530** | Probability and Statistics | 3 |
**PHYS 2010/11** | Physics I | 4 |
**PHYS 2020/21** | Physics II | 4 |
**ENTC 3250** | Technology and Society | 3 |
**HIST 2010** | The United States to 1877 | 3 |
**HIST 2020** | The United States Since 1877 | 3 |

*Select TBR General Education Core Requirements.

### Technology Core Requirements ............... 19 Credit Hours

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### Additional Requirements ................. 68 Credit Hours

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<td>General Chemistry I</td>
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<td>ENTC 2310</td>
<td>Electronic Principles</td>
<td>4</td>
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<td>Electronics I</td>
<td>4</td>
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<td>Circuit Analysis</td>
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<td>ENTC 3320</td>
<td>Electronics II</td>
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<td>ENTC 3370</td>
<td>Electronics Digital Circuits</td>
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<td>ENTC 4037</td>
<td>Quality Assurance I</td>
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<td>Electronics Communications</td>
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<td>ENTC 4337</td>
<td>Microprocessors</td>
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<td>Precalculus</td>
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<td>MATH 1840</td>
<td>Analytic Geometry &amp; Diff. Calculus</td>
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### Total Hours Required for Degree ............... 128 Credit Hours

### Suggested Course Sequence

#### Freshman Year

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<td>Communication: Oral Communication</td>
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<tr>
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<td>CADD (Computer Aided Design) Drafting</td>
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<td>Precalculus</td>
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<td>CHEM 1110/11</td>
<td>General Chemistry Lecture/Lab</td>
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<td>Electrical Principles</td>
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#### Sophomore Year

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<td>Electronics I</td>
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<td>ENTC 1850</td>
<td>Integral Calculus</td>
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<td>Fine Arts Elective</td>
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<td>Communication: Oral Communication</td>
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<td>Social/Behavioral Sciences Elective</td>
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East Tennessee State University

### Junior Year

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<tr>
<td>ENTC 3070</td>
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<tr>
<td>ENTC 3030</td>
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<tr>
<td>ENTC 4007</td>
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<tr>
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<tr>
<td>ENTC 4060</td>
<td>Project Scheduling</td>
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<td>HIST 2020</td>
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### Senior Year

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<tr>
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<td>ENTC 4327</td>
<td>Microprocessors</td>
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<td>ENTC 4017</td>
<td>Industrial Supervision</td>
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<td>ENTC 4600</td>
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<td>ENTC 4277</td>
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(1) MATH 1910 and MATH 1920 (8 credit hours) will satisfy the requirement of MATH 1840 and 1850 (6 credit hours).
(2) See catalog for course numbers that will satisfy this requirement.
(3) Select one course: ENGL 2030, ENGL 2130, ENGL 2210, ENGL 2220, ENGL 2350, or ENGL 2430.
(4) Potentially four courses (4 credit hours) satisfy this requirement. Consult catalog for course numbers.
(5) Each student must complete the courses in one of the following specialties:

**Telecommunications:** ENTC 2330; ENTC 4307; ENTC 4347

**Inst. & Automation:** ENTC 4277; ENTC 4287; ENTC 4237

General: Choose 11 credit hours from courses listed above.

To Students Transferring into the Electronics Engineering Technology Program at ETSU

All students, including transfer students, must complete the published curriculum in electronics engineering technology in effect the year of their entry into the program. All students transferring into the B.S. degree electronics engineering technology program must take a minimum of four electronics courses that must include ENTC 3310—Circuit Analysis. No associate degree coursework will be accepted for electronic coursework at the 4XXX level.

If the student is from a program that is not accredited by the Accreditation Board for Engineering and Technology (ABET), the required minimum must also include ENTC 3320—Electronics II. It is the students’ responsibility to provide evidence that the transferred coursework was completed at an ABET-accredited institution. (This information would usually be found in the school’s catalog.)

**INDUSTRIAL TECHNOLOGY CONCENTRATION**

This concentration is a management-oriented curriculum with studies drawn from a variety of disciplines related to industry. The graduate develops skills to help solve managerial, technical, and production problems.

**Bachelor of Science Degree (B.S.) Engineering Technology Major (ENTC) Industrial Technology Concentration (INDU)**

ETSU Academic Proficiency Requirements:

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

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

**Using Information Technology:** Students must complete at least one using information technology-intensive course in the major field of study.

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

**TBR General Education Core Requirements**

<table>
<thead>
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<th>Course</th>
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<td>ENGL 1020 Critical Thinking and Argumentation</td>
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<td>SPCH 2000 Public Speaking</td>
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<td>MATH 1510 Probability and Statistics</td>
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<tr>
<td>CHEM 1110 General Chemistry I Lecture/Lab</td>
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<tr>
<td>PHYS 2010 General Physics I Lecture/Lab</td>
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<td>HIST 2010 The United States to 1877</td>
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<td>HIST 2020 The United States Since 1877</td>
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<td>ECON 2210 Principles of Economics I</td>
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<td>PSYC 1310 Introduction to Psychology</td>
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<tr>
<td>ENTC 3020 Technology &amp; Society</td>
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<tr>
<td>ENTC 3030 Manufacturing Processes &amp; Specification</td>
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<tr>
<td>ENTC 2200 Machine Tool Technology</td>
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<tr>
<td>ENTC 2310 Electrical Principles</td>
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<td>ENTC 3650 Applied Electricity and Electronics</td>
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<td>ENTC 3670 Energy/Power/Transportation</td>
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**Technology Core Requirements**

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<td>ENTC 2170 CADD</td>
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<td>ENTC 4017 Industrial Supervision</td>
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<td>ENTC 4660 Project Scheduling</td>
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<td>ENTC 4600 Technology Practicum</td>
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**Industrial Technology Core Requirements**

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<td>ENTC 2310 Electrical Principles</td>
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<td>ENTC 3560 Applied Electricity and Electronics</td>
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<td>ENTC 3620 Thermal and Fluid Technologies</td>
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**Industrial Operations Requirements**

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<td>ENTC 4037 Quality Assurance I</td>
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<td>ENTC 4227 Engineering Economy</td>
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<td>CSCI 1710 World Wide Web - Design and Creation **</td>
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<td>MATH 1720 Pre-Calculus</td>
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<td>MATH 1840 Analytical Geometry &amp; Differential Calculus</td>
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<td>MGMT 3000 Organizational Management</td>
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<td>MGMT 3310 Legal Environment of Business</td>
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**Total Hours Required for Degree**

120 Credit Hours

---

* Cooperative Education (ENTC 4989-99) may be substituted for ENTC 3600.
** Technical and general electives should be selected with the goal of developing a depth of understanding in one or two technical areas. Select courses from manufacturing, electronics, engineering design graphics, computer science, management science, construction, or surveying.
*** CSCI 2100 (4), 1310 (4), or 1800 (4) may be substituted for CSCI 1710.
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
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<td>ENGL 1010 Critical Reading and Expository Writing</td>
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<td>MATH 1720 Pre-Calculus</td>
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<td>Literature/Fine Arts*</td>
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<td>ENTC 2170 CADD</td>
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<td>CHEM 1110/11 General Chemistry Lecture/Lab</td>
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<td>ENGL 1020 Critical Thinking and Argumentation</td>
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<td>MATH 1840 Analytical Geometry &amp; Differential Calculus</td>
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<td>PSCY 1310 Introduction to Psychology</td>
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**Sophomore Year**

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<td>ENTC 2200 Machine Technology</td>
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<td>MATH 1530 Probability and Statistics - NonCalculus</td>
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<td>PHYS 2010/11 General Physics Lecture/Lab</td>
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<td>SPCH 2300 Public Speaking</td>
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<td>ENTC 2310 Electrical Principles</td>
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**Junior Year**

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<td>CSCI 1710 World Wide Web - Design &amp; Creation</td>
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<td>HIST 2020 The United States Since 1877</td>
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<tr>
<td>ENTC 3200 Technology and Society</td>
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<td>ENTC 3620 Thermal &amp; Fluid Technologies</td>
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<td>ENTC 3600 Manufacturing Technology</td>
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<td>ENTC 4989 Co-Op</td>
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<td>ECON 2210 Principles of Economics I</td>
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**Senior Year**

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<td>MGMT 3000 Organizational Management</td>
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<td><strong>Second Semester</strong></td>
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<td>ENTC 4017 Industrial Supervision</td>
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<td>ENTC 4000 Technology Practicum</td>
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<td>ENTC 4777 Safety Management</td>
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<td>MGMT 3310 Legal Environment of Business</td>
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**MANUFACTURING ENGINEERING TECHNOLOGY CONCENTRATION**

This program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology. This concentration provides students with experiences in the major elements of manufacturing. Graduates are able to apply their knowledge and understanding to manufacturing processes and supervision.

**Bachelor of Science Degree (B.S.) Engineering Technology Major (ENTC) Manufacturing Technology Concentration (MANU)**

**ETSU Academic Proficiency Requirements:**

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

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

**Using Information Technology:** Students must complete at least one using information technology-intensive course in the major field of study.

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

**TBR General Education Core Requirements .... 41 Credit Hours**

<table>
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<tr>
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<td>ENGL 1010 Critical Reading and Expository Writing</td>
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<td>ENGL 1020 Critical Thinking and Argumentation</td>
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<td>Communication: Oral Communication*</td>
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<tr>
<td>MATH 1530 Probability and Statistics</td>
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<td>HIST 2010 The United States to 1877</td>
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<tr>
<td>HIST 2020 The United States Since 1877</td>
<td></td>
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<tr>
<td>PHYS 2010/11 General Physics Lecture/Lab I</td>
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<td>PHYS 2020/21 General Physics Lecture/Lab II</td>
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<tr>
<td>CHEM 1110/11 General Chemistry Lecture/Lab</td>
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<tr>
<td>Literature/Fine Arts*</td>
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<tr>
<td>ENTC 3020 Technology and Society</td>
<td>3</td>
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<tr>
<td>ECON 2210 Principles of Economics, Part I</td>
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<tr>
<td>PSYC 1310 Introduction to Psychology</td>
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**See TBR General Education Core Requirements.**

**Technology Core Requirements ................. 19 Credit Hours**

<table>
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<th>Course</th>
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<tbody>
<tr>
<td>ENTC 1510 Student in University</td>
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<td>ENTC 2170 CADD</td>
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**Manufacturing Core Requirements ............ 23 Credit Hours**

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<td>ENTC 2200 Machine Tool Technology</td>
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<td>ENTC 2310 Electrical Principles</td>
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<tr>
<td>ENTC 3710 Manual CNC Programming</td>
<td>3</td>
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<tr>
<td>ENTC 4037 Quality Assurance I</td>
<td>3</td>
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<tr>
<td>ENTC 4357 CIM Applications</td>
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<td>ENTC 4777 Safety Management</td>
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<td>CHEM 1110/11 General Chemistry Lecture/Lab</td>
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**Technical Support Core Requirements .......... 17 Credit Hours**

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<td>MATH 1720 Precalculus</td>
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<td>MATH 1840 Analytical Geo. &amp; Diff. Calculus</td>
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<td>MATH 1850 Integral Calculus for Technology</td>
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**Specialty Sequence Requirements ............. 29 Credit Hours**

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<td>ENTC 4287 Introduction to Robotics</td>
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<td>ENTC 4277 Instrumentation and Process Control</td>
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<td>ENTC 4327 Electrons—Digital Circuits</td>
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<td>ENTC 4337 Microprocessors</td>
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**Speciality Sequence (Choose One)**

**Programming & Automation Sequence .......... 26-27 Credit Hours**

<table>
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<td>ENTC 4277 Instrumentation and Process Control</td>
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<td>ENTC 4327 Electrons—Digital Circuits</td>
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<tr>
<td>ENTC 4337 Microprocessors</td>
<td>4</td>
</tr>
</tbody>
</table>

**Choose any three or more of the following ENTC classes:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTC 3350 Industrial Electronics</td>
<td>3</td>
</tr>
<tr>
<td>ENTC 4287 Introduction to Robotics</td>
<td>3</td>
</tr>
<tr>
<td>ENTC 4277 Instrumentation and Process Control</td>
<td>4</td>
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<tr>
<td>ENTC 4327 Electrons—Digital Circuits</td>
<td>4</td>
</tr>
<tr>
<td>ENTC 4337 Microprocessors</td>
<td>4</td>
</tr>
</tbody>
</table>

**2006-2007 Undergraduate Catalog**

115
General Manufacturing Sequence ............................ 26-29 Credit Hours
ENTC 3000 Static & Strength of Materials .......................... 3
ENTC 3240 Engr. Materials & Materials Testing ................. 4
ENTC 3620 Thermal and Fluid Technologies ...................... 4
ENTC 4257 Plant Layout & Materials Handling .................. 3

Choose any five or more of the following ENTC classes:
ENTC 3600 Manufacturing Technology ............................. 3
ENTC 3680 Polymers & composites ................................. 3
ENTC 4227 Engineering Economy .................................. 3
ENTC 4237 Ergonomics & Process Engineering ................. 4
ENTC 4247 Operational Analysis .................................... 3
ENTC/CSCI Elective ....................................................... 4
ENTC/CSCI Elective ....................................................... 4

1. For details regarding the General Education Requirements and course selection, see the appropriate undergraduate catalog.
2. MATH 1840, 1850, 1910, or 1920 may satisfy the General Education Requirement.
3. MATH 1910 and MATH 1920 will satisfy the MATH 1840/1850 sequence.
4. CHEM 1120/21 may be substituted for PHYS 2020/21.
5. Cooperative Education (ENTC 4989/4999) may be substituted for ENTC 3600.
6. ENTC/CSCI electives may be chosen from any of the above offerings or any of the following: ENTC 4217, 4347, 4900, 4957, 4989/99 or CSCI 1250, 1710, 1800, or 2100.
7. In special cases and only with the approval of a MET program advisor, a student may develop a track of technical electives selected with the goal of developing proven technical understanding and competence in one or two manufacturing areas.

Suggested Course Sequence

Freshman Year
First Semester
ENGL 1010 Critical Reading and Expository Writing ............... 3
ENTC 1510 Student in University .................................... 2
Communication: Oral Communication ............................... 3
Social/Behavioral Sciences ............................................. 3
MATH 1720 Precalculus ................................................ 3
Semester Total ............................................................... 14

Second Semester
ENTC 2170 Computer Aided Design ............................... 4
ENTC 1110 Engineering Drawing ..................................... 4
ENGL 1030 Critical Thinking and Argumentation ............... 3
MATH 1840 Analytic Geometry & Differential Calculus ...... 4
Humanities/Fine Arts ...................................................... 3
Semester Total ............................................................... 17
Semester Total ............................................................... 16

Sophomore Year
First Semester
ENTC 1120 Manufacturing Processes and Specification .......... 3
ENTC 2200 Machine Tool Technology .............................. 4
ENTC 2300 Electrical Principles ...................................... 4
PHYS 2010/11 General Physics Lecture/Lab I .................... 4
MATH 1850 Integral Calculus for Technology ..................... 3
Semester Total ............................................................... 16

Second Semester
ENTC 3000 Technical Communication ............................. 3
ENTC 3790 Manual CNC Programming ............................. 3
ENTC 4077 CIM Applications ......................................... 3
MATH 1530 Probability and Statistics .............................. 3
PHYS 2020/21 General Physics II Lecture/Lab .................... 4
Semester Total ............................................................... 16

Junior Year
First Semester
Specialty Course ......................................................... 3
ENTC 3620 Thermal and Fluid Technologies ...................... 4
ENTC 4777 Safety Management ....................................... 3
ENTC 4600 Technical Pracicum ....................................... 4
HIST 2010 The United States to 1877 .............................. 3
Semester Total ............................................................... 17

Second Semester
ENTC 4080 Project Scheduling ....................................... 3
ENTC 4037 Quality Assurance I ...................................... 3
HIST 2200 The United States Since 1877 .......................... 3
Specialty courses ......................................................... 7
Semester Total ............................................................... 16

Senior Year
First Semester
ENTC 3000 Technology & Society .................................. 3
CSCI 2100 Introduction to “C” ....................................... 4
Specialty Courses ......................................................... 6
Science ........................................................................ 3
Semester Total ............................................................... 16

Second Semester
ENTC 4017 Industrial Supervision .................................. 3
Specialty Course ........................................................... 3
Humanities/Fine Arts ..................................................... 3
Social/Behavioral Sciences ............................................. 3
Electives ...................................................................... 2
Semester Total ............................................................... 14
Total ................................................................. 128

DIGITAL MEDIA

The Digital Media Program seeks to bridge the arts and sciences by providing students with technical knowledge, an understanding of aesthetics, and practical experience in digital media, with a core emphasis on learning how to develop and express ideas, solve problems, and create digital media content. This program leads students through project, and process-based learning experiences that teach them how to define, design, and develop digital media content, computer graphics, and interactive media. The program endeavors to bring together students, faculty, and industry professionals to realize interdisciplinary initiatives and prepare students for the professional challenges of the 21st century in careers in 3-D visualization, animation, interactive design, web media, product design, and digital video.

Areas of concentration in Digital Media include:

Digital Animation—This concentration gives students the background necessary to animate in any media/software with strong skills in one of several specialty areas of animation, such as character animation and special effects animation. Students in the animation concentration would typically be preparing for careers in 3-D animation, 2-D animation, motion graphics, character animation, and technical direction.

Digital Interaction—This concentration gives students the background necessary to design and develop in any media/software with an emphasis on usability, interactive design, problem-solving, production processes, animation and interactive programming. Students in the Interaction Design concentration would typically be preparing for careers in the Internet and interactive multimedia entertainment, gaming, education, corporate training, and marketing industries.

Digital Visualization—This concentration gives students the background necessary to create 3-dimensional digital models that solve visual problems and provide solutions for both the physical and virtual worlds. Students in this concentration would typically be preparing for careers in product design, architecture, interior design, entertainment, gaming, and scientific data visualization.

Students in the Digital Media program must complete a portfolio of core coursework and pass a progress review by their junior year before taking upper-level DIGM courses. A final portfolio in the senior year must be submitted in order to graduate. A committee of Digital Media faculty, including the student’s major advisor, will evaluate each student’s work and progress at the review and evaluate the final portfolio. No grade below a “C” in Digital Media required core and DIGM courses may be applied to the B.S. degree. Students are advised to work closely with their advisor in preparation for the review.

Digital Media Fee—A Digital Media Enhancement Fee of $100 per semester hour will be applied to all DIGM courses for all students.
### Bachelor of Science Degree (B.S.)

**Digital Media Major (DIGM)**

**ETSU Academic Proficiency Requirements:**

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

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

**Using Information Technology:** Students must complete at least one using information-technology-intensive course in the major field of study.

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

**TBR General Education Core Requirements .... 41 Credit Hours**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Critical Reading and Expository Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1020</td>
<td>Critical Thinking and Argumentation</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1530</td>
<td>Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2010</td>
<td>The United States to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2020</td>
<td>The United States Since 1877</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 2010/11</td>
<td>General Physics I Lecture/Lab</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1720</td>
<td>Pre-Calculus</td>
<td>3</td>
</tr>
<tr>
<td>DIGM 1510</td>
<td>Student in University*</td>
<td>2</td>
</tr>
<tr>
<td>ENTC 1510</td>
<td>Technology and Society</td>
<td>3</td>
</tr>
<tr>
<td>ENTC 3020</td>
<td>Technology and Society</td>
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<tr>
<td>ENTC 3030</td>
<td>Technical Communication</td>
<td>3</td>
</tr>
<tr>
<td>DIGM 4930</td>
<td>Portfolio Development for DIGM</td>
<td>4</td>
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</table>

**Digital Media Core Requirements .................. 38 Credit Hours**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIMG 1100</td>
<td>Visual Thinking</td>
<td>4</td>
</tr>
<tr>
<td>ARTA 1110</td>
<td>2-D Design</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 1204</td>
<td>Color Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENTC 1510</td>
<td>Student in University*</td>
<td>2</td>
</tr>
<tr>
<td>MATH 1720</td>
<td>Pre-Calculus</td>
<td>3</td>
</tr>
<tr>
<td>DIGM 1650</td>
<td>Raster-Based Imaging</td>
<td>4</td>
</tr>
<tr>
<td>DIGM 3000</td>
<td>Principles of Interaction</td>
<td>4</td>
</tr>
<tr>
<td>DIGM 3010</td>
<td>Principles of Visualization</td>
<td>4</td>
</tr>
<tr>
<td>ENTC 3030</td>
<td>Technical Communication</td>
<td>3</td>
</tr>
<tr>
<td>DIMG 4930</td>
<td>Portfolio Development for DIGM</td>
<td>4</td>
</tr>
</tbody>
</table>

**Digital Animation Concentration**

**Requirements ........................................... 17 Credit Hours**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTA 1201</td>
<td>Drawing Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 2120</td>
<td>Basic Figure Drawing</td>
<td>3</td>
</tr>
<tr>
<td>DIGM 2870</td>
<td>Animation Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>DIGM 3110</td>
<td>3-D Model Design</td>
<td>4</td>
</tr>
<tr>
<td>THEA 2510</td>
<td>Acting I</td>
<td>3</td>
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</tbody>
</table>

**Digital Animation Concentration**

**Guided Electives ..................................... 24 Credit Hours**

Select a minimum of 12 hours from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIMG 2821</td>
<td>Desktop Publishing</td>
<td>4</td>
</tr>
<tr>
<td>DIMG 2900</td>
<td>Motion Tools I: Editing</td>
<td>4</td>
</tr>
<tr>
<td>DIMG 3120</td>
<td>3-D Lighting &amp; Rendering</td>
<td>4</td>
</tr>
<tr>
<td>DIMG 3130</td>
<td>3-D Animation</td>
<td>4</td>
</tr>
<tr>
<td>DIMG 3200</td>
<td>Web Design</td>
<td>4</td>
</tr>
<tr>
<td>DIMG 3300</td>
<td>Product Design</td>
<td>4</td>
</tr>
<tr>
<td>DIMG 3400</td>
<td>Interaction Design</td>
<td>4</td>
</tr>
<tr>
<td>DIMG 4147</td>
<td>Fundamentals of Character Animation</td>
<td>3</td>
</tr>
<tr>
<td>DIMG 4146</td>
<td>Character Animation Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>DIMG 4400</td>
<td>Interactive Development</td>
<td>4</td>
</tr>
<tr>
<td>DIMG 4617</td>
<td>Advanced Raster-Based Imaging</td>
<td>3</td>
</tr>
<tr>
<td>DIMG 4616</td>
<td>Raster-Based Imaging Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>DIMG 4627</td>
<td>Motion Tools II: Compositing</td>
<td>3</td>
</tr>
<tr>
<td>DIMG 4626</td>
<td>Motion Tools II: Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>DIMG 4637</td>
<td>Advanced Interaction Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Guided electives are to be chosen with the guidance of an advisor, and with the permission of the department, according to the students' desired area of specialization. Lists of additional recommended guided electives are available from the department.

**Digital Interaction Concentration**

**Requirements .......................................... 11 Credit Hours**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ARTA 3401</td>
<td>Topography</td>
<td>3</td>
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<tr>
<td>CSCI 1800</td>
<td>Visual Programming I</td>
<td>4</td>
</tr>
<tr>
<td>DIMG 2120</td>
<td>Desktop Publishing</td>
<td>4</td>
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</tbody>
</table>

**Digital Interaction Concentration**

**Guided Electives ..................................... 30 Credit Hours**

Select a minimum of 16 hours from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>DIMG 2870</td>
<td>Animation Fundamentals</td>
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</tr>
<tr>
<td>DIMG 2900</td>
<td>Motion Tools I: Editing</td>
<td>4</td>
</tr>
<tr>
<td>DIMG 3110</td>
<td>3-D Model Design</td>
<td>4</td>
</tr>
<tr>
<td>DIMG 3120</td>
<td>3-D Lighting &amp; Rendering</td>
<td>4</td>
</tr>
<tr>
<td>DIMG 3130</td>
<td>3-D Animation</td>
<td>4</td>
</tr>
<tr>
<td>DIMG 3200</td>
<td>Web Design</td>
<td>4</td>
</tr>
<tr>
<td>DIMG 3300</td>
<td>Product Design</td>
<td>4</td>
</tr>
<tr>
<td>DIMG 3400</td>
<td>Interaction Design</td>
<td>4</td>
</tr>
<tr>
<td>DIMG 4147</td>
<td>Fundamentals of Character Animation</td>
<td>3</td>
</tr>
<tr>
<td>DIMG 4146</td>
<td>Character Animation Laboratory</td>
<td>1</td>
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<tr>
<td>DIMG 4400</td>
<td>Interactive Development</td>
<td>4</td>
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<tr>
<td>DIMG 4517</td>
<td>Advanced Raster-Based Imaging</td>
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</tr>
<tr>
<td>DIMG 4616</td>
<td>Raster-Based Imaging Laboratory</td>
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<tr>
<td>DIMG 4627</td>
<td>Motion Tools II: Compositing</td>
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</tr>
<tr>
<td>DIMG 4626</td>
<td>Motion Tools II: Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>DIMG 4637</td>
<td>Advanced Interaction Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Guided electives are to be chosen with the guidance of an advisor, and with the permission of the department, according to the students' desired area of specialization. Lists of additional recommended guided electives are available from the department.

**Total Hours Required for Degree................. 120 Credit Hours**
Digital Visualization Concentration

Requirements .................................................. 11 Credit Hours
ARIA 1201 Drawing Fundamentals .......................... 3
ENTC 2170 CAD (Computer Aided Design Drafting) ...... 4
DIGM 3110 3-D Model Design .................................. 4

Digital Visualization Guided Electives ............. 30 Credit Hours
Select a minimum of 16 hours from:
DIGM 2821 Desktop Publishing .................................. 4
DIGM 2870 Animation Fundamentals .................. 4
DIGM 2900 Motion Tools I: Editing ......................... 4
DIGM 3120 3-D Lighting & Rendering .................. 4
DIGM 3130 3-D Animation .................................... 4
DIGM 3200 Web Design ..................................... 4
DIGM 3300 Product Design .................................. 4
DIGM 3400 Interaction Design ............................. 4
DIGM 4147 Fundamentals of Character Animation ...... 3
DIGM 4146 Character Animation Laboratory .......... 1
DIGM 4400 Interactive Development .................. 4
DIGM 4617 Advanced Raster-Based Imaging ........... 3
DIGM 4616 Raster-Based Imaging Laboratory .......... 1
DIGM 4627 Motion Tools II: Compositing ............ 3
DIGM 4626 Motion Tools II: Laboratory .................. 1
DIGM 4637 Advanced Interaction Design ............... 3
DIGM 4636 Advanced Interaction Laboratory .......... 1
DIGM 4647 Advanced Animation .................................. 1
DIGM 4646 Advanced Animation Laboratory ........ 1
DIGM 4657 Advanced Web Design ......................... 3
DIGM 4656 Web Design Laboratory ..................... 1
DIGM 4667 Advanced Product Design .................. 3
DIGM 4666 Product Design Laboratory .................. 1
DIGM 4817 3-D Effects Animation .......................... 3
DIGM 4816 3-D Effects Animation Laboratory ........ 1
DIGM 4827 Motion Tools III: Application .............. 3
DIGM 4826 Motion Tools III: Laboratory ............... 1
DIGM 4877 Advanced Modeling & Lighting ............ 3
DIGM 4876 Modeling & Lighting Laboratory .......... 1
DIGM 4887 Technical Direction for Animation .......... 3
DIGM 4886 Technical Direction for Animation .......... 1
DIGM 4900 Independent Study ............................. 2-6
DIGM 4957 Topics in Digital Media .......................... 2-6

Guided electives are to be chosen with the guidance of an advisor, and with the permission of the department, according to the students’ desired area of specialization. Lists of additional recommended guided electives are available from the department.

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

Suggested Course Sequence

Freshman Year

First Semester Credit Hours
ENGL 1010 Critical Reading and Expository Writing .............. 3
ENTC 1510 Student in University .................................. 2
ARIA 1110 2-D Design ........................................... 4
DIGM 1100 Visual Thinking ....................................... 4
HIST 2010 The United States to 1877 ..................... 3
Semester Total .................................................. 15

Second Semester Credit Hours
ENGL 1020 Critical Thinking and Argumentation .............. 3
MATH 1720 Precalculus ........................................... 3
ARTC 1140 Color Theory ............................................. 3
DIGM 1640 Vector-Based Imaging ................................ 16
Humanities/Fine Arts Elective .................................. 3
Semester Total .................................................. 16

Sophomore Year

First Semester Credit Hours
DIGM 1650 Raster-Based Imaging .................................. 4
HIST 2020 The United States Since 1877 ................... 3
PHYS 2010/11 General Physics Lecture/Lab .................. 4
Concentration Course ............................................. 4
Semester Total .................................................. 14

Second Semester Credit Hours
DIGM 2800 Principles of Interaction .......................... 4
DIGM 3010 Principles of Visualization .......................... 4
ENTC 3020 Technology & Society ............................. 3
Literature/Fine Arts ................................................. 3
Semester Total .................................................. 14

Senior Year

First Semester Credit Hours
Social/Behavioral Sciences ......................................... 1
DIGM Topics, Concentration Courses, or Guided Electives ........ 3
Semester Total .................................................. 15

Second Semester Credit Hours
DIGM 4600 Portfolio Development for Digital Media ........ 4
DIGM Topics, Concentration Courses, or Guided Electives ........ 3
Semester Total .................................................. 15
Total .................................................. 120

PORTFOLIO AND PROGRESS REVIEW*

Junior Year

First Semester
MATH 1530 Probability and Statistics .................. 3
Communication: Oral Communication* ................. 3
ENTC 3000 Technical Communication .................. 3
DIGM Topics, Concentration Courses, or Guided Electives ........ 6
Semester Total .................................................. 15

Second Semester
Natural Sciences ................................................. 4
Social/Behavioral Sciences ......................................... 3
DIGM Topics, Concentration Courses, or Guided Electives ........ 3
Semester Total .................................................. 15
Total .................................................. 120

Senior Year

First Semester
Social/Behavioral Sciences ......................................... 1
DIGM Topics, Concentration Courses, or Guided Electives ........ 3
Semester Total .................................................. 15

Second Semester
DIGM 4600 Portfolio Development for Digital Media ........ 4
DIGM Topics, Concentration Courses, or Guided Electives ........ 3
Semester Total .................................................. 15
Total .................................................. 120

*B After 26, but before 36, credit hours have been completed in the Digital Media Core, students must complete a portfolio and progress review.

BACHELOR OF SCIENCE IN SURVEYING AND MAPPING

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

Students in Surveying and Mapping Science pursue coursework in professional land surveying practice and may include specialty areas such as Land Boundary, Subdivision Design, Cartography, Remote Sensing, and Geographic Information Systems (GIS). Core courses include plane, geodetic, photogrammetric and boundary surveying. By taking a minimum of 64 credit hours in surveying-related courses, students are well prepared for future licensing and professional-level positions with surveying and engineering firms, government service, utility companies and related industries.

Bachelor of Science Degree (B.S.)
Surveying and Mapping Science Major (SURM)

ETSU Academic Proficiency Requirements:
Writing: Students must complete a minimum of four writing-intensive courses. At least two of these courses must be in the major field of study; at least two of the four courses must be at the 3000-4000 level.
Oral Communication: Students must complete a minimum of two oral communication-intensive courses. At least one of these courses must be in the major field of study.
Using Information Technology: Students must complete at least one using information technology-intensive course in the major field of study.
Transfer students may be subject to reduced number of intensives. See ETSU Academic Proficiency Requirements for details.

TBR General Education Requirements ............. 42 Credit Hours
ENGL 1010 Critical Reading and Expository Writing .............. 3
ENGL 1020 Critical Thinking and Argumentation .............. 3
Communication: Oral Communication* .................... 3
MATH 1910 Calculus I ................................................. 3
PHYS 2010/11 General Physics Lecture/Lab .................. 4
PHYS 2020/21 General Physics Lecture/Lab II* .............. 4
HIST 2020 The United States Since 1877 .................. 3
HIST 2020 The United States Since 1877 .................. 3
Literature/Fine Arts* ................................................. 6
ENTC 3020 Technology and Society ....................... 3
ECEN 2210 Principles of Economics .......................... 3
PSYC 1310 Introduction to Psychology .......................... 3

* See TBR General Education Core Requirements.
**PHYS 2110 and 2120 may be substituted.
Survey Core Requirements .................................. 64 Credit Hours
SURV 2550 Surveying Measurement Fundamentals .................................. 4
SURV 2560 Surveying Graphics ................................................................. 4
SURV 3510 Engineering and Construction Surveys .................................. 2
SURV 3520 Land Survey Systems .............................................................. 2
SURV 3530 Surveying Measurements & Comp Analysis .......................... 4
ENTC 3989 Co-op ................................................................................... 1
SURV 3550 Advanced Surveying Mathematics ....................................... 3
SURV 3560 Geodetic Science ................................................................. 4
SURV 4500 Senior Project ........................................................................ 2
SURV 4520 Survey Science Topics ......................................................... 3
SURV 4537 Land Boundary Location ...................................................... 4
SURV 4547 Land Subdivision and Platting ............................................... 4
SURV 4550 Automated Surveying and Mapping .................................. 3
Fnce 3130 Real Estate Law ...................................................................... 3
GEOG 3210 Cartography ......................................................................... 3
ENTC 1510 Student in University ............................................................ 2
ENTC 3030 Technical Communications ................................................ 3
GEOL 1040 Physical Geology ................................................................. 4
MATH 1920 Calculus II ........................................................................... 4
MATH 2010 Linear Algebra ..................................................................... 3

* GEOG 4217 can be substituted. ** SURV 4517 can be substituted.

Surveying Sequence Requirements ................................... 22 Credit Hours

Sequence #1: CADAstral / DESIGN SEQUENCE
GEOG 4587 Engineering Geology .......................................................... 4
GEOG 4617 Structural Geology ................................................................. 4
GEOL 4905 Independent Studies: Subsurface Hydro ................................ 4
SURV 4617 Digital Image Process ........................................................... 3
SURV 4567 Positioning with GPS ............................................................. 3
SURV 4957 Special Topics: Surface Hydrology ........................................ 4

Total ........................................................................................................ 22

Sequence #2: GEOspatial SEQUENCE
SURV 4517 Photogrammetry ................................................................. 4
GEOG 4217 Introduction to GIS ............................................................... 3
CSCI 2100 Introduction to C++ ................................................................. 3
SURV 4617 Digital Image Process ........................................................... 3
GEOG 4227 Remote Sensing ................................................................. 3
GEOG 4237 Advanced Remote Sensing ............................................... 3
GEOG 4317 Advanced GIS ................................................................... 3

Total ........................................................................................................ 22

* CSCI 1100 can be substituted.

Sequence #3: SURVEYING BUSINESS SEQUENCE
ACCT 2010 Principles of Accounting ..................................................... 3
Fnce 3220 Business Finance ................................................................. 3
Mgmt 3000 Organizational Behavior and Management .......................... 3
Mgmt 4420 Law of Business Organizations ........................................... 3
Mgmt 3310 Legal Environment of Business .......................................... 3
MKTG 3200 Principles of Marketing ....................................................... 3
Mgmt 4510 Human Resource Management .......................................... 3
ENTC 3969 Co-op ................................................................................... 1

Total ........................................................................................................ 22

Total Hours Required for Degree ..................................................... 128 Credit Hours

Transfer Students - Transfer students without a B.S. from another institution must take a minimum of 60 credits from ETSU to receive a B.S. in Surveying and Mapping Science. Transfer students with a B.S. from another institution must take a minimum of 34 credits from ETSU and meet all other requirements to receive a B.S. in Surveying and Mapping Science. Articulation agreements with several two-year institutions are available for smooth transfer to ETSU.

Students are encouraged to contact the program coordinator to discuss their individual needs.

Suggested Course Sequence

**Freshman Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1015</td>
<td>Critical Reading and Expository Writing</td>
</tr>
<tr>
<td>MATH 1910</td>
<td>Calculus I</td>
</tr>
<tr>
<td>SURV 2560</td>
<td>Survey Graphics</td>
</tr>
<tr>
<td>PSYC 1310</td>
<td>Introduction to Psychology</td>
</tr>
<tr>
<td>ENTC 1510</td>
<td>Student in University</td>
</tr>
<tr>
<td><strong>Semester Total</strong></td>
<td>16</td>
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</table>

**Second Semester**

<table>
<thead>
<tr>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1020</td>
</tr>
<tr>
<td>MATH 1920</td>
</tr>
<tr>
<td>SURV 2550</td>
</tr>
<tr>
<td>Communication: Oral Communication*</td>
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<tr>
<td>GEOL 1040</td>
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<td><strong>Semester Total</strong></td>
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**Sophomore Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SURV 3517</td>
<td>Engineering and Construction Surveys</td>
</tr>
<tr>
<td>SURV 3520</td>
<td>Land Survey Systems</td>
</tr>
<tr>
<td>Literature</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 2010/11</td>
<td>General Physics I Lecture/Lab</td>
</tr>
<tr>
<td>HIST 2010</td>
<td>The United States to 1877</td>
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**Second Semester**

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>SURV 3500</td>
</tr>
<tr>
<td>MATH 2010</td>
</tr>
<tr>
<td>PHYS 2002/21</td>
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<tr>
<td>HIST 2020</td>
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<tr>
<td>Fine Arts</td>
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**Junior Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>SURV 3500</td>
<td>Advanced Survey Math</td>
</tr>
<tr>
<td>SURV 3560</td>
<td>Geodetic Science</td>
</tr>
<tr>
<td>ECON 2210</td>
<td>Principles of Economics</td>
</tr>
<tr>
<td>ENTC 3030</td>
<td>Technical Communications</td>
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<tr>
<td>Technical Elective**</td>
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<td><strong>Semester Total</strong></td>
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**Second Semester**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>ENTC 3020</td>
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<tr>
<td>Technical Electives**</td>
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**Summer Semester**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>ENTC 3869</td>
</tr>
<tr>
<td>or SURV 3540</td>
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**Senior Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SURV 4520</td>
<td>Surveying Science Topics</td>
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<tr>
<td>SURV 4537</td>
<td>Land Boundary Location</td>
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<tr>
<td>GEOG 3210</td>
<td>Cartography</td>
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**Second Semester**

<table>
<thead>
<tr>
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<tr>
<td>SURV 4547</td>
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<td>SURV 4550</td>
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<tr>
<td>SURV 4560</td>
</tr>
<tr>
<td>Technical Elective**</td>
</tr>
<tr>
<td><strong>Semester Total</strong></td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

* PHYS 2110 and PHYS 2120 will also satisfy the Physics requirement.
** Select from one of the three previously indicated sequences.

Department of Military Science
Box 70648 Phone: (423) 439-4269

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

Major

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

Students may select military science as a minor, consisting of 25 credit 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.

Course Credit

Students interested in participating in the advanced phase may receive basic phase credit for having prior active or reserve component military service, three years of junior ROTC at the high school level, or for completion of ROTC Leaders Training Course (LTC).

ROTC SCHOLARSHIPS

Army ROTC scholarships pay annual tuition costs and a textbook allowance. Scholarship cadets also receive a tax-free subsistence allowance of $200 a month for up to 10 months each school year in which the scholarship is in effect. In addition, the university 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 or 5288

College students interested in a two- or three-year scholarship should also contact the Department of Military Science.

ROTC Basic Course

Any student may enroll without obligation in the Department of Military Science's Basic Course Classes. Those classes listed as 1000- and 2100-series classes are considered part of the Basic Course of military science. Students desiring to enter the Advanced Course of the ROTC program through the four-year program must complete all four Basic Course Classes. In certain cases, the Professor of Military Science may waive one of these class requirements.

The basic phase is designed to introduce the United States Army as an institution, the military as a profession, and to impart to all students basic leadership skills which can be used in a civilian environment as well as in the military. The basic phase includes both formal classroom instruction and field practice periods. Subject matter deals with the organization and history of the United States Army, the dynamics of leadership and management, military skills, and mountaineering.

ROTC Leaders Training Course (LTC)

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

ROTC Advanced Course

Advanced military science cadets continue their studies in leadership and tactics with the scope of instruction expanded to include subjects such as military law, battle simulations, group dynamics, organizational management, and decision making. Advanced course contract students receive from $350 to $400 per month up to a maximum of 20 months (equivalent to two academic years) and an appointment upon graduation as a Second Lieutenant. Contracted students incur a military obligation to the Active Army, the Reserve, or the National Guard. This obligation can consist of as little as three months active duty, with the remainder spent on Reserve, or National Guard status. Students who prefer Reserve or National Guard duty may be guaranteed that they will not be assigned to active duty except for the short period needed to complete a branch basic officer course (three- to six-months depending on the branch selected). Students interested in enrolling as a contract cadet must contact the Department of Military Science for specific program requirements, guarantees, benefits, and military information.

Leader Development and Assessment Course

Advanced course (LDAC) cadets are required to attend the five-week Leader Development and Assessment course at Ft. Lewis, Washington, upon completion of the junior year of military science. LDAC attendance is a prerequisite to commissioning but may be delayed until completion of the senior year with the approval of the United States Army and the Professor of Military Science at ETSU.

Course Sequence Requirements

To receive a commission in the United States Army through the military science program, a student must successfully complete 11 credit hours of courses at the basic level (1100 or 2100 courses), 16 hours at the advanced level (3100 or 4100 courses) and ROTC Advanced Camp (six semester credit hours). Equivalency credit may be given for the basic level courses for those cadets who are (1) veterans, (2) graduates of junior ROTC programs, or (3) graduates of the ROTC Leaders Training Course.

One of the following two sequences will be utilized to obtain a commission as a Second Lieutenant.

FOUR-YEAR PROGRAM COURSE SEQUENCE

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>MSCI 1210</td>
<td>Leadership / Personal Development</td>
</tr>
<tr>
<td>MSCI 1220</td>
<td>Introduction to Tactical Leadership</td>
</tr>
<tr>
<td>MSCI 2110</td>
<td>Innovative Team Leadership</td>
</tr>
<tr>
<td>MSCI 1181</td>
<td>Tactical Leadership (Lab)</td>
</tr>
<tr>
<td>MSCI 2150</td>
<td>Military Skills I</td>
</tr>
<tr>
<td>MSCI 1182</td>
<td>Practicum III</td>
</tr>
<tr>
<td>MSCI 3110</td>
<td>Adaptive Tactical Leadership</td>
</tr>
<tr>
<td>MSCI 3120</td>
<td>Leadership in a Changing Environment</td>
</tr>
<tr>
<td>MSCI 4110</td>
<td>Developing Adaptive Leaders</td>
</tr>
<tr>
<td>MSCI 4120</td>
<td>Leadership in a Complex World</td>
</tr>
<tr>
<td>MSCI 4580</td>
<td>Leadership Development and Assessment</td>
</tr>
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</table>

TWO-YEAR PROGRAM COURSE SEQUENCE

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSCI 2580</td>
<td>Leadership Training Course or equivalent</td>
</tr>
<tr>
<td>MSCI 4580</td>
<td>Leadership Development and Assessment</td>
</tr>
<tr>
<td>MSCI 4110</td>
<td>Developing Adaptive Leaders</td>
</tr>
<tr>
<td>MSCI 4120</td>
<td>Leadership in a Complex World</td>
</tr>
</tbody>
</table>

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.
The School of Continuing Studies is the academic unit responsible for the special needs of adult and nontraditional students. In addition to the Office of the Associate Vice President for Public Service and Dean of Continuing Studies, there are several centers with special programs or services.

**Division of Cross-Disciplinary Studies**

The Division of Cross-Disciplinary Studies administers the Bachelor of General Studies, Bachelor of Applied Science, Bachelor of Science in Interdisciplinary Studies, Bachelor of Science in Professional Studies, Master of Arts in Liberal Studies, and the Master of Professional Studies degrees. The Division facilitates credit classes at sites other than Johnson City, Bristol, and Kingsport, and coordinates Cohort programs. Arrangements for off-campus courses can be made by calling Cross-Disciplinary Studies at (423) 439-4223. In order to service the needs of organizations such as business/industry and school systems, courses are taught on-site at organizations when appropriate faculty are available. The courses can be existing classes, or course content can be tailored to the organization's needs within approved limits established by ETSU academic departments and faculty.

The Division offers service-learning courses. Service-learning is a form of experiential education that ties academic coursework to meaningful service. While gaining core and oral- and writing-intensive credit in the introductory course, students work with populations or environments through placements with community agencies. Students commit to thirty (30) out-of-class hours while gaining hands-on involvement, resume building experience, time management awareness, communication skills and critical thinking practice.

**Office of Professional Development**

The goal of the Office of Professional Development is to provide quality non-credit continuing education and professional development programs; conferencing, seminars, workshop services; and life-long learning opportunities designed to meet the specific needs of learners of all ages that include, but are not limited to, industry, health care, academic and professional organizations, and P-16 education. Professional Development seeks to enhance ETSU credit and academic programs whenever possible. This office also offers CEU, TNA, and APA certification to qualifying programs. Internet programs are also available.

**ETSU at Kingsport**

Kingsport – Day, evening, and weekend classes including lower division, upper division, and graduate courses are offered each term at the ETSU at Kingsport campus in Kingsport, Tenn. Undergraduate offerings meet most of the freshman and sophomore degree requirements of most ETSU programs. Graduate evening courses are available in selected academic areas. Scholarships for full- and part-time students are available. Courses are taught by full-time ETSU faculty based at the center, faculty from the main campus in Johnson City, and adjunct instructors from the community. Career counseling, academic advising, and financial aid assistance are available. A variety of intramural and other student activities are also available.

Facilities on the 100-acre site include computer registration via GoldLink Online, bookstore, library, biology and chemistry labs, computer labs, and a gymnasium/weight room.

**Office of Distance Education**

Box 70427 Phone: (423) 439-6809

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

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

**Telecourse.** Each spring and fall semester, the university offers a few professionally produced telecourses through WSJK, channel 2, and WKOP, channel 15, East Tennessee's public television stations. A limited number of telecourses are also available through video check-out. For public broadcast and video check-out, telecourses are intended for students who have past college experience, are self-motivated, and can learn in a more
independent learning environment than is required for regular courses. Although telecourses eliminate the requirement to attend weekly in-class lectures, the other regular academic requirements remain, e.g., textbooks, tests, and research papers. Students are supervised by a faculty member and attend scheduled meetings during the semester. An orientation for each course is held at the beginning of the semester. Videotapes of lessons are available in the Sherrod Library Media Center (311 Sherrod Library) for viewing from 8 a.m. - 10:30 p.m., Monday through Thursday, on Fridays from 8 a.m. - 6 p.m., on Saturdays from 10 a.m. - 6 p.m., and on Sundays from 2 p.m. - 10:30 p.m. Videotapes are also available at the ETSU at Kingsport library (423) 392-8000) and ETSU at Bristol (423) 844-6300).

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

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

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

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

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

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

**Box 70659 Phone: (423) 439-4223**

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

The B.G.S. program is most suited for the mature student, generally 21 or older, who wishes to complete an undergraduate degree while still fulfilling employment and family responsibilities. Each student follows an Individual Learning Plan (ILP). This plan is a written summary developed by the student and B.G.S. advisor that includes the ETSU general education core, previous college-level work, and elective credits to meet both graduation requirements and the students' personal or professional goals. Recognizing that learning often occurs in nonacademic settings, the School of Continuing Studies encourages its B.G.S. majors to pursue credit for college-level prior learning. Students may earn credit through such programs as the College Level Examination Program (CLEP), departmental challenge examinations, or submission of a prior learning portfolio to be evaluated by ETSU faculty. Due to the unique nature of the B.G.S. degree, students may not double major.

**Admission Requirements:**

1. A student must be admitted to the university through the Office of Admissions.
2. Once accepted, the student must apply for admission to the B.G.S. program through the School of Continuing Studies and meet these requirements.
   a. The student must be 21 or older but not have 100 or more credit hours. (Exceptions to the 100 hours completed may be appealed to the Department Chair, Division of Cross-Disciplinary Studies.)
   b. The student must complete the Cross-Disciplinary Studies application.
   c. The student must write a brief essay that includes academic goals and objectives and the reason the B.G.S. program is appropriate.
   d. The student must interview with the B.G.S. advisor. The student must show evidence of ability to do highly independent work. Students better served by traditional academic programs will be referred to those programs.

**Curriculum Requirements:**

1. **TBR General Education Requirements**... 41-42 Credit Hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>ENGL 1010</td>
<td>Critical Reading and Expository Writing</td>
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</tr>
<tr>
<td>ENGL 1020</td>
<td>Critical Thinking and Argumentation</td>
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</tr>
<tr>
<td>Communication: Oral Communication*</td>
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<td></td>
</tr>
<tr>
<td>Mathematics*</td>
<td>3-4</td>
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<tr>
<td>Natural Sciences*</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>HIST 2010</td>
<td>The United States to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2020</td>
<td>The United States Since 1877</td>
<td>3</td>
</tr>
<tr>
<td>Humanities/Fine Arts*</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Social/Behavioral Sciences*</td>
<td>6</td>
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</table>

*See the General Education Core Requirements for options.

**Additional graduation requirements:**

Proficiency intensives
2. Individual Learning Plan (ILP). The students' Individual Learning Plan, designed with the help of an academic advisor, must include the following course: BGSD 4210 Professional Field Experience (three credit hours). The ILP is prepared early in the students' program. Each students' ILP consists of prior learning and all planned new learning. Prior learning includes previous coursework, credit for CLEP and other exams, credit recommended by the American Council on Education, and prior learning portfolio credit. New learning consists of the ETSU courses the student plans on completing to meet degree requirements. B.G.S. majors are required to limit their hours from the College of Business and Technology to no more than 25 percent of the total number of hours completed for the B.G.S. degree.

3. Senior-Level Institution. A minimum of 60 credit hours must be completed at a senior-level (four-year) institution.

4. Upper Division and Residency. ’34 credits of the students’ total program must be upper division (3000/4000 levels). At least 30 credit hours of credit must be completed in residence at ETSU. Evening, off-campus courses, and credit earned through the portfolio are considered residence credit.

5. Grade Point Average. A minimum grade point average of 2.0 is required to graduate.

6. Minor. A minor is not required for B.G.S. students but students may choose to pursue a minor as it fits their goals.

7. Professional Field Experience. Satisfactory completion of the B.G.S. Professional Field Experience (BGSD 4210) is required to graduate.

8. Total Hours. 120 credit hours are required.

BGSD 4210 Professional Field Experience (3 credits) – Required of all B.G.S. students. Senior standing. The purpose is to increase the students’ knowledge in a particular personal or career-related area through a practical learning experience. This must be new learning by the student and submitted in the form of a culminating project.

The Prior Learning/Experiential Learning Portfolio

The prior learning portfolio is an option available only to B.G.S., B.A.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 credit hours. Credit earned through the prior learning portfolio is ungraded and does not affect the students’ grade point average. Portfolio credit does count as ETSU residence credit.

Additional graduation requirements:

1. TBR General Education Requirements ... 41-42 Credit Hours

2. A.A.S. degree transfer hours. Up to 60 credits from the students’ A.A.S. degree may be applied to the B.A.S. degree.

3. Gateway Courses. Gateway courses are five ETSU courses required by all B.A.S. students, including the following: ENGL 1020, MATH 1530, and HIST 2010 and/or advisor approved courses. Each course must be completed with the minimum 2.0 prior to petitioning to earn credit for the following technical specialty courses from their A.A.S. degree.

After completion of all Gateway courses as required, the B.A.S. advisor will complete a form to petition for credit for up to 30 technical specialty hours to be used in the degree program. These hours will be assigned to special categories used only for this degree. The advisor will determine how these hours may be applied to the students’ program.

4. Technical Specialty. Technical courses from A.A.S. degree that did not have direct transfer. In order to petition to earn credit for up to 30 of these hours, students must have met two conditions: (1) completion of all Gateway courses with minimum 2.0 in each course and (2) a minimum overall 2.0 GPA for all ETSU work. Direct transfer hours and technical specialty credit combined should not exceed 60 hours.

5. Professional Development Concentration. This consists of either: (1) an existing ETSU minor (Minors that require fewer than 27 hours must be complemented with approved electives to total 27 hours.) OR (2) a self-designed program. This option must include a total of 30 hours of upper-division coursework (3000/4000 level) in total degree program.

6. General Electives. Approved electives to complete 120 total hours.

7. All other graduation requirements of the university must be met. See index for listing of these requirements in front section of the catalog.

8. Total Credits. 120 credits required.
The web-based Bachelor of Science in Interdisciplinary Studies (B.S.I.S.) is part of the TBR Regents Online Degree Program. It is especially designed to meet the needs of those with limited access to higher education; typically, adult students whose work, place of residence, family obligations, or other confinements have made attendance difficult in traditional on-campus courses. The B.S.I.S. program is most suitable for adults who have completed an associate degree, or at minimum, some college credit. The program gives students the opportunity to integrate personal and professional growth through the exploration of perspectives, philosophies and experience in a variety of disciplines. Students complete two areas of concentration, which they may fulfill either by completing an ETSU minor or by completing 12 hours of related, upper-level coursework in an area appropriate to their educational or professional goals. Students may obtain the degree entirely through online courses or through a combination of traditional classroom and online courses. Students who have previously earned a four-year degree are not eligible to enroll in the B.S.I.S. program. Due to the unique nature of the B.S.I.S. degree, students may not double major.

Admission Requirements

1. Students apply to ETSU and must meet ETSU general admission requirements.
2. Upon acceptance to ETSU, students complete an admissions interview with a B.S.I.S. advisor. The interview may be completed over the telephone or through some other electronic means. The purpose of the interview is to determine whether the B.S.I.S. is the best program for the student, or if the student would be better served by another degree program.
3. Students must complete the Cross-Disciplinary Studies application.
4. The B.S.I.S. advisor recommends admission or denial to the Department Chair, Division of Cross-Disciplinary Studies.
5. The Department Chair accepts or denies admission.

Curriculum Requirements

1. TBR General Education Requirements. 41-42 Credit Hours
   ENGL 1010 Critical Reading and Expository Writing ................. 3
   ENGL 1020 Critical Thinking and Argumentation ................... 3
   Communication: Oral Communication* ................................... 3
   Mathematics* ................................................................. 3-4
   Natural Sciences* ....................................................... 8
   HIST 2010 The United States to 1877 ............................... 3
   HIST 2020 The United States Since 1877 ............................ 3
   Humanities/Fine Arts* .................................................... 9
   Social/Behavioral Sciences* .............................................. 6

* See the General Education Core Requirements for options.
* Students may choose regular ETSU general education core courses or RODP general education core courses that are currently developed.

Additional graduation requirements:
Proficiency intensives

2. Two Concentrations. The student will complete two concentrations of his/her choice. Each concentration is a minimum of 12 hours of related coursework in the same discipline. 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 students’ 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.

The web-based Bachelor of Science in Professional Studies (B.S.P.S.) is part of the TBR Regents Online Degree Program. It is especially designed to meet the needs of those with limited access to higher education; typically, adult students whose work, place of residence, family obligations, or other confinements have made attendance difficult in traditional on-campus courses. The B.S.P.S. program is most suitable for adults who have completed an associate degree, or, at minimum, some college credit. Students must complete a concentration in either information technology or organizational leadership. The information technology concentration provides students with knowledge of the management information systems field and prepares them to work in most information systems departments in business, industry, or government. The organizational leadership concentration provides students with the opportunity to learn and develop management and communication skills applicable to work in management areas. Students may obtain the degree entirely through online courses or through a combination of traditional classroom and online courses. Students who have previously earned a four-year degree are not eligible to enroll in the B.S.P.S. program. Due to the unique nature of the B.S.P.S. degree, students may not double major.

Admission Requirements

1. Students apply to ETSU and must meet ETSU general admission requirements.
2. Upon acceptance to ETSU, students complete an admissions interview with a B.S.P.S. advisor. The interview may be completed over the telephone or through some other electronic means. The purpose of the interview is to determine whether the B.S.P.S. is the best program for the student, or if the student would be better served by another degree program.
3. Students must complete the Cross-Disciplinary Studies application.
4. The B.S.P.S. advisor recommends admission or denial to the Department Chair, Division of Cross-Disciplinary Studies.
5. The Department Chair accepts or denies admission.

Curriculum Requirements

1. TBR General Education Requirements. 41-42 Credit Hours
   ENGL 1010 Critical Reading and Expository Writing ................. 3
   ENGL 1020 Critical Thinking and Argumentation ................... 3
   Communication: Oral Communication* ................................... 3
   Mathematics* ................................................................. 3-4
   Natural Sciences* ....................................................... 8
   HIST 2010 The United States to 1877 ............................... 3
   HIST 2020 The United States Since 1877 ............................ 3
   Humanities/Fine Arts* .................................................... 9
   Social/Behavioral Sciences* .............................................. 6

* See the General Education Core Requirements for options.

Additional graduation requirements:
Proficiency intensives
2. **Professional Core.** The professional core is a total of 18 hours. The student chooses one course from each of the following six areas:

- **Area One: Administration and Supervision** .......... 3 Credit Hours  
  Principles of Administration  
  Public Administration  
  Principles of Management and Organization Behavior

- **Area Two: Organizational Systems** ....................... 3 Credit Hours  
  Non-profit Organizations  
  Complex Organizations and Occupations  
  Organizational Theory and Behavior  
  Nursing Management  
  Organizational Theory and Development

- **Area Three: Teamwork and Organizational Relationships** .......... 3 Credit Hours  
  Organizational Communication  
  Small Group Communication  
  Psychology of Stress Management  
  Developing Volunteer Programs  
  Professional Development

- **Area Four: Statistical Methods** ......................... 3 Credit Hours  
  Social Statistics  
  Applied Sociology  
  Introduction to Social Research  
  Basic Statistics for Behavioral Science

- **Area Five: Written Communications** ................. 3 Credit Hours  
  Technical and Professional Writing  
  Computers, Writing, and Literature  
  Professional Communication I  
  Professional Writing  
  Software and Technical Writing  
  Technical Communication  
  Written Professional Communication

- **Area Six: International Context** .................... 3 Credit Hours  
  International Relations  
  International Communication

Latin America: The Country and Peoples  
International Law  
Sociology of Mass Communication  
International Health: Problems and Issues  
International Political Economy  
Mass Media and Cultures

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

- **Information Technology** ........................................ 24 Credit Hours  
  Intro to Management Information Systems .................. 3  
  Files/Operating Systems (Systems Analysis Methods) ....... 3  
  Database Management ........................................... 3  
  Network Design and Management ............................ 3  
  Software - Analysis and Design .............................. 3  
  Internship or Approved Coursework ......................... 6  
  Capstone .............................................................. 1-3

- **Organizational Leadership** .............................. 24 Credit Hours  
  Management of Human Resources ............................ 3  
  Sociology of Occupations .................................... 3  
  Legal Environment ............................................. 3  
  Interpersonal Communication ............................... 3  
  Psychology of Personality .................................... 3  
  Internship or Approved Coursework ......................... 6  
  Capstone .............................................................. 1-3

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

4. **Guided Electives.** The maximum total of electives is 33 hours.

5. All other graduation requirements of the university must be met. See index for listing of these requirements in front section of the catalog.

6. **Total Credit Hours.** A total of 120 credit hours are required.
Clemmer College of Education

Box 70685

Web address: 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 in Education [elementary], secondary teaching, reading, instructional media, instructional technology, and science education); Human Development and Learning (early childhood education, foundations of human development and learning, counseling, and special education); Kinesiology, Leisure and Sport Sciences (physical education, exercise science, and sport management and leisure services), and Educational Leadership and Policy Analysis (beginning administrator). There is also a concentration at the doctoral level for persons in postsecondary and private sectors who do not have teacher certification.

The ETSU child study center is operated as a part of the early childhood education program. In addition, University School, a campus school, grades K-12, is operated in association with the Clemmer College of Education.

For a listing of majors, degrees, and concentrations, see the section of Degrees and Graduation Requirements and subsection Majors, Degrees, and Concentrations.

Teacher Education

The university is approved for the offering of courses appropriate to initial teacher licensure, renewal of the Teachers Professional Certificate, and planned added endorsements. Policies of the Tennessee State Board of Education and of East Tennessee State University must be followed in completing programs leading to the university’s recommendation for teacher licensure.

Entering students who are pursuing degrees leading to teacher licensure in elementary education, early childhood education, physical education, or special education are classified as Pre-Education (PRED) until they meet the requirements for admission to teacher education (see below). These students receive advising from the Office of Student Services located in room 321 of Warf-Pickel Hall. Once students are formally admitted to Teacher Education, they declare a major in early childhood education, Interdisciplinary Studies in Education, special education, or physical education and are assigned a faculty advisor for their program.

Students who want to teach in an area usually taught in secondary schools major in the teaching content area (ex. History). Initial advising for students in secondary education is provided by personnel in the department that offers the teaching major or minor (or area concentration). Advising is available from Clemmer College of Education personnel for secondary education students who identify themselves to the Clemmer College of Education. A professional advisor is available in room 321 of Warf-Pickel Hall. All students should check with their advisors frequently to make sure they are completing the correct requirements for their particular situations.

All students planning to teach must be formally admitted to the university’s approved teacher education program as described in this section of the catalog. One prerequisite for teacher education is a satisfactory performance on a prescribed test of basic skills mandated by the Tennessee State Board of Education.

A post-baccalaureate non-degree program is available to students holding the bachelor’s degree who want to become eligible for initial classroom teacher licensure in special education. Those students must meet all requirements for admission to teacher education as well as other requirements for the bachelor’s degree for teachers. In all other license areas, the Clemmer College of Education requires the completion of an appropriate second bachelor’s or master’s degree for initial certification of individuals who hold a non-teaching baccalaureate degree. For further information consult the professional advisor of the Clemmer College of Education, 321 Warf-Pickel Hall.

Responsibilities of the Clemmer College of Education include planning, coordinating, and implementing all university teacher education programs leading to initial or advanced preparation of public school teachers or school service personnel; providing professional services as requested by schools in the service area of the university; providing or assisting in the provision of appropriate in-service and professional development activities as requested; and planning and conducting research and development studies growing out of needs identified in academic programs or in the public schools.

Title II Report Information

As required by Title II of the federal Higher Education Act, East Tennessee State University reports the results of candidate performance on state licensing examinations. This information is reported to the state in an Institutional Report that is submitted annually.

For the 2004-2005 academic year, ETSU’s “Summary Pass Rate” was 100%. This compares to a statewide summary pass rate of 97%.

The Title II report can be accessed at http://www.etsu.edu/coe/TitleII.

Non-teaching Programs

In addition to those majors and concentrations leading to teacher licensure, the College offers additional majors and concentrations that do not have a teaching focus. The Department of Human Development and Learning offers three non-teaching concentrations. These are the early childhood development (general) concentration in the early childhood development major (jointly with the Department of Family and Consumer Sciences), and the human development and learning (career) concentration in the human development and learning major. The Department of Kinesiology, Leisure and Sport Sciences offers two non-teaching concentrations. These are: a) exercise science and b) sports management and leisure services. Admission to these concentrations may take place at the time of admission to the university. Advisement is provided by faculty in the respective departments.

Center for Early Childhood Learning and Development

The Center for Early Childhood Learning and Development operates a model early childhood program for both infants and toddlers and an early learning program for children ages 3, 4, and 5. The programs are designed to include both normally developing and young children with disabilities. The center is used in preparing students to work in early childhood development and other related areas. Students may observe and participate in both center programs. For additional information call (423) 439-7555.

Pre-Teacher Education – Declaration of Intent

All ETSU students desiring to complete a teacher education or other public school licensure program (for initial licensure, add-on endorsement, or advanced study in education) must file a Declaration of Intent in the Office of Student Services, 321 Warf-Pickel Hall. The Declaration of Intent should be filed before 30 credit hours of coursework have been completed or, in the case of transfer and post-baccalaureate students, in the first semester at ETSU. Delay or failure to file the Declaration of Intent may result in incomplete advisement. Students who have not filed the Declaration of Intent will not be considered for admission to teacher education and may be ineligible to enroll in many professional education courses.
Who must file a Declaration of Intent?

- undergraduates pursuing first-time teaching licensure
- transfer students pursuing first-time teaching licensure
- post-baccalaureate students pursuing first-time teaching licensure or additional endorsements; and
- students enrolled in master's degree programs desiring to earn teacher licensure or additional public school endorsement

Admission to Teacher Education

Students admitted to Teacher Education must:

1. Make formal application to the College of Education Teacher Education Program.
2. Complete 32 credit hours of General Education courses including the following: Writing (6 hrs.); Sciences (8 hrs.); Mathematics (3 hrs.); and 15 additional hours chosen from History, Humanities and Fine Arts, and Social and Behavioral Sciences.
3. Achieve a GPA of at least 2.50 on all general education coursework attempted as reflected in the calculated grade point average, excluding Developmental Studies courses.
4. Meet standardized test requirements [either ACT composite score of at least 22; or S.A.T. combined score of at least 920 (1020 if taken after 4/1/95); or minimum Praxis I scores for Reading (174, PPST or C-PPST), for Math (173, PPST or C-PPST), and for Writing (173, PPST or C-PPST)].
5. Submit a portfolio as initiated in EDFN 2100 Orientation to the Profession of Education and EDFN 2300 Foundations for Teaching.
6. Complete a successful interview with the College of Education Admission Board.
7. Demonstrate good moral character and freedom from any condition that would impair effectiveness as a teacher.¹
8. Complete EDFN 2100 Orientation to the Profession of Education with a grade of “C” or better and EDFN 2300 Foundations for Teaching with a grade of “C” or better. (Early Childhood majors must complete FACS 2120 Foundations for Early Childhood with a grade of “C” or better.)
9. Complete CSCI 1100 Using Information Technology or pass proficiency exam.

Because of the nature of the program, the university reserves the right to change the requirements in the teacher education program at any time when it is needed to meet state licensure standards.

Following admission to teacher education, students may declare a major in early childhood education, Interdisciplinary Studies in Education, physical education (K-12 licensure), or special education.

¹ Applicants will achieve passing scores on an approved speech and hearing test and sign a notarized statement of character.

Directed Student Teaching

All requirements for unconditional admission to teacher education must have been completed before enrolling in student teaching. Prior to admission to student teaching, students shall declare the areas in which they seek recommendation for licensure. Students will be placed in their major fields as well as other areas in which recommendation for licensure is sought with the approval of the appropriate department. ETSU will not recommend initial endorsement for areas that have not been declared before directed student teaching.

Students declaring a second field must have completed at least two-thirds of this requirement, as well as lower-division cognate courses, before being eligible for directed student teaching.

Applications for admission to the directed teaching program should be submitted to the Director of Field Services, 321 Warf-Pikel Hall, during the first week of the semester preceding the semester in which placement is requested. Students will not normally be placed earlier than one full semester following official acceptance of the application. Applications will be processed according to filing date. Students who delay applying for admission to teacher education, who delay in completing requirements, or who delay in applying for student teaching should be aware that they will be considered for placement on a space-available basis only.

Applications should indicate preference for placement in the locations being used in the semester concerned. However, the university reserves the right to exercise its best judgment in final determination of student placement based on student performance, teaching situations available, the number of applicants for a specific instructional area, and personal hardships.

A minimum academic average of 2.50 overall, in professional education courses (with no grade below “C-”), and in all areas for which endorsement is sought (with no grade below “C-”) is required for admission to student teaching. Candidates who student teach beginning fall 2001 are required to meet state mandated test score requirements on the Praxis II (formerly NTE) examination no later than two weeks prior to student teaching.

Applications must be endorsed by the major department not only for academic qualifications but also for physical, moral, and emotional health qualities appropriate to the teaching profession. If a second field is sought, the applicant must also have the endorsement of that department.

Questions regarding clarification of these policies should be referred to the Director of Field Services.

Licensure

Elementary teacher education students must complete the approved sequence of courses described in the Department of Curriculum and Instruction section.

Secondary teacher education students at East Tennessee State University must complete an approved teaching major or an approved teaching concentration. If other areas of licensure are sought, the appropriate approved program must be completed.

The initial Tennessee teacher’s license will be issued only to those applicants who have completed a teacher preparation program in a Tennessee higher education institution approved by the Tennessee State Board of Education for the preparation of teachers in the area of licensure sought.

If the initial license is not obtained following completion of the approved program, requirements in effect at the time of application must be satisfied. In all cases, current state licensure requirements must be met regardless of when the student enters the program.

A person who holds a Tennessee Teachers Professional License may add teaching area endorsements by completing teacher education add-on programs after the original license has been issued. Such programs include the addition of a secondary endorsement to an elementary license or the addition of an elementary endorsement to a secondary license. A person who holds a Tennessee Teachers Professional License and wishes to add an endorsement in another teaching area should contact the licensure analyst, room 321, Warf-Pickel Hall.

Requirements are established by the Tennessee State Board of Education for renewal of any type of license 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:

East Tennessee State University
Office of Teacher Licensing
5th Floor, Gateway Plaza
710 James Robertson Parkway
Nashville, TN 37243-0377
(615) 532-4885.
Interdisciplinary Studies in Education (ISED/Elementary Education)

Teacher education students who will follow the 2006 catalog must complete the major as follows. Specific general education core courses are mandated for all students who wish to complete the Interdisciplinary Studies in Education program.

TBR General Education Requirements 41-42 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Critical Reading &amp; Expository Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1020</td>
<td>Critical Thinking &amp; Argumentation</td>
<td>3</td>
</tr>
<tr>
<td>Communication: Oral Communication*</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following:

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

Mathematics | | 3-4 |

Choose one of the following:

- MATH 1530 | Probability and Statistics | |
- MATH 1840 | Analytic Geometry & Differential Calculus | |
- MATH 1910 | Calculus I | |
- HIST 2010 | The United States to 1877 | |
- HIST 2020 | The United States Since 1877 | |

Sciences | | 8 |

Choose one course from BIOL and one course from CHEM

- BIOL 1020 | Biology for Non-Majors & Lab and | |
- CHEM 1030 | Introduction to Chemistry | |
- CHEM 1110 | Biology I Lecture and Lab | |
- CHEM 1110 | General Chemistry & Lab | |

Humanities* | | 6 |

Fine Arts | | 3 |

Choose one of the following:

- ARTA 2010 | Art History Survey I | |
- ARTA 2020 | Art History Survey II | |

Social/Behavioral Sciences | | 6 |

Choose one course from:

- ECON 1050 | Economics and Society | |
- ECON 2210 | Principles of Economics | |

And one from:

- PSCI 1110 | Political Life | |
- PSCI 1120 | Introduction to American Government | |

*See TBR General Education Core Requirements.

Professional Education 38 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDFN 2100</td>
<td>Orientation to the Prof. of Ed</td>
<td>1</td>
</tr>
<tr>
<td>EDFN 2300</td>
<td>Foundations for Teaching</td>
<td>2</td>
</tr>
<tr>
<td>EDFN 3301</td>
<td>Issues in Education</td>
<td>3</td>
</tr>
<tr>
<td>HDAL 3310</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SPED 2300</td>
<td>Exceptional Learners</td>
<td>3</td>
</tr>
<tr>
<td>MEDA 3570</td>
<td>Educational Technology</td>
<td>2</td>
</tr>
<tr>
<td>CUAI 4310</td>
<td>Integrated Teaching – Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>CUAI 4210</td>
<td>Integrated Teaching – Language Arts</td>
<td>3</td>
</tr>
<tr>
<td>CUAI 4220</td>
<td>Integrated Teaching – Social Studies</td>
<td>3</td>
</tr>
<tr>
<td>CUAI 4241</td>
<td>Performance Assessment in Clinical Settings</td>
<td>3</td>
</tr>
<tr>
<td>CUAI 4580</td>
<td>Student Teaching</td>
<td>12</td>
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</table>

Interdisciplinary Studies in Ed. Major 41 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics</td>
<td></td>
<td>6 Credit Hours</td>
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<tr>
<td>MATH 1410</td>
<td>Number Concepts &amp; Algebraic Structures</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1420</td>
<td>Logic and Problem Solving</td>
<td>3</td>
</tr>
</tbody>
</table>

(General Education Science plus the following to total 15 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>SCED 4020</td>
<td>Wildlife Conservation</td>
<td></td>
</tr>
<tr>
<td>SCED 4321</td>
<td>Exploring and Discovery in Science</td>
<td>4</td>
</tr>
</tbody>
</table>

Social Studies 6 Credit Hours

Choose:

- GEOG 1012 | Introduction to Cultural Geography | |

One course from:

- SOAA 1020 | Introduction to Sociology | |
- SOAA 1240 | Introduction to Cultural Anthropology | |
- SOAA 2020 | Social Problems | |
Please read carefully the following information:

Interdisciplinary Studies in Education Majors are required to complete the Initial Level Portfolio for presentation to the Department of Curriculum and Instruction Admission Board, an Evaluative Level Portfolio presentation, and the Student Teaching Portfolio for presentation to a panel of peers and faculty.

**Retention Criteria**

1. Review of students’ grades and personal/professional functioning will be undertaken. Coursework, fieldwork, and any other pertinent factors will be considered by the faculty of the Department of Curriculum and Instruction. Recommendations will be made for continuance in the program, continuance with specified remediations, or discontinuance.

2. During the semester prior to student teaching, each student will be evaluated. Factors to be considered will be coursework, field experiences, ethical behavior, and personal/professional concerns. The review will culminate in either approval for entry into student teaching or disapproval. A disapproval will result in a conference with the student and a description of necessary remedial steps. All remedial conditions must be removed prior to student teaching.

### Suggested Course Sequence

#### Freshman Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Critical Reading and Expository Writing</td>
</tr>
<tr>
<td>BIOL 100201</td>
<td>Biology for Non-Majors Lecture &amp; Lab II</td>
</tr>
<tr>
<td>MATH 1530</td>
<td>Probability &amp; Statistics - Non-Calculus</td>
</tr>
<tr>
<td>HIST 2010</td>
<td>The United States to 1877</td>
</tr>
<tr>
<td>EDFN 2100</td>
<td>Orientation to the Profession of Ed</td>
</tr>
<tr>
<td>Fine Arts</td>
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</table>

**Semester Total**: 17

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Credit Hours</th>
</tr>
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<tbody>
<tr>
<td>CHEM 1030</td>
<td>Introduction to Chemistry Survey</td>
</tr>
<tr>
<td>HIST 2020</td>
<td>The United States Since 1877</td>
</tr>
<tr>
<td>SPCH 1300, 2300, or 2200</td>
<td></td>
</tr>
<tr>
<td>EDFN 2300</td>
<td>Foundations for Teaching</td>
</tr>
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</table>

**Semester Total**: 15

#### Sophomore Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>HDAL 3310</td>
<td>Educational Psychology</td>
</tr>
<tr>
<td>Literature</td>
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</tr>
<tr>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td>Social/Behavioral Sciences</td>
<td></td>
</tr>
<tr>
<td>MATH 1410</td>
<td>Number Concepts &amp; Algebraic Structure</td>
</tr>
<tr>
<td>READ 3000</td>
<td>Current Issues in Literacy</td>
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**Semester Total**: 16

<table>
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<th>Second Semester</th>
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<tbody>
<tr>
<td>SPED 2300</td>
<td>Exceptional Learners</td>
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<tr>
<td>Social/Behavioral Sciences</td>
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<tr>
<td>MATH 1420</td>
<td>Logic Problems/Geom</td>
</tr>
<tr>
<td>READ 3100</td>
<td>Early Literacy</td>
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<tr>
<td>Major Social Studies</td>
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**Semester Total**: 15

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**Junior Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>READ 3000</td>
<td>Current Issues in Literacy</td>
</tr>
<tr>
<td>READ 3100</td>
<td>Early Literacy</td>
</tr>
<tr>
<td>READ 3200</td>
<td>Expanding Literacy</td>
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<tr>
<td>EDFN 3301</td>
<td>Issues in Education</td>
</tr>
<tr>
<td>Major Social Studies</td>
<td></td>
</tr>
<tr>
<td>READ 4146</td>
<td>Storytelling and Literacy</td>
</tr>
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**Semester Total**: 15

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>READ 4056</td>
<td>Materials for Children’s Literacy</td>
</tr>
<tr>
<td>MEDA 3070</td>
<td>Educational Technology</td>
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<tr>
<td>Major Elective</td>
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**Semester Total**: 15

#### Senior Year

<table>
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<tr>
<th>First Semester</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>CUAI 4580</td>
<td>Student Teaching</td>
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</table>

**Semester Total**: 12

**Total**: 120

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**Professional Education Requirements for Secondary and K-12 Students**

The professional education requirements for secondary and K-12 students are met by completing the Teaching Education minor (see Human Development and Learning) and the professional semester (CUAI 4580 - Student Teaching). Students are required to submit a professional portfolio for admission to teacher education.

**Retention Criteria**

1. Review of students’ grades and personal/professional functioning will be undertaken. Coursework, fieldwork, and any other pertinent factors will be considered by the faculty of the Department of Curriculum and Instruction. Recommendations will be made for continuance in the program, continuance with specified remediations, or discontinuance.

2. During the semester prior to student teaching, each student will be evaluated. Factors to be considered will be coursework, field experiences, ethical behavior, and personal/professional concerns. The review will culminate in either approval for entry into student teaching or disapproval. A disapproval will result in a conference with the student and a description of necessary remedial steps. All remedial conditions must be removed prior to student teaching.

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**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.

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**Educational Media and Educational Technology (MEDA)**

The Educational Media and Educational Technology program offers courses in both school library media and technology.

The Educational Media and Educational Technology program offers coursework required for school library media specialist licensure for the state of Tennessee.
## Department of Human Development and Learning
### (ECED, EDFN, HDAL, SPED)

**Box 70548**  
**Phone: (423) 439-7688**

**Chair: Dr. Patricia Robertson**  
**email: robertpe@etsu.edu**

**Phone: (423) 439-7693**

Human Development and Learning offers programs that focus on the application of development, learning, and other psychological principles in a wide variety of settings including home, school, and community. Courses in the behavioral sciences are provided for both majors and students in other academic areas. Areas of emphasis include developmental, educational and applied psychology, psychological assessment, counseling, early child development, and special education.

The Department of Human Development and Learning offers three undergraduate programs leading to the Bachelor of Science degree: early childhood development, foundations of human development and learning, and special education. The department offers individuals holding professional teaching certification an opportunity to add an endorsement in special education and early childhood. Also offered are programs leading to the master of arts and master of education degrees in early childhood, school counseling, marriage and family therapy, community agency counseling, and special education.

Students failing to demonstrate ethical and/or professional behaviors, as required by either the appropriate professional associations and/or the National Educational Association, upon review and substantiation (with due process), may be denied continuance in departmental programs. If intervention is indicated and completed, the student may petition the department for readmission.

### Early Childhood Development (ECED)

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

The Department of Human Development and Learning in the Clemmer College of Education and the Department of Family and Consumer Sciences in the College of Business and Technology offer an interdisciplinary undergraduate program leading to the Bachelor of Science degree in early childhood development. The program is designed to provide academic preparation in the growth and development of young children (0-9), their families, and environmental factors influencing their development. This major leads to licensure in PreK-3 in the state of Tennessee.

Advising: Each student will be assigned a faculty advisor when he or she enters the early childhood development program. Beyond the major requirements, the students and their advisors will determine the courses needed that are consistent with the students’ professional interests and goals.

### Early Childhood Development (PreK-Grade 3 Licensure)

This program in early childhood is designed to meet the state competencies for licensure in PreK-3. It includes courses in early childhood development, a professional education component, and a student teaching experience in both PreK-K and grades 1-3.

### TBR General Education Requirements .......... 41-42 Credit Hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Critical Reading and Expository Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1020</td>
<td>Critical Thinking and Argumentation</td>
<td>3</td>
</tr>
<tr>
<td>Commun. Oral Communication*</td>
<td></td>
<td>3</td>
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<tr>
<td>Mathematics*</td>
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<td>3-4</td>
</tr>
<tr>
<td>Natural Sciences*</td>
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* See the General Education Core Requirements.

### Professional Studies ................. 24 Credit Hours

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<tbody>
<tr>
<td>EDFN 2100</td>
<td>Orientation to Professional Education</td>
<td>1</td>
</tr>
<tr>
<td>EDFN 2300</td>
<td>Foundations for Teaching</td>
<td>2</td>
</tr>
<tr>
<td>EDFN 3301</td>
<td>Issues in Education</td>
<td>3</td>
</tr>
<tr>
<td>HDAL 2310</td>
<td>Developmental Life-Span Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SPED 2300</td>
<td>Exceptional Learners in Schools &amp; Comm.</td>
<td>3</td>
</tr>
<tr>
<td>ECED 4347</td>
<td>Technology &amp; Media in Inclusive ECED</td>
<td>3</td>
</tr>
<tr>
<td>ECED 4517</td>
<td>Family-School-Community Involvement</td>
<td>3</td>
</tr>
<tr>
<td>CUAI 4517</td>
<td>Math Methods for Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>CUAI 4547</td>
<td>Emergent Literacy</td>
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</table>

### Major in Early Childhood Development .......... 27 Credit Hours

<table>
<thead>
<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>ECED 2010</td>
<td>Healthy &amp; Safe Settings for Young Children</td>
<td>3</td>
</tr>
<tr>
<td>FACS 2110</td>
<td>Infant/Toddler/Child Development</td>
<td>3</td>
</tr>
<tr>
<td>FACS 2120</td>
<td>Foundations of Early Childhood Development</td>
<td>3</td>
</tr>
<tr>
<td>FACS 3140</td>
<td>Guiding Young Children</td>
<td>3</td>
</tr>
<tr>
<td>EDCS 3220</td>
<td>Designing Physical Environments</td>
<td>3</td>
</tr>
<tr>
<td>ECED 4101</td>
<td>Observing &amp; Assessing Young Children</td>
<td>3</td>
</tr>
<tr>
<td>EDCS 3150</td>
<td>Creative Development in Young Children</td>
<td>3</td>
</tr>
<tr>
<td>ECED 4150</td>
<td>Literacy for Young Children</td>
<td>3</td>
</tr>
<tr>
<td>ECED 4140</td>
<td>Program Development for Young Children</td>
<td>3</td>
</tr>
</tbody>
</table>

### Concentration in Early Childhood

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1410</td>
<td>Number Concepts &amp; Algebraic Structures</td>
<td>3</td>
</tr>
<tr>
<td>HDAL 3160</td>
<td>Body/Brain Based Learning</td>
<td>3</td>
</tr>
<tr>
<td>SPED 3322</td>
<td>Early Intervention for Exceptional Children</td>
<td>3</td>
</tr>
<tr>
<td>ECED 4130</td>
<td>Prof. Issues in Early Childhood Educ.</td>
<td>3</td>
</tr>
<tr>
<td>ECED 4161</td>
<td>Curriculum Development</td>
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<td>ECED 4580</td>
<td>Student Teaching in Early Childhood</td>
<td>12</td>
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<tr>
<td>Elective</td>
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</tbody>
</table>

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

### Admission

Any student who chooses to pursue early childhood licensure in PreK-3 must apply for admission to the Teacher Education Program.

### Transfer Students

Transfer students should apply for admission into the program and meet with an early childhood development advisor to plan their program. These students must meet the requirements of the university regarding transfer and program admission.

### Suggested Course Sequence

#### Freshman Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
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<tbody>
<tr>
<td>First</td>
<td>ENGL 1010</td>
<td>Critical Reading and Expository Writing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENGL 1020</td>
<td>Critical Thinking and Argumentation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 1530</td>
<td>Probability and Statistics</td>
<td>3</td>
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<tr>
<td></td>
<td>Science</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Social/Behavioral Sciences Elective</td>
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</tr>
<tr>
<td></td>
<td>Semester Total</td>
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<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>Second</td>
<td>ENGL 1020</td>
<td>Critical Thinking and Argumentation</td>
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<tr>
<td></td>
<td>Science</td>
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<td>4</td>
</tr>
<tr>
<td></td>
<td>EDFN 2100</td>
<td>Orientation to Profession of Teaching</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>FACS 2110</td>
<td>Infant/Toddler/Child Development</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>FACS 2120</td>
<td>Foundations of Early Childhood Development</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
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</tr>
<tr>
<td></td>
<td>Semester Total</td>
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</table>

#### Sophomore Year

<table>
<thead>
<tr>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>First</td>
<td>Oral Communication Elective</td>
<td>3</td>
<td></td>
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<tr>
<td></td>
<td>EDFN 2300</td>
<td>Foundations of Teaching</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HIST 2010</td>
<td>The United States to 1877</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>HDAL 2310</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Semester Total</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>
Early Childhood Development

This is an interdisciplinary degree that combines the early childhood offerings in Family and Consumer Sciences and Human Development and Learning. This major is not designed for licensure.

A minimum of 34 hours is required for this program in early childhood development plus a six-hour practicum/field experience. Students must have earned a grade of “C” or higher in all courses included in the undergraduate major in early childhood development. In addition, students need to declare a minor.

TBR General Education Requirements .......... 41-42 Credit Hours

ENGL 1010 Critical Reading and Expository Writing ................. 3
ENGL 1020 Critical Thinking and Argumentation .................. 3
Communication: Oral Communication* ................................ 3
Mathematics* ..................................................................... 3-4
Natural Sciences* .................................................................. 8
HIST 2010 The United States to 1877 .................................... 3
HIST 2020 The United States Since 1877 ................................. 3
Humanities/Fine Arts* .............................................................. 9
Social/Behavioral Sciences* ..................................................... 6

*See the General Education Core Requirements.

Major Requirements.................................................. 30 Credit Hours

ECED 3150 Creative Development of Young Children .......... 3
ECED 3220 Designing Physical Environments .................... 3
ECED 4010 Observing and Assessing Young Children .......... 3
ECED 4140 Program Development for Young Children .......... 3
ECED 4150 Literacy in Young Children .............................. 3
FACS 4537 Field Studies ..................................................... 3
FACS 4537 Administration & Mgmt. of Early Childhood .... 3
FACS 4537 Family/School/Community Involve ment ............. 3

Concentration in Early Childhood (ECEG) ............... 21 Credit Hours

ECED 3160 Body-Brain Based Learning ............................... 3
ECED 4257 Mentoring in Early Childhood ......................... 3
ECED 4347 Technology & Media in Early Childhood ........... 3
ECED 4357 Administration & Mgmt. of Early Childhood ...... 3
ECED 4517 Family/School/Community Involve ment ............. 3

Minor Requirements ............................................... 18-27 Credit Hours

Electives ................................................................. 0-10 Credit Hours

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

Suggested Semester Schedule

Freshman Year

First Semester

ECED 3150 Creative Development of Young Children .......... 3
ECED 3220 Designing Physical Environments .................... 3
HIST 2010 The United States to 1877 .................................... 3
ENGL 1010 Critical Reading and Expository Writing ................. 3
ENGL 1020 Critical Thinking and Argumentation .................. 3
Communications: Oral Communication* ................................ 3

Second Semester

FACS 4537 Field Studies ..................................................... 3
FACS 4537 Administration & Mgmt. of Early Childhood .... 3
FACS 4537 Family/School/Community Involve ment ............. 3

Sophomore Year

First Semester

ECED 4140 Program Development for Young Children .......... 3
ECED 4150 Literacy in Young Children .............................. 3
HIST 2020 The United States Since 1877 ................................. 3
ENGL 1020 Critical Thinking and Argumentation .................. 3

Second Semester

FACS 4537 Field Studies ..................................................... 3
FACS 4537 Administration & Mgmt. of Early Childhood .... 3
FACS 4537 Family/School/Community Involve ment ............. 3

Junior Year

First Semester

ECED 4150 Literacy in Young Children .............................. 3
ECED 4161 Curriculum Development for Young Children .......... 3
ECED 4010 Observing and Assessing Young Children .......... 3

Second Semester

ECED 4010 Observing and Assessing Young Children .......... 3
ECED 4150 Literacy in Young Children .............................. 3

Senior Year

First Semester

ECED 4140 Program Development for Young Children .......... 3
ECED 4150 Literacy in Young Children .............................. 3
HIST 2020 The United States Since 1877 ................................. 3
ENGL 1020 Critical Thinking and Argumentation .................. 3

Second Semester

FACS 4537 Field Studies ..................................................... 3
FACS 4537 Administration & Mgmt. of Early Childhood .... 3
FACS 4537 Family/School/Community Involve ment ............. 3

Minor: A student majoring in this Early Childhood Development non-licensure program must select a minor in another area and meet the requirements of that specific program. A minor may include, but is not limited to, the following:

Art Business
Family and Consumer Sciences* Music
Physical Education Professional Studies
Psychology Public Health
Social Work Special Education

* Students who minor in Family and Consumer Sciences cannot duplicate courses in major and minor.

Minor in Early Childhood Development .......... 18 Credit Hours

FACS 4110 Infant/Toddler/Child Development .................. 3
FACS 4120 Foundations of Early Childhood ....................... 3
HDAL 2320 Child Psychology ............................................. 3
Human Development and Learning (HDAL)

Program Coordinator: Steve Cockerham
Phone: (423) 439-4189 email: cockerha@etsu.edu

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

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

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

Admission

1. Students are not formally admitted to the program until they have completed 30 credit hours; however, interested students are encouraged to seek advising earlier. Students seeking advising or admission should see the program coordinator.

2. A broadly based determination of the applicant's potential for academic and professional success will be made by departmental faculty. Factors considered for admission will include the applicant's academic record, entrance examination scores, career goals, and communication skills. The following indicators of academic performance will be given particular attention.
   a. Scores on either the ACT or SAT will be considered in the context of the applicant's high school and college record. Students with ACT subscores of less than 19 (16 if the ACT was taken prior to 1989) or SAT subscores of less than 360 and students who have not taken the ACT or SAT may be required to complete a prescribed program of HDAL courses prior to a final decision for admission.
   b. A grade point average of 2.50 on all college-level courses completed at the time of admission is a minimum criterion.
   c. Effective communication skills are required. Students who lack acceptable communication skills but who are otherwise qualified for admission may be asked to complete certain courses or undergo other experiences in order to correct the noted deficiencies. Upon completion of the assigned remedial experiences, admission will either be granted, denied or additional work will be recommended.

3. Certain students who fail to meet minimum requirements for admission may be admitted on a probationary basis provided they have acceptable communication skills as noted above. Those students who present evidence of significant work experiences with children or adults, or those students whose admission test scores and/or grades are determined to have been diminished by cultural, linguistic, or certain educational factors may be admitted with the written understanding that they maintain a minimum grade point average of 2.50. Students who also lack acceptable communication skills must satisfy the requirements described in item 2(c), above, prior to probationary admission.

Course and Graduation Requirements

1. Two lower division prerequisites are required for entrance into certain of the major courses. The prerequisite courses include Child Psychology-HDAL 2320 or Developmental Life Span Psychology-HDAL 2310, and Elementary Statistics-PSYC 2810 or Probability and Statistics (Non-Calculus) - MATH 1530.

   The preceding required major courses and prerequisites, must be completed with a grade of “C -” or higher in order to be accepted for major credit. Otherwise they must be repeated.

2. In addition to the courses constituting the HDAL major (and their prerequisites), students majoring in HDAL are required to complete the university’s general education core, a minor or second major, and electives chosen by the student and approved by the faculty advisor. In all, students must complete 120 credit hours (see typical program of study).

   The following minors and/or second majors are suggested options:
   - Advertising
   - Occupational Health & Safety*
   - Athletic Coaching*
   - Philosophy
   - Broadcasting
   - Political Science
   - Criminal Justice
   - Public Health
   - Early Childhood Dev.
   - Psychology
   - English
   - Social Work*
   - Environmental Health*
   - Sociology
   - History
   - Special Education
   - Journalism
   - Speech
   - Management*
   - Theatre
   - Marketing*
   - Minors only*

3. A minimum grade point average of 2.50 is required for all work completed at the time of graduation.

4. Provided they have satisfied all other university, college, and departmental requirements, students may be granted the Bachelor of Science degree if:
   a. they have completed the major described in item one above;
   b. and the approved general education core and the minor or second major, and electives described in item two.

TBR General Education Requirements ........ 41-42 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Critical Reading and Expository Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1020 Critical Thinking and Argumentation</td>
<td>3</td>
</tr>
<tr>
<td>Communication: Oral Communication*</td>
<td>3</td>
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<tr>
<td>Mathematics*</td>
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<tr>
<td>Natural Sciences*</td>
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<tr>
<td>HIST 2010 The United States to 1877</td>
<td>3</td>
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<tr>
<td>HIST 2020 The United States Since 1877</td>
<td>3</td>
</tr>
<tr>
<td>Humanities/Fine Arts*</td>
<td>6</td>
</tr>
<tr>
<td>Social/Behavioral Sciences*</td>
<td>9</td>
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*See the General Education Core Requirements.

Major Requirements ........................................ 30 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PSYC 1310 Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 2030 Practical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>FACS 3110 Parent/Child/School Relations</td>
<td>3</td>
</tr>
<tr>
<td>HDAL 3310 Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 4320 Abnormal Psychology</td>
<td>3</td>
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</table>
Human Development and Learning Minor

The minor in Human Development and Learning (HDAL) consists of 18 credit hours. Required courses make up twelve (12) of the credit hours. The other six (6) must be chosen from the guided electives. Nine (9) credit hours of the total minor must be Upper Division Courses.

Minor Requirements .................................................. 18 Credit Hours

A grade of "C-" or above must be earned in all minor courses.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HDAL 2310</td>
<td>Developmental Lifespan Psychology</td>
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<td>HDAL 4011</td>
<td>Developmental Psychology II</td>
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</tr>
<tr>
<td>HDAL 4260</td>
<td>Learning in Human Development</td>
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</tr>
<tr>
<td>HDAL 4950</td>
<td>Research in Learning and Development</td>
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Guided Electives (choose two)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>HDAL 2320</td>
<td>Child Psychology</td>
<td>3</td>
</tr>
<tr>
<td>HDAL 3330</td>
<td>Adolescent Psychology</td>
<td>3</td>
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<tr>
<td>HDAL 3310</td>
<td>Educational Psychology</td>
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<td>HDAL 4010</td>
<td>Managing Child Behavior</td>
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<td>HDAL 4666</td>
<td>Cultural Influences in Development</td>
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EDUCATION MINOR

The Education Minor is required for students seeking licensure with secondary and K-12 teaching fields listed below. Completion of the minor and CUAI 4580 - Student Teaching (12 hours) completes the professional education requirements for licensure. Students should contact the College of Education Professional Advisor in 321 Warf-Pickel Hall.

Teaching Edu. Minor Requirements.............. 21-27 Credit Hours

Required courses for all students...................... 17 Credit Hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDFN 2100</td>
<td>Orientation to the Profession of Teaching</td>
<td>1</td>
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<td>EDFN 2300</td>
<td>Foundations for Teaching</td>
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<td>EDFN 3301</td>
<td>Issues in Education</td>
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<tr>
<td>HDAL 3310</td>
<td>Educational Psychology</td>
<td>3</td>
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<tr>
<td>SPED 2300</td>
<td>Exceptional Learners in Schools &amp; Comm.</td>
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<td>MEDA 3570</td>
<td>Educational Technology</td>
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<tr>
<td>READ 4437</td>
<td>Reading Instr. in Middle/Secondary School</td>
<td>3</td>
</tr>
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</table>

Additional Required Courses ..................... 4-10 Credit Hours

Students majoring in Biology, Chemistry, Physics, Geography, French, German, Spanish, English, History, Economics, Political Science, Mathematics, Speech, and Theatre require 7 Credit Hours.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CUAI 4417</td>
<td>Secondary Curriculum &amp; Methodology</td>
<td>3</td>
</tr>
<tr>
<td>CUAI 4427</td>
<td>Sec. Curr. &amp; Methodology Field Experience</td>
<td>1</td>
</tr>
<tr>
<td>SCED 4417</td>
<td>Language Arts or English</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 4417</td>
<td>Speech Communication</td>
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</table>

(as appropriate to the teaching major)

Students majoring in Psychology, Sociology, and Health require 4 Credit Hours.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CUAI 4417</td>
<td>Secondary Curriculum &amp; Methodology</td>
<td>3</td>
</tr>
<tr>
<td>CUAI 4427</td>
<td>Sec. Curr. &amp; Methodology Field Experience</td>
<td>1</td>
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</tbody>
</table>

Students majoring in Theatre require 10 Credit Hours.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CUAI 4417</td>
<td>Secondary Curriculum &amp; Methodology</td>
<td>3</td>
</tr>
<tr>
<td>CUAI 4427</td>
<td>Sec. Curr. &amp; Methodology Field Experience</td>
<td>1</td>
</tr>
<tr>
<td>SCED 4417</td>
<td>Language Arts or English</td>
<td>3</td>
</tr>
<tr>
<td>THEA 4417</td>
<td>Teaching Theatre in Grades K-12</td>
<td>3</td>
</tr>
</tbody>
</table>
Students receiving a B.S. in special education (SPED) will obtain licensure in both the Modified and Comprehensive concentrations. This licensure in the state of Tennessee enables students to teach K-12. The Modified concentration will enable students to provide direct services in resource room and inclusive classroom settings plus consultative services to teachers in regular classroom settings. The Comprehensive concentration enables students to provide direct intensive services in more restrictive settings such as a self-contained classroom or a segregated setting. Students may earn a bachelor’s degree after four years.

In addition to initial licensure at the baccalaureate level, post-baccalaureate programs are provided for adding a special education endorsement to existing education licenses. Licensure in Early Childhood special education is available at this level. This license will enable professionals to provide intervention services to children with developmental delays and their families.

Special education licensure programs in Tennessee are non-categorical covering mental retardation, learning disabilities, physical and multiple handicapped, emotionally disturbed, and gifted/talented. Students planning to teach in those states requiring categorical certification should meet with their advisor(s) to plan their programs according to the certification/licensure requirements of those states.

Special education programs require a minimum of 120 clock hours in the field prior to the student teaching experience. Mentor teachers, as well as university supervisors, will be involved in the assessment of each prospective student teacher’s overall competency in actual classroom settings. Records are maintained and skills and competencies are evaluated following each field experience. Students who have difficulties in field experiences may be required to complete additional hours in the field.

**Admission, Student Teaching, and Retention Standards**

**Admission Procedures**

Students must meet the requirements for admission to teacher education as developed by the Clemmer College of Education. Students majoring in special education, who desire admission to teacher education, must also meet the following conditions:

1. Successful completion of 32 credit hours of general education core, which includes completion of all English, Math, and Science coursework.
2. Grade point average of at least 2.50 in the above coursework.
3. Praxis I, or acceptable ACT, SAT, or PPST scores. (See standards as specified by the College of Education.)
4. Submission of a brief (2-3 pages) typewritten statement addressing reasons for choosing special education as a major field.
5. An interview with a panel, consisting of faculty from the special education program and representatives from community school districts.
6. Completion of EDFN 2100 and EDFN 2300 with a grade of C or better.

Following a review of the above by the special education faculty, the student will complete any additional coursework or remediation outlined by the SPED faculty. Admission to SPED is provisional.

**Retention Criteria**

1. Maintenance of 2.50 GPA in all coursework.
2. Special education courses with grades lower than C (2.0) must be repeated. In computing SPED grade point average (GPA) all grades received will be included.
3. Review of students’ grades and personal/professional functioning will be undertaken each semester. The SPED faculty will consider coursework, fieldwork, and any other pertinent factors. Recommendations will be made at this time for continuance in the program, continuance with specified remediations, or discontinuance.
4. During the semester before the student teaching/internship experience, each student will be evaluated. Factors to be considered will be coursework, field placement experiences, ethical behavior, and personal/professional concerns as described in the International Council for Exceptional Children code of ethics. The review will culminate in either approval for entry into the student teaching/internship in SPED, or disapproval. A disapproval will result in a conference with the student and a description of the necessary remedial steps. All remedial conditions must be removed prior to the student teaching clinical internship experience.

**Student Teaching Criteria**

Students wishing to apply for student teaching in special education must meet the following conditions:

1. Admission to Teacher Education.
2. Completion of all educational and special education methodology classes.
3. Grade point average of at least 2.50 in all coursework.
4. Grades of “C” or better in all special education coursework.

**SPECIAL EDUCATION GRADUATION REQUIREMENTS**

**TBR General Education Requirements ............... 41 Credit Hours**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1010</td>
<td>Critical Reading &amp; Expository Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1020</td>
<td>Critical Thinking &amp; Argumentation</td>
<td>3</td>
</tr>
<tr>
<td>Communication: Oral Communication*</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 1530</td>
<td>Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2010</td>
<td>The United States to 1877</td>
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</tr>
<tr>
<td>HIST 2020</td>
<td>The United States Since 1877</td>
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</tr>
<tr>
<td>Natural Sciences*</td>
<td>8</td>
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<tr>
<td>Humanities/Fine Arts</td>
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<tr>
<td>Social/Behavioral Sciences*</td>
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*See TBR General Education Core Requirements.

**Professional Education Requirements ............... 30 Credit Hours**

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<td>EDFN 2100</td>
<td>Orientation to Profession of Teaching</td>
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<td>EDFN 2300</td>
<td>Foundations for Teaching</td>
<td>2</td>
</tr>
<tr>
<td>EDFN 3301</td>
<td>Issues in Education</td>
<td>3</td>
</tr>
<tr>
<td>READ 3100</td>
<td>Foundations of Reading or</td>
<td>3</td>
</tr>
<tr>
<td>HDAL 4150</td>
<td>Literacy in Young Children</td>
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<tr>
<td>READ 4437</td>
<td>Reading for Middle &amp; Secondary Schools</td>
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<tr>
<td>HDAL 2310</td>
<td>Developmental Psychology</td>
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<tr>
<td>HDAL 3310</td>
<td>Educational Psychology</td>
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<tr>
<td>SPED 2300</td>
<td>Exceptional Learners</td>
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<tr>
<td>SPED 4850</td>
<td>Student Teaching in Special Educ.</td>
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</table>

**Additional Program Requirement**

<table>
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<th>Course Title</th>
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<tbody>
<tr>
<td>PUBH 2030</td>
<td>First Aid and Emergency Care</td>
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### Special Education Core .......................................... 24 Credit Hours

<table>
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<th>Course Title</th>
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<tbody>
<tr>
<td>SPED 3300</td>
<td>Instructional Methodology in Special Education</td>
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</tr>
<tr>
<td>SPED 3350</td>
<td>Medical Aspects in Special Education</td>
<td>3</td>
</tr>
<tr>
<td>SPED 3400</td>
<td>Behavior Management for Individuals with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>SPED 3410</td>
<td>Preclinical Experience in Behavior Management</td>
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<tr>
<td>SPED 3445</td>
<td>Assistive Technology</td>
<td>3</td>
</tr>
<tr>
<td>SPED 4477</td>
<td>Assessment in Special Education</td>
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</tr>
<tr>
<td>SPED 4487</td>
<td>Collaboration with Families, Agencies, and Schools</td>
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<tr>
<td>SPED 4700</td>
<td>Adaptations &amp; Modifications for the Inclusive Classroom</td>
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<tr>
<td>SPED 4710</td>
<td>Preclinical Experience in Special Education</td>
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### Special Education Concentration ............................... 19 Credit Hours

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<td>Integrating Functional Skills into the Curriculum</td>
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<tr>
<td>CUAI 3430</td>
<td>Methods in Teaching Elementary Mathematics</td>
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<tr>
<td>SPED 4411</td>
<td>Preclinical Experience in Management</td>
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<tr>
<td>SPED 4497</td>
<td>Curriculum in Special Education</td>
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<td>SPED 4725</td>
<td>Management Strategies for Individuals with Severe Behaviors</td>
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<td>SPED 4757</td>
<td>Curriculum-Based Assessment</td>
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<tr>
<td>SPED 4750</td>
<td>Instructional &amp; Transitional Services for Adolescents &amp; Young Adults with Disabilities</td>
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### Total Hours Required for Degree .................................. 120 Credit Hours

### Nonteaching Minor

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<td>SPED 2300</td>
<td>Foundations for Teaching</td>
<td>2</td>
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<tr>
<td>PUBH 2300</td>
<td>First Aid and Emergency Care</td>
<td>3</td>
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<tr>
<td>Humanities</td>
<td>Literacy</td>
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### Freshman Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>First Semester</td>
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</tr>
<tr>
<td>MATH 1530</td>
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<tr>
<td>ENGL 1010</td>
<td>3</td>
</tr>
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<td>HIST 2010</td>
<td>3</td>
</tr>
<tr>
<td>EDFN 2100</td>
<td>1</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
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<tr>
<td>Communication; Oral Communication</td>
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<td>Semester Total</td>
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<tr>
<td>Second Semester</td>
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</tr>
<tr>
<td>ENGL 1020</td>
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<td>HIST 2020</td>
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<td>Science</td>
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<td>Elective</td>
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<td>Humanities/Fine Arts</td>
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### Sophomore Year

<table>
<thead>
<tr>
<th>Semester</th>
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<tr>
<td>Science</td>
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### Total Semester Credits

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>CUAI 3430</td>
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<td>SPED 3350</td>
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<tr>
<td>Semester Total</td>
<td>16</td>
</tr>
</tbody>
</table>

### Department of Kinesiology, Leisure and Sport Sciences

(PES/PHED/SALM)

**Box 70654**

**Phone:** (423) 439-5259

**Chair:** Dr. Kevin L. Burke

**email:** burkek@etsu.edu

The Department of Kinesiology, Leisure and Sport Sciences offers two different baccalaureate degree programs: B.S. in Physical Education with concentrations in K-12 Teacher Education and Exercise Science and a B.S. in Sport and Leisure Management with concentrations in Sport Management and Park and Recreation Management.

The K-12 teacher licensure concentration prepares students as professional physical educators in grades K-12. The Exercise Science concentration prepares students to work in fitness management, wellness programs, and exercise prescription/rehabilitation. The Sport Management concentration prepares students to work as leaders in the sport industry.

The Park and Recreation Management concentration prepares students for leadership roles in the leisure service industry including community, commercial, and natural resource management settings.

The Kinesiology, Leisure and Sport Sciences department also offers minors in Physical Education, Exercise Science, Park and Recreation, Sport Management, and Coaching. The Park and Recreation minor has been designed along a broad spectrum in order to allow students completing this minor to either begin work in a recreational capacity or to pursue other educational advancement on a graduate program level.

The Coaching minor has been designed to enable students to develop competencies necessary to coach in public or private schools or recreational settings. Emphasis is placed on psychology and physiology of sport, care and prevention of athletic injury, and advanced skill in coaching.

The Sport Management minor has been designed to enable students to develop basic competencies in sport management. This minor, in combination with an appropriate major, will allow students to seek employment in the sport industry as entry-level employees or pursue other educational advancement at the graduate level.

The Physical Education minor at East Tennessee State University is offered for students who are interested in physical education but who do not want to major in teacher certification in physical education. This minor is designed to help students acquire skills and knowledge to assist in preparation for entering the Master of Arts in Teaching program and for those who plan to work with children outside the school setting. Students in the minor take 18 hours from the following courses. ETSU does not confer teacher certification for this minor.
East Tennessee State University

The Exercise Science minor is an introduction to exercise, fitness, and wellness. This minor is suggested for the student whose major is in a physical science, health, or medical related concentration, but is a viable option for all eligible students. The primary emphasis is on the effects of exercise on various body systems. Flexibility in the Physical Education minor allows students to customize an 18-semester hour program in consultation with the program coordinator. The minor does not lead to teacher licensure.

Bachelor of Science Degree (B.S.) in Physical Education

Concentrations: Physical Education (K - 12)

Exercise Science

TBR General Education Requirements ........ 41-42 Credit Hours

** See Concentrations for Specific Science Courses.

<table>
<thead>
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<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>EDFN 3301</td>
<td>Orientation to Education</td>
<td>1</td>
</tr>
<tr>
<td>EDFN 2300</td>
<td>Foundation of Education</td>
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</tr>
<tr>
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<td>Issues in Education</td>
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<tr>
<td>HDAL 3310</td>
<td>Educational Psychology</td>
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<tr>
<td>MEDA 3570</td>
<td>Educational Technology</td>
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<tr>
<td>PEXS 3005</td>
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</tr>
<tr>
<td>PEXS 4007</td>
<td>Elementary Physical Education</td>
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</tr>
<tr>
<td>PEXS 4250</td>
<td>Atypical Populations</td>
<td>3</td>
</tr>
<tr>
<td>PEXS 4717</td>
<td>Secondary Wellness Education</td>
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<tr>
<td>CUAI 4580</td>
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<tr>
<td>Electives</td>
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Total Hours Required for Degree ........................................ 120

Suggested Course Sequence

Freshman Year

First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>EDFN 3301</td>
<td>Orientation to Education</td>
<td>1</td>
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<tr>
<td>EDFN 2300</td>
<td>Foundation of Education</td>
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<tr>
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<td>PEXS 4250</td>
<td>Atypical Populations</td>
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<tr>
<td>CUAI 4580</td>
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Senior Year

Second Semester

<table>
<thead>
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<th>Course Title</th>
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<tbody>
<tr>
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<tr>
<td>EDFN 2300</td>
<td>Foundation of Education</td>
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<tr>
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<td>Issues in Education</td>
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<td>PEXS 3005</td>
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Junior Year

Second Semester

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<td>HDAL 3310</td>
<td>Educational Psychology</td>
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<td>Educational Technology</td>
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<td>PEXS 3005</td>
<td>Instructional Delivery Techniques</td>
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<td>PEXS 4250</td>
<td>Atypical Populations</td>
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<td>PEXS 4717</td>
<td>Secondary Wellness Education</td>
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<tr>
<td>CUAI 4580</td>
<td>Student Teaching</td>
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Senior Year

First Semester

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>EDFN 3301</td>
<td>Issues in Education</td>
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<tr>
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<td>Educational Psychology</td>
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<td>HDAL 3310</td>
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Total Hours Required for Degree ........................................ 120
EXERCISE SCIENCE CONCENTRATION

The Exercise Science concentration is a multidisciplinary approach to exercise, fitness, and wellness. The primary emphasis is on the effects of exercise on various body systems. Support studies from psychology, health education, and applied human sciences provide a knowledge base in the psychological aspects of health and behavior, generally oriented toward lifestyle maintenance and health promotion/risk reduction.

TBR General Education Requirements ............... 41 Credit Hours

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*See General Education Core Requirements.

Physical Education Core ........................................ 20 Credits Hours

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Exercise Science Concentration ......................... 47 Credits Hours

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<td>Metabolic Aspects of Exer. &amp; Disease</td>
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Guided Electives .................................................. 9 Credits Hours

Electives ...................................................................... 6 Credits Hours

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

Suggested Four-Year Sequence for Exercise Science Concentration

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Senior Year

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Total Credits Hours: 120

Bachelor of Science Degree (B.S.) in Sport and Leisure Management

Concentrations: Sport Management

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<td>Communication: Oral Communication</td>
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*See General Education Core Requirements.

**See Concentrations for Specific Science Courses.

SPORT MANAGEMENT CONCENTRATION

The sport management concentration provides instruction and training in planning, organization, and leadership as they relate to the field of sport management. Students are prepared to work in a consumer-driven constituent-based profession. Clinical experience is a significant part of this program of study.

General Education Core (see above) .............. 41 Credit Hours

Major Core .................................................. 32 Credit Hours

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### Sport Management Concentration

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<td>Marketing Strategies &amp; Public Relations in Sport Management</td>
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<td>Issues &amp; Trends in Sport Management</td>
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<td>Fund-Raising in Sports</td>
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**Business Guided Electives**

Select from the following:
- MGMT 4010 Advanced Organizational Behavior
- MGMT 4510 Human Resources Management
- MGMT 3200 Organizational Communication
- MGMT 4100 Decision Making
- MGMT 3310 Legal Environment of Business
- MGMT 4600 Personnel Law
- MKTG 3250 Marketing Communications
- PUBR 2700 Introduction to Public Relations
- MGMT 3200 Principles of Marketing
- MGMT 3320 Management Social Responsibility

**Guided Electives**

- Electives

**Total Hours Required for Degree**

- 120 Credit Hours

### Park and Recreation Management Concentration

**General Education Core Requirements**

- 41 Credit Hours

**Major Core**

Choose ONE of the following TRACKS

- 9 Credit Hours

**Recreation Administration**

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**Outdoor Leadership**

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**Guided Electives**

- Electives

**Total Hours Required for Degree**

- 120 Credit Hours

### Suggested Semester Schedule

**Freshman Year**

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**Sophomore Year**

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**Junior Year**

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**Senior Year**

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<tr>
<td>SALM 4225</td>
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<table>
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<td>SALM 4250</td>
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</table>

**MINORS**

**Park and Recreation Management Minor**

- 18 Credit Hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>SALM 3100</td>
<td>Introduction to Leisure Services</td>
<td>3</td>
</tr>
<tr>
<td>SALM 3105</td>
<td>Programming &amp; Leadership in Leisure Services</td>
<td>3</td>
</tr>
<tr>
<td>SALM 3110</td>
<td>Cultural and Natural Resources</td>
<td>3</td>
</tr>
<tr>
<td>SALM 3117</td>
<td>Recreation for Special Pop.</td>
<td>3</td>
</tr>
<tr>
<td>SALM 3120</td>
<td>Outdoor Recreation Skills</td>
<td>3</td>
</tr>
<tr>
<td>SALM 3130</td>
<td>Natural Resource Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**Students selecting the leisure services minor should contact the department coordinator.**
Sport Management Minor ....................................  18 Credit Hours

  SALM 3200 Introduction to Sport Management .......... 3
  SALM 3220 Facility and Event Management .............. 3
  SALM 3225 Public Relations and Marketing .............. 3
  SALM 4205 Issues and Trends in Sport Management ..... 3
  SALM 4225 Management of Sport and Leisure Activities 3
  SALM 4230 Fund-Raising in Sports .......................... 3

Coaching Minor .............................................  18 Credit Hours

  PEXS 2955 Care & Prevention of Athletic Injuries ....... 3
  PEXS 3510 Foundations of Physical Education and Sport . 3
  PEXS 3665 Sports Nutrition .................................. 3
  PEXS 4600 Athletic Coaching Practicum .................... 3
  SALM 4210 Legal Issues in Sport and Leisure Activities 3

Electives (3 hours from the following):

  PEXS 3095 Sport Skills I .................................. 3
  PEXS 4001 Sport Skills II .................................. 3
  SALM 4215 Social Psychology of Sport and Leisure .... 3
  SALM 4225 Management of Sport and Leisure Activities 3

Physical Education Minor .................................  18 Credit Hours

  PEXS 3005 Instructional Delivery Techniques for PE .... 3

PESX 3510 Foundations of Physical Education & Sport .... 3
PESX 3032 Psychomotor Development in Children .......... 3
PESX 3080 Teaching Aerobic Conditioning .................. 3
PESX 3085 Teaching Rhythms and Gymnastics ............... 3
PESX 4060 Measurement and Evaluation in PE .............. 3

Exercise Science Minor ..................................  18 Credit Hours

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

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

Graduate Study – The Department of Kinesiology, Leisure and Sport Sciences offers a Master of Arts degree with concentrations in K-12 Teacher Education, Exercise Physiology and Performance, and Sport Management. Additional information on the Master of Arts degree is available in the Graduate Catalog.
The mission of the College of Nursing at East Tennessee State University is to facilitate the health of the community through excellence in nursing education, leadership, scholarship, and innovative practice. The college provides undergraduate and graduate programs. The Bachelor of Science in Nursing Degree program includes curricula designed for four-year traditional students and second-degree students in an accelerated track. In addition, programs of advanced placement are available to eligible diploma or associate degree prepared licensed registered nurses and to eligible licensed practical nurses interested in pursuing a Bachelor of Science in Nursing degree. (Information on the master's and doctoral degree programs is found in the Graduate Catalog.)

The program is approved by the Tennessee Board of Nursing and accredited by the 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 is also accredited by the American Association of Colleges of Nursing's Commission Collegiate Nursing Education (CCNE). The CCNE is an additional resource for information (1 Dupont Circle, Suite 530, Washington, DC 20036, 1-202-887-6791.) The College of Nursing is affiliated with the National Student Nurses' Association. Membership in the Epsilon Sigma Chapter of Sigma Theta Tau, the International Nursing Honor Society, is available to eligible candidates.

**Bachelor of Science in Nursing**

Accredited by: 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 focus on the community. A broad foundation in science and liberal arts enables the professional nurse to enter into the collaborative health care process in a variety of settings.

The Bachelor of Science in Nursing degree is the foundation for professional nursing practice. The professional nurse practices in collaboration with other health care providers and is responsible for coordinating and practicing comprehensive nursing care for individuals, families, groups, and communities, and assuming management and leadership positions in nursing practice.

A course of study that meets the degree requirements and the university’s General Education Program Requirements will be planned with the student through regular advising sessions available each semester.

Students who complete the baccalaureate degree program, and are not already licensed registered nurses, will write the National Council Licensure Examination for Registered Nurses (NCLEX-RN). Graduates of the nursing program who have been convicted of a violation of the law other than a minor traffic violation (i.e., misdemeanor and/or felony) may be denied a license to practice as a registered nurse by the Tennessee Board of Nursing. Questions about eligibility for licensure should be directed to the Tennessee Board of Nursing (1-888-310-4650).

**Admission Requirements**

Admittance to the university as a pre-nursing major does not assure admission to the major. Because limited numbers of students can be admitted to the nursing major, students must make a separate application to the College of Nursing. Applications for admission to the B.S.N. major and other information can be obtained through the College of Nursing Office of Student Services, Room 230, Roy S. Nick's Hall, (423) 439-4578 or 1-888-37NURSE, by e-mail: admitnur@etsu.edu or online at: www.etsu.edu/etsucon/undergraduate.htm.

The College of Nursing admits students to the four-year B.S.N. major twice a year. Application deadlines are February 1 (fall) and October 1 (spring). The priority deadline for application to the accelerated B.S.N. track for second-degree students, which begins during the summer term, is December 1. The priority deadline for application to the B.S.N. program for R.N. students is June 1. Applications will be considered until each class is filled.

To be considered for admission to the four-year baccalaureate nursing major, the applicant must have a minimum cumulative grade point average of 2.6 GPA, on a 4.0 scale, on all college-level work as computed by East Tennessee State University. The actual GPA for admission may be higher, depending on the applicant pool. Developmental studies/remedial coursework are not included in the calculation of the cumulative grade point average for College of Nursing admission purposes.

The four-year B.S.N. applicant must have completed, or have in progress, all of the following courses, or their equivalents: ENGL 1010, ENGL 1020, and Speech; 12 credit hours that will satisfy course requirements under Humanities and Fine Arts and Social and Behavioral Sciences; HSCI 2230/31; HIST 2010, HIST 2020, MATH 1530; approved literature course; HSCI 2010/11; and HSCI 2020/21. Additionally, the applicant must have earned a minimum grade of “C” (2.0) in each of the required health science courses. No more than two (2) health science courses may be repeated, and no more than one health science course may be repeated more than once in order to achieve a minimum grade of “C” (2.0).

**Selection Process**

After the deadline for application, eligible applicants will be rank-ordered within their respective tracks by cumulative college-level grade point average. Class size is limited. Should there be more eligible applicants than there are spaces available, a position in the class will be offered to the top-ranked students in the applicant pool.

Eligible students who cannot be accommodated will be notified in writing and may reapply during the next application period. No waiting list is maintained for admission.

**Maintenance and Progression**

A final verification of eligibility will be made once semester grades become available. Students who, at the end of the semester of acceptance are no longer eligible, will not be permitted to maintain their admission to the nursing major and must reapply.
Students admitted to the nursing major must earn a minimum grade of “C” (2.0) in each required theory and/or clinical nursing course. Grades of “C-”, “D+”, “D”, and “F” indicate that the course content has not been mastered and are considered nursing failures. Students who earn a grade less than “C” (2.0) in any two required nursing courses (classroom or clinical practicum) will be academically dismissed from the College of Nursing. This policy applies even if one of the failed courses has been repeated previously with a grade of “C” (2.0) or higher. Students who earn a grade of “F” in any one clinical course will be academically dismissed from the College of Nursing. Students who earn a grade of less than “C” (2.0) in a required nursing course and wish to repeat the course and progress must file an appeal with the College of Nursing Student Affairs Committee. For additional information, contact the college’s Office of Academic Programs and Student Services.

If a student drops any of the following courses – ALNU 3020, FCNU 3040, FCNU 3050, ALNU 4000, ALNU 4020, or PMNU 4060 – the student must also withdraw from the corresponding clinical course (ALNU 3021, FCNU 3051, ALNU 4021, PMNU 4061, or PMNU 4062).

Fully admitted students who continue to progress successfully in the curriculum on a full-time basis can expect to complete degree requirements in five semesters/terms. Students may complete the program on a part-time basis but are strongly advised to meet with a nursing advisor to develop an individualized plan for part-time study.

Students will obtain a copy of the written policies and clinical course requirements of the College of Nursing, including the substance abuse policy, clinical course requirements, and information on Core Performance Standards from the college’s Office of Student Services. Students must sign forms indicating they have received the College of Nursing policies and agree to abide by them.

In partial fulfillment of the requirements of designated B.S.N. courses, students take three standardized assessment exams designed to prepare them for professional practice and the National Council Licensure Examination for the Registered Nurse (NCLEX-RN). Four-year and accelerated second-degree B.S.N. students take an Entrance Assessment, used as a diagnostic tool, two weeks from the time of their letter of acceptance to the major (or prior to the first day of class for late admits). Students with reading comprehension or cumulative scores below 80 percent are required to add FCNU 3300, Promoting Academic Success in Nursing (1 credit) to their schedule. This course supports and strengthens students’ study and test-taking skills. A Mid-Curricular Exam, the second standardized assessment in the curriculum, must be passed as a requirement of a designated nursing course in the second semester of the junior year. In the last semester of their academic program, all four-year and accelerated second-degree B.S.N. undergraduate students must pass a comprehensive Exit Exam as a requirement of a designated nursing course in the second semester of the senior year. Passing of Mid-Curricular and Exit Exams is required to pass the associated nursing course. Each exam will cost approximately $30.00. Personnel in the Testing Center, as well as designated faculty, assist students in test preparation, interpretation of test results, identification of areas of academic deficiency, selection of learning resources and development of study plans to meet specific learning needs. More information on schedules for each exam, payment procedures, review sessions, and policies for re-examination are provided within the designated courses.

After admission to the major and before beginning any clinical practice courses, students must furnish evidence of having met clinical course requirements, including documentation of good health and freedom from communicable diseases, compliance with substance abuse policy, CPR certification, professional liability insurance coverage, knowledge of universal precautions, HIPAA and other policies in the College of Nursing Handbook. Additional information may be required. Any student enrolled in a College of Nursing course or program may be asked to present evidence of physical or mental health at any time during the nursing program and program continuance may be contingent upon this evidence.

Many sites are used for 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.

Students entering ETSU as pre-nursing in 2005-2006 will follow the curriculum listed below. Students enrolled in the nursing major prior to 2003-2004 will follow transition plans developed by the College of Nursing to ensure timely completion of the degree.

**TBR General Education Requirements ..................... 41 Credit Hours**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Critical Reading &amp; Expository Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1020 Critical Thinking and Argumentation</td>
<td>3</td>
</tr>
<tr>
<td>Communication: Oral Communication*</td>
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</tr>
<tr>
<td>MATH 1530 Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 2010/11 Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 2020/21 Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>HIST 2010 The United States to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2020 The United States Since 1877</td>
<td>3</td>
</tr>
<tr>
<td>Humanities/Fine Arts*</td>
<td>9</td>
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<tr>
<td>Social/Behavioral Sciences*</td>
<td>6</td>
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* See the General Education Core Requirements.

**Additional Nursing Requirements........................ 8 Credit Hours**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>HSCI 2230 Introduction to Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 3020 Human Physiology</td>
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**Nursing Core ......................................................... 71 Credit Hours**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ALNU 3010 Pharmacology for Nursing</td>
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</tr>
<tr>
<td>ALNU 3016 Pathophysiology</td>
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<td>ALNU 3020 Foundation of Nursing Skills</td>
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<td>ALNU 3021 Adult and Family Care I</td>
<td>4</td>
</tr>
<tr>
<td>ALNU 4000 Care of Middle-Aged Adults</td>
<td>3</td>
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<tr>
<td>ALNU 4020 Care of Older Adults</td>
<td>3</td>
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<td>ALNU 4021 Adult Care and Family Care III</td>
<td>6</td>
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<tr>
<td>FCNU 2010 Care of Communities I</td>
<td>2</td>
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<tr>
<td>FCNU 2030 Health Assessment</td>
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<td>FCNU 3040 Care of Infants and Children</td>
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<td>FCNU 3050 Care of Adolescents and Young Adults</td>
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<td>FCNU 3051 Adult and Family Care II</td>
<td>9</td>
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<tr>
<td>FCNU 4040 Care of Communities II</td>
<td>3</td>
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<tr>
<td>PMNU 2020 Introduction to Professional Nursing</td>
<td>3</td>
</tr>
<tr>
<td>PMNU 2310 Communication for Health Professionals</td>
<td>2</td>
</tr>
<tr>
<td>PMNU 3070 Care of Persons with Behavioral Disorders</td>
<td>2</td>
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<tr>
<td>PMNU 4030 Nursing Theory and Research</td>
<td>3</td>
</tr>
<tr>
<td>PMNU 4060 Transition to Professional Practice</td>
<td>3</td>
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<tr>
<td>PMNU 4061 Senior Practicum</td>
<td>8</td>
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<tr>
<td>PMNU 4070 Community Behavioral Health Seminar</td>
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</table>

**Total Hours Required for Degree........................ 120 Credit Hours**
### Suggested Course Sequence for the Four-Year Bachelor of Science in Nursing Degree Program

#### Freshman Year *

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ENGL 1010 Critical Reading and Expository Writing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1530 Probability and Statistics **</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 2019/11 Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>HIST 2010 The United States to 1877</td>
<td>3</td>
</tr>
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<td>CSCI Proficiency</td>
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<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ENGL 1030 Critical Thinking and Argumentation</td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 2020/21 Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>HIST 2020 The United States Since 1877</td>
<td>3</td>
</tr>
<tr>
<td>Humanities/Fine Arts</td>
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<td><strong>Semester Total</strong></td>
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#### Sophomore Year

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<tr>
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<th>Credit Hours</th>
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<tbody>
<tr>
<td>HSCI 2230/2331 Introduction to Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>Literature</td>
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</tr>
<tr>
<td>Social/Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Humanities/Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>SPCN 1200 or 2200</td>
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<td><strong>Semester Total</strong></td>
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<table>
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<tbody>
<tr>
<td>FCNU 2010 Care of Communities I</td>
<td>2</td>
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<tr>
<td>PMNU 2000 Introduction to Professional Nursing</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 2000 Human-Physiology</td>
<td>4</td>
</tr>
<tr>
<td>FCNU 2000 Health Assessment</td>
<td>4</td>
</tr>
<tr>
<td>PMNU 2110 Communication For Health Professionals</td>
<td>2</td>
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#### Junior Year

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<th>First Semester</th>
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<tr>
<td>ALNU 3010 Pharmacology for Nursing</td>
<td>3</td>
</tr>
<tr>
<td>ALNU 3016 Pharmacology: Concepts/Disease Process</td>
<td>3</td>
</tr>
<tr>
<td>ALNU 3020 Foundation of Nursing Skills</td>
<td>3</td>
</tr>
<tr>
<td>ALNU 3021 Adult and Family Care I</td>
<td>4</td>
</tr>
<tr>
<td><strong>Semester Total</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>FCNU 3040 Care of Infants and Children</td>
<td>3</td>
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<tr>
<td>FCNU 3050 Care of Adolescents and Young Adults</td>
<td>3</td>
</tr>
<tr>
<td>FCNU 3061 Adult and Family Care II</td>
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<td><strong>Semester Total</strong></td>
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#### Senior Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ALNU 4000 Care of Middle-Aged Adults</td>
<td>3</td>
</tr>
<tr>
<td>ALNU 4020 Care of Older Adults</td>
<td>3</td>
</tr>
<tr>
<td>ALNU 4030 Nursing Theory and Research</td>
<td>3</td>
</tr>
<tr>
<td>ALNU 4021 Adult Care and Family Care III</td>
<td>6</td>
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<tr>
<td><strong>Semester Total</strong></td>
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<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMNU 4000 Transition to Professional Practice</td>
<td>3</td>
</tr>
<tr>
<td>FCNU 4020 Care of Communities II</td>
<td>3</td>
</tr>
<tr>
<td>PMNU 4061 Senior Practicum</td>
<td>8</td>
</tr>
<tr>
<td>PMNU 4070 Community Behavior Health Seminar</td>
<td>1</td>
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<tr>
<td><strong>Semester Total</strong></td>
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<td><strong>Total</strong></td>
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<tr>
<td><strong>Total Nursing Credits</strong></td>
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</tr>
<tr>
<td><strong>75</strong></td>
<td></td>
</tr>
</tbody>
</table>

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* If you are identified by the East Tennessee State University’s Office of Admissions as needing developmental coursework, you will be advised by counselors in Developmental Studies and by advisors in the College of Nursing.

** MATH 1530 must be completed prior to earning 33 semester hours at ETSU.

A “C” (2.0) or higher is required in all science, health science, and nursing courses. College of Nursing policy limits the number of science and health science attempts. Consult the University Undergraduate Catalog or consult with a College of Nursing advisor.

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

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

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

To facilitate the education of registered nurses, the College of Nursing has developed an upper division sequence of courses leading to the B.S.N. degree. In addition to meeting GPA and science grade requirements, the applicant must be a graduate of an accredited program and hold active licensure as an R.N. in Tennessee or a compact state. Graduates of diploma and non-accredited programs must also have a minimum of 35 credit hours of specified courses to be eligible for the major. R.N. students are encouraged to schedule an appointment with a College of Nursing advisor to develop a specific plan of study. Weekend, online, part-time, and weekday full-time programs may be available. Classes may be available in Johnson City, Kingsport, Bristol, Morristown, Sevierville, and Cleveland, Tennessee.

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

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

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

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

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

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

Goals

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

Strategic Intent

To provide graduates of choice for the health professions.

Departments and Programs

College of Public and Allied Health

Departments located on Johnson City Campus:
- Allied Health Sciences
- Communicative Disorders
- Dental Hygiene

Department located on VA Campus, Bldg. 2:
- Physical Therapy

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

Programs in the Dept. of Allied Health Sciences–Elizabethton Campus:
- Allied Health Leadership
- Cardiopulmonary Science (Respiratory Care)
- Radiography
- Aphasia Research Clinic (Communicative Disorders)

Degrees and Majors Offered by Departments

College of Public and Allied Health

<table>
<thead>
<tr>
<th>Department</th>
<th>Major</th>
<th>Concentrations</th>
<th>Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allied Health Sciences</td>
<td>ALSC</td>
<td>AHLD, CPSC, RADG, DHYG</td>
<td>B.S.</td>
</tr>
<tr>
<td>Health Sciences</td>
<td>HSCI</td>
<td>Medical Technology, Microbiology</td>
<td>B.S.</td>
</tr>
<tr>
<td>Communicative Disorders</td>
<td>AUDI</td>
<td>Microbiology</td>
<td>M.S.</td>
</tr>
<tr>
<td>Environmental Health</td>
<td>ENVH</td>
<td>Environmental Health Practices, Occupational Health and Safety, Administrative Program, Specialist Program</td>
<td>B.S.E.H., M.S.E.H.</td>
</tr>
<tr>
<td>Physical Therapy</td>
<td>PHYT</td>
<td></td>
<td>D.P.T.</td>
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<tr>
<td>Public Health</td>
<td>PHBS</td>
<td>Community Health Services, Health Education, School Health, Community Health Administration</td>
<td>B.S.</td>
</tr>
<tr>
<td>Administration</td>
<td>PUBH</td>
<td>Public Health Administration</td>
<td>M.P.H.</td>
</tr>
</tbody>
</table>

*Offered in conjunction with Biological Science.

Admission Requirements

Admission to some programs in the College of Public and Allied Health is selective. Students seeking admission to Allied Health Science Programs must first apply and be admitted to ETSU. However, this admittance to the university does not assure acceptance into these programs. Refer to admission requirements in the ETSU Undergraduate Catalog and appropriate departmental literature regarding separate admission/progression policies.

Special Programs

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

The Department of Communicative Disorders provides clinical services to individuals having speech, language, or hearing problems. Evaluation and treatment procedures are performed by qualified students under the supervision of certified faculty for a nominal fee. All persons are eligible for the services. Appointments may be scheduled by contacting the Department of Communicative Disorders at (423) 439-4355.

Dental Hygiene Clinic

The Dental Hygiene program offers clinical services including dental inspection, dental prophylaxis (scaling and polishing the teeth), preventive treatments (application of fluorides and dental sealants), preventive periodontal treatment, and diagnostic dental X-rays. All treatment is provided by qualified dental hygiene students under the supervision of a licensed dentist and dental hygiene faculty for a nominal fee. All persons are eligible for the services. Appointments may be scheduled by contacting Dental Hygiene at (423) 439-4514.

Graduate Study Offered

The Department of Communicative Disorders offers study for the Master of Science degree with a major in communicative disorders. The student may elect audiology or speech-language pathology as the area of concentration. A clinical Doctorate in Audiology (Au.D) is also available.

• The Department of Environmental Health offers study for the Master of Science in Environmental Health degree. The student may elect the administrative concentration or the specialist concentration.
• The Department of Allied Health Sciences offers study for the Master of Science degree in Allied Health.
• The Department of Public Health offers the Master of Public Health degree with area concentrations in community health and public health administration.
• The university offers a post-baccalaureate entry-level Doctor of Physical Therapy degree (D.P.T.) program. Information on the graduate program in physical therapy is available in the ETSU Graduate Catalog and on the department web site: www.etsu.edu/ephs/phyther/index.htm.
• Graduate Certificates in gerontology and health administration are offered in conjunction with other academic units on campus. Information about these programs is available from the dean's office.
• The Department of Health Sciences offers study for the Master of Science degree in Microbiology in conjunction with Biological Sciences.

Dental Hygiene Advisement

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

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

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

Department of Allied Health Sciences (ALSC)
Box 70573 (AHLD, CPSC, & RADG) Phone: (423) 547-4800
Box 7069 (DHYG) Phone: (423) 439-4497

The Department of Allied Health Sciences is a multidisciplinary department offering courses of study leading to Bachelor of Science degrees in Allied Health and Dental Hygiene. Four concentrations are available: Allied Health Leadership, Cardiopulmonary Science, Dental Hygiene, and Radiography.

All programs offered in the department call for a high degree of individual motivation, good physical health, and manual dexterity. Instruction is individualized and performance standards are exacting.

One class per year is admitted for Cardiopulmonary Science, Dental Hygiene, and Radiography. Students are required to attend designated consecutive semesters to complete the programs. Allied Health Leadership concentration has open enrollment throughout the academic year.

The number of students admitted to each of the Allied Health career programs is limited. Admission is based on: successful completion of admission requirements; interview with an admissions committee; and space availability. The number of applicants admitted to each program is determined by several factors, including the number of available seats for clinical experiences, the predicted number of positions available in the health care industry for graduates, and enrollment limitations imposed by accreditation agencies. The limitation in class size and increasing popularity of the programs have created a highly competitive situation for applicants. Applicants will be notified in writing of the actions taken by the respective admission committees.

Students must apply and be admitted to East Tennessee State University. Students must also submit an application to the Allied Health concentration in which they are seeking admission.

Allied Health Major
Bachelor of Science Degree (B.S.)

The Bachelor of Science degree in Allied Health (B.S.) prepares students to qualify as contributing members of the Allied Health team dedicated to the conservation of life and the maintenance of health. The B.S. degree offers concentrations in Allied Health Leadership, Cardiopulmonary Science, and Radiography. The program correlated didactic and clinical instruction enabling the student to be competent in a specific concentration area. This approach will enable graduates to competently perform tasks as identified in the respective scopes of practice as autonomous health care providers. Students admitted to the program must have a strong and diverse academic background that will facilitate individual judgment, critical thinking skills, and utilization of appropriate professional decision-making skills. Students must also possess psychomotor, cognitive, and affective skills demonstrating competence, flexibility, responsibility, and sensitivity to client populations.

The Allied Health Leadership concentration offers students that have previously graduated from an Associate of Applied Science (A.A.S.) health-related program the opportunity to obtain a baccalaureate degree by using more of the A.A.S. credit hours than normally transfer to a four-year institution. The B.S. completion program is designed for health care providers in a medical field such as medical assisting, medical laboratory technology, cardiovascular technology, physical therapy assistant, and occupational therapy assistant. Students must complete 41 credit hours of general education requirements, 28 credit hours of allied health core courses, and 24 credit hours in the Allied Health Leadership concentration.
Cardiopulmonary Science and Radiography concentrations are designed for students who have completed one or two years of pre-professional college work (a minimum of 40 credit hours) that includes the prerequisite courses required by the major. The Allied Health core consists of 28 credit hours and the professional phase (composed of the concentration and clinical practice components) of the curriculum consists of 51 credit hours for both concentrations. The baccalaureate degree in Allied Health requires 120 credit hours.

Admission Requirements for B.S.

Admission to the cardiopulmonary and radiography professional curriculum is a competitive process and is entirely separate from the students’ admission to ETSU. A limited number of students are admitted annually to each concentration by an Admissions Committee. Each applicant is evaluated on the basis of academic record, personal interview, and clinical observation. Evidence of university admission, updated high school and/or college transcripts, and department application forms must be returned to the departmental office by May 1 (Cardiopulmonary Science) and April 1 (Radiography) for the applicant to be considered by the Admissions Committee.

To gain admittance to a concentration area, the student must complete all admission, health, and academic requirements. Due to the large number of applicants, limited enrollment, and accreditation standards, all candidates are evaluated through a number of different instruments.

To be considered for admission to the Bachelor of Science in Allied Health, Cardiopulmonary Science and Radiography concentrations, applicants must meet the requirements for admission to ETSU. Prior to being admitted to the professional core, applicants must complete the following requirements:

1. Maintain a college GPA of 2.50 or better on a 4.0 scale;
2. Complete prerequisite general education and other allied health core courses as required by the concentration obtaining a grade of “C” or better in each course within the first two attempts by the time of admission to the professional core;
3. Complete an additional minimum of 16 credit hours from the general educational core (not including prerequisite courses) maintaining a college GPA of 2.50 or better on a 4.0 scale;
4. Meet specific health and/or essential functions.

Students seeking admission to the Allied Health Leadership concentration must meet the following requirements:

1. College GPA of 2.50 or better on a 4.0 scale on all transferable credit;
2. Transcript(s) to include proof of graduation from an accredited health professional program;
3. Eligibility for professional licensure in discipline.

Prerequisite General Education and Allied Health: These prerequisite courses MUST be completed prior to enrolling in the Cardiopulmonary Science and Radiography concentration courses.

Note: These prerequisite courses are included in the General Education and Allied Health core.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCI 2010 Anatomy/Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 2011 Anatomy/Physiology Lab I</td>
<td>1</td>
</tr>
<tr>
<td>HSCI 2020 Anatomy/Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 2021 Anatomy/Physiology Lab II</td>
<td>1</td>
</tr>
<tr>
<td>HSCI 2230 Intro to Microbiology</td>
<td>3</td>
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<tr>
<td>HSCI 2231 Intro to Microbiology Lab</td>
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<tr>
<td>ALHE 2010 Intro to Allied Health</td>
<td>2</td>
</tr>
<tr>
<td>ALHE 2020 Patient Care &amp; Assessment</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1530 Probability &amp; Statistics Non-Calculus</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1030 Introduction to Chemistry Survey</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 1030 Introduction to Physics Survey</td>
<td>4</td>
</tr>
<tr>
<td>Radiography Concentration</td>
<td>24 Credit Hours</td>
</tr>
<tr>
<td>Cardiopulmonary Science Concentration</td>
<td>28 Credit Hours</td>
</tr>
</tbody>
</table>

*Required only for Cardiopulmonary Science Concentration

Allied Health Core

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1030 Introduction to Chemistry Survey</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 2230/31 Introduction to Microbiology Lecture/Lab</td>
<td>4</td>
</tr>
<tr>
<td>PUBH 2030 First Aid &amp; Emergency Care</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 2100 Health Care Systems</td>
<td>3</td>
</tr>
<tr>
<td>ALHE 2010 Introduction to Allied Health</td>
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</tr>
<tr>
<td>ALHE 2020 Patient Care &amp; Assessment</td>
<td>3</td>
</tr>
<tr>
<td>ALHE 4060 Research in Allied Health</td>
<td>3</td>
</tr>
<tr>
<td>ALHE 4070 Leadership in Allied Health</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 3030 Allied Health Law</td>
<td>3</td>
</tr>
</tbody>
</table>

Allied Health Leadership Concentration (AHLD)

Box 70573    Phone: (423) 547-4900

The Allied Health Leadership concentration is designed to offer students with Associate of Applied Science (A.A.S) degrees in Allied Health fields the opportunity to obtain a baccalaureate degree by using more of their A.A.S hours than normally transfer to a four-year institution. Traditionally, A.A.S graduates find that many of their allied health credit hours do not transfer to a four-year institution. This concentration allows A.A.S graduates the opportunity to receive undergraduate credit for allied health professional courses completed at a community college. The BS completion program is designed for health care providers in a medical field such as medical assisting, medical laboratory technology, cardiovascular technology, physical therapy assistant, and occupational therapy assistant. This concentration will build upon existing professional knowledge to enhance skills in communications, critical thinking, problem solving, research, and leadership theories. In addition, the concentration will equip graduates with entry-level management, group dynamics, and supervisory skills as they relate to the allied health disciplines. Successful completion of the concentration will increase the mobility of the graduate into leadership positions in their respective profession.

TBR General Education Requirements

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1010 Critical Reading &amp; Expository Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1020 Critical Thinking &amp; Argumentation</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 2010/11 Anatomy and Physiology I Lecture/Lab</td>
<td>4</td>
</tr>
<tr>
<td>HSCI 2020/11 Anatomy and Physiology II Lecture/Lab</td>
<td>4</td>
</tr>
<tr>
<td>HIST 2010 The United States to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2020 The United States Since 1877</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics*</td>
<td>3-4</td>
</tr>
<tr>
<td>Communication: Oral Communication*</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences*</td>
<td>6</td>
</tr>
<tr>
<td>Humanities and Fine Arts*</td>
<td>9</td>
</tr>
</tbody>
</table>

Allied Health Core

<table>
<thead>
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<tr>
<td>PUBH 2100 Health Care Systems</td>
<td>3</td>
</tr>
<tr>
<td>ALHE 2010 Introduction to Allied Health</td>
<td>2</td>
</tr>
<tr>
<td>ALHE 2020 Patient Care &amp; Assessment</td>
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<tr>
<td>ALHE 4060 Research in Allied Health</td>
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<tr>
<td>ALHE 4070 Leadership in Allied Health</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 3030 Allied Health Law</td>
<td>3</td>
</tr>
</tbody>
</table>
Professional Curriculum Allied Health Leadership Concentration

**Suggested Course Sequence Junior Year**

**First Semester**
- ALHE 3010 Allied Health Professionals 
  - 3 Credit Hours
- PUBH 3200 Health Services Administration 
  - 3 Credit Hours
- PUBH 4377 Health Communication 
  - 3 Credit Hours
- PUBH 4607 Gerontology and Health 
  - 3 Credit Hours
- MGMT 3000 Organizational Behavior 
  - 3 Credit Hours
**Total Semester** 
- 15 Credit Hours

**Second Semester**
- ALHE 4000 Research in Allied Health 
  - 3 Credit Hours
- Math* 
  - 3-4 Credit Hours
- Humanities/Fine Arts Elective* 
  - 3 Credit Hours
- Allied Health Core 
  - 4 Credit Hours
**Total Semester** 
- 16-17 Credit Hours

**Senior Year**

**First Semester**
- DHYG 4010 Teaching Strategies 
  - 3 Credit Hours
- ENVH 3030 Allied Health Law 
  - 3 Credit Hours
- HIST 2010 The United States to 1877 
  - 3 Credit Hours
- PUBH 4607 Gerontology and Health 
  - 3 Credit Hours
- Allied Health Core 
  - 4 Credit Hours
**Total Semester** 
- 15 Credit Hours

**Second Semester**
- ALHE 4070 Leadership in Allied Health 
  - 3 Credit Hours
- MGMT 3000 Organization Behavior 
  - 3 Credit Hours
- PUBH 4377 Health Communication 
  - 3 Credit Hours
- PUBH 3200 Health Services Planning 
  - 3 Credit Hours
**Total Semester** 
- 120 Credit Hours

Note: Additional General Education Core Credits may be required. Students are recommended to contact Department for A.A.S. transcript evaluation.

The department offers an online program for the Allied Health Leadership Concentration. Students interested in this format should contact the department.

Cardiopulmonary Science Concentration (CPSC)

Accredited by: Commission on Accreditation of Allied Health Education Programs

The Respiratory Therapist applies scientific knowledge and theory to practical clinical problems of respiratory care. Respiratory Therapist are qualified to assume primary responsibility for all respiratory care modalities, including the supervision of certified respiratory care practitioners. The Respiratory Therapist may be required to exercise considerable independent clinical judgment, under the supervision of a physician in the treatment of patients with respiratory dysfunction. The Respiratory Care Practitioners may perform the following respiratory care modalities: advanced airway management, pediatric and neonatal critical care, hemodynamic monitoring, metabolic cart studies, cardiopulmonary stress testing, and other advanced procedures.

Upon successful completion of the requirements for the Cardiopulmonary Science concentration, students are eligible to apply for admission to sit for three examinations administered by the National Board for Respiratory Care. Candidates are required to pass the Certified Respiratory Therapist entry-level examination as a prerequisite to the two advanced practitioner examinations.

Licensure requirements for respiratory care practitioners vary according to state statutes. In Tennessee, practitioners are required to pass the national examinations for certified and/or registered respiratory therapist respectively.

**TBR General Education Requirements**

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<td>4</td>
</tr>
<tr>
<td>HIST 2010 The United States to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2020 The United States Since 1877</td>
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<tr>
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**Allied Health Core**

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<td>4</td>
</tr>
<tr>
<td>PUBH 2030 First Aid &amp; Emergency Care</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 2100 Health Care Systems</td>
<td>3</td>
</tr>
<tr>
<td>ALHE 2010 Introduction to Allied Health</td>
<td>2</td>
</tr>
<tr>
<td>ALHE 2020 Patient Care &amp; Assessment</td>
<td>3</td>
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<tr>
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<td>3</td>
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</tbody>
</table>

**Professional Curriculum Cardiopulmonary Science**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CPSC 3000 Foundations of CPSC</td>
<td>4</td>
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<tr>
<td>CPSC 3010 Foundations of CPSC Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CPSC 3040 Pharmacology in CPSC</td>
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</tr>
<tr>
<td>CPSC 3100 CPSC Critical Care</td>
<td>3</td>
</tr>
<tr>
<td>CPSC 3110 CPSC Critical Care Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CPSC 3140 CPSC Disease Pathology</td>
<td>3</td>
</tr>
<tr>
<td>CPSC 3150 Clinical Education I</td>
<td>3</td>
</tr>
<tr>
<td>CPSC 3350 Clinical Education II</td>
<td>3</td>
</tr>
<tr>
<td>CPSC 3550 Patient Centered Practice</td>
<td>3</td>
</tr>
<tr>
<td>CPSC 4100 Advanced CPSC Critical Care</td>
<td>3</td>
</tr>
<tr>
<td>CPSC 4150 Clinical Education III</td>
<td>3</td>
</tr>
<tr>
<td>CPSC 4200 Neonatal &amp; Pediatric CPSC</td>
<td>3</td>
</tr>
<tr>
<td>CPSC 4350 Clinical Education IV</td>
<td>3</td>
</tr>
<tr>
<td>CPSC 4500 CPSC Diagnostic &amp; Therapeutic Care</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 4300 Introduction to Physics Survey</td>
<td>4</td>
</tr>
<tr>
<td>PUBH 4607 Gerontology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours Required for Degree:** 120 Credit Hours

**Suggested Course Sequence Freshman Year**

**First Semester**
- ENGL 1010 Critical Reading & Expository Writing 
  - 3 Credit Hours
- * HSCI 2010/11 Anatomy and Physiology I Lecture/Lab 
  - 4 Credit Hours
- Mathematics* 
  - 3-4 Credit Hours
- Social and Behavioral Sciences Elective* 
  - 3 Credit Hours
**Total Semester** 
- 13-14 Credit Hours

**Second Semester**
- ENGL 1020 Critical Thinking & Argumentation 
  - 3 Credit Hours
- * HSCI 2020/11 Anatomy and Physiology II Lecture/Lab 
  - 4 Credit Hours
- PUBH 2030 First Aid & Emergency Care 
  - 3 Credit Hours
- Social and Behavioral Sciences Elective* 
  - 3 Credit Hours
**Total Semester** 
- 13-14 Credit Hours

**Sophomore Year**

**First Semester**
- HIST 2010 The United States to 1877 
  - 3 Credit Hours
- HSCI 2220/31 Introduction to Microbiology Lecture and Lab 
  - 4 Credit Hours
- * CHEM 1030 Introduction to Chemistry Survey 
  - 4 Credit Hours
- * ALHE 2010 Introduction to Allied Health 
  - 3 Credit Hours
- Humanities/Fine Arts Elective* 
  - 3 Credit Hours
**Total Semester** 
- 16 Credit Hours
Practice and Licensure: For licensure, most states require dental hygiene graduates to pass both the National Dental Hygiene Board Examination and a licensing examination prescribed by the individual state board of examiners. Most states require dental hygienists to practice under the supervision of a licensed dentist.

The Dental Hygiene program offers a Bachelor of Science degree (B.S.).

Program Admission: All students applying to the program must meet the requirements for the specific degree programs listed in this catalog. All applicants must first apply and be admitted to the university. This admittance, however, does not assure acceptance to the dental hygiene program.

Applications for the university should be addressed to:
East Tennessee State University
Office of Admissions
Box 70731
Johnson City, TN 37614

A separate program application must be received by March 1 for consideration by the admissions committee. Students may secure academic advising prior to admission by contacting the Dental Hygiene Admissions Chair.

Requests for the application forms should be addressed to:
East Tennessee State University
College of Public and Allied Health
Admissions Chair, Dental Hygiene
Box 70690
Johnson City, TN 37614

You may also obtain the information by calling (423) 439-4497 or visiting the dental hygiene web site: www.etsu.edu/cpha/dental.

Requests for the B.S. online degree completion program for practicing dental hygienists may also be obtained from the above address, phone number, and/or web site address.

Expenses: In addition to the usual registration and tuition, students are required to purchase such personal items as uniforms, dental instruments, specialized textbooks, laboratory materials, and a dental hygiene pin. Expenditures for these items, which are the personal property of the student, are approximately $2,000. Most of this additional expense occurs during the first year of study.

Retention - Progression Policy: Dental Hygiene students will be allowed to progress in the dental hygiene curriculum as all dental hygiene courses and basic science courses (Anatomy and Physiology, Microbiology, and Chemistry) are completed with a grade of “C” or better. Progression status will be evaluated at the close of each semester. Students receiving less than a 2.0 in any of the classes listed above will be placed on probation. A student on probation who receives a second grade of less than 2.0 in one of the classes listed above will not be permitted to progress in the dental hygiene curriculum. Students earning failing grades in any dental hygiene course will be reviewed by the faculty to determine feasibility of progression. Following the faculty review of student performance, an individual plan for curriculum completion will be presented for consideration for any student affected.

Bachelor of Science Degree (B.S.) in Dental Hygiene

The B.S. degree consists of 67 credit hours of dental hygiene core classes and a minimum of 53 credit hours of general education core and prerequisite classes for a total of 120 credit hours. All courses offered in the dental hygiene core curriculum must be taken in sequence. The general education core classes may be taken prior to entry into the program. Because of the rigor of the curriculum, students are encouraged to complete all general education core classes prior to applying to the dental hygiene program.
Admission Requirements

Admission to the ETSU Dental Hygiene program requires that the applicant be admitted to the university before application to the professional program can be considered. If the applicant is in the process of applying to the university, he/she may receive conditional acceptance until the final university admission is received. If the applicant is a former ETSU student, he/she must apply and be readmitted to the university. Admission to the B.S. program requires the following information be submitted:

1. evidence of admission to the university,
2. completed program application form, and
3. official college transcripts from all institutions attended.

The program must receive all information by March 1. Upon receipt of this information, the Admission's Chair will review all aspects of the applicant's record to determine if the applicant will be considered for an interview. Entry into the B.S. program requires completion of all of the first-year classes listed in the curriculum. The equivalent courses at another institution will be accepted if the university accepts them as transfer credit.

TBR General Education Requirements .......... 41-42 Credit Hours

ENGL 1010 Critical Reading & Expository Writing .......... 3
ENGL 1020 Critical Thinking & Argumentation .......... 3
HSCI 2010/11 Anatomy and Physiology I Lecture/Lab .......... 4
HSCI 2020/11 Anatomy and Physiology II Lecture/Lab .......... 4
HIST 2010 The United States to 1877 ................. 3
HIST 2020 The United States Since 1877 .......... 3
Mathematics* .................................................. 3-4
Communication: Oral Communication* ..................... 3
Social and Behavioral Sciences*.............................. 6
Humanities and Fine Arts* ..................................... 9

*See General Education Core Requirements.

Major Requirements ........................................... 67 Credit Hours

DHYG 2020 Dental Anatomy & Histology ............ 3
DHYG 2040 Dental Office Emergencies ............ 2
DHYG 2030 Pre-Clinical Lecture ...................... 3
DHYG 2031 Pre-Clinical Lab ......................... 3
DHYG 2050 Occupational Safety for Dental Healthcare ......... 1
DHYG 2060 Introduction to Dental Hygiene .............................. 1
DHYG 2130 Clinical Seminar I .................... 1
DHYG 2131 Clinical Practice I ...................... 4
DHYG 2160 Periodontology .................. 3
DHYG 2170 Dental Radiology .................... 3
DHYG 2171 Dental Radiology Lab ................... 1
DHYG 3010 Head & Neck Anatomy ................... 2
DHYG 3020 General & Oral Pathology ............. 3
DHYG 3030 Clinical Seminar II .................... 2
DHYG 3031 Clinical Practice II .................... 4
DHYG 3110 Dental Materials ....................... 2
DHYG 3111 Dental Materials Lab ................... 1
DHYG 3120 Pharmacology ......................... 3
DHYG 3130 Community Dental Health ........ 3
DHYG 3200 Issues in Dental Hygiene .............. 1
DHYG 4000 Dental Radiographic Interpretation .............. 1
DHYG 4010 Teaching Strategies ...................... 3
DHYG 4020 Dental Hygiene Seminar III .......... 1
DHYG 4021 Dental Hygiene Clinical Practice III .............. 4
DHYG 4030 Anesthesia & Pain ....................... 1
DHYG 4110 Supportive Periodontal Therapy .............. 3
DHYG 4120 Dental Hygiene Clinical Seminar IV .............. 1
DHYG 4121 Dental Hygiene Clinical Practice IV ....... 1
DHYG 4130 Geriatric Dental Hygiene .......... 2
DHYG 4141 Community & Rural Dental Health .............. 1

Additional Requirements ............................. 12 Credit Hours

HSCI 2230 Introduction to Microbiology .......... 4
CHEM 1030 Introduction to Chemistry Survey .......... 4
PEXS/PHED ................................. 1
FACS 2420 Principles of Nutrition .............. 3

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

Suggested Course Sequence

Semester One - Fall Semester

ENGL 1010 Critical Reading & Expository Writing .............. 3
ENGL 1020 Critical Thinking & Argumentation .............. 3
HSCI 2010/11 Anatomy and Physiology I Lecture/Lab .............. 4
HSCI 2020/11 Anatomy and Physiology II Lecture/Lab .............. 4
HIST 2010 The United States to 1877 ................. 3
HIST 2020 The United States Since 1877 ........ 3
Mathematics* .................................................. 3-4
Communication: Oral Communication* ..................... 3
Social and Behavioral Sciences*.............................. 6
Humanities and Fine Arts* ..................................... 9

Semester Two - Spring Semester

ENGL 1020 Critical Thinking and Argumentation .............. 3
HSCI 2020/21 Anatomy and Physiology II Lecture & Lab .......... 4
HSCI 2233/31 Introduction to Microbiology Lecture & Lab .......... 4
Social and Behavioral Sciences Elective .............. 3
HIST 2220 The United States Since 1877 ........ 3

Semester Three - Fall Semester

SOAI 1020 Introduction to Sociology .............. 3
DHYG 2060 Introduction to Dental Hygiene .............................. 1
DHYG 2020 Dental Anatomy and Histology .............. 3
DHYG 2040 Dental Office Emergencies ............ 2
DHYG 2030/31 Pre-Clinical Lecture and Lab .......... 6
DHYG 2050 Occupational Safety for Dental Healthcare ......... 1
DHYG 4010 Teaching Strategies for Allied Health .......... 3

Semester Four - Spring Semester

FACS 2420 Principles of Nutrition .............. 3
DHYG 3020 General and Oral Pathology ............. 3
DHYG 2170 Dental Radiology .................... 3
DHYG 2171 Dental Radiology Lab ................... 1
DHYG 2130 Clinical Practice I .................... 4
DHYG 2130 Clinical Seminar I .................... 1
DHYG 3010 Head and Neck Anatomy ................... 2

Semester Five - Summer Semester

Communication: Oral Communication .............. 3
Humanities/Fine Arts Elective .............. 3
DHYG 3031 Clinical Practice II .............. 4
DHYG 3030 Clinical Seminar II .............. 2
DHYG 2160 Periodontology .............. 3
DHYG 4000 Dental Radiographic Interpretation .............. 1

Semester Six - Fall Semester

DHYG 4030 Anesthesia and Pain ...................... 1
DHYG 3110/11 Dental Materials Lecture and Lab .......... 3
DHYG 3120 Pharmacology ....................... 3
DHYG 4121 Dental Hygiene Clinical Practice III .......... 4
DHYG 4120 Dental Hygiene Seminar III .............. 1
DHYG 3130 Community Dental Health .......... 3

Semester Seven - Spring Semester

Humanities/Fine Arts Elective (Literature) .............. 3
Humanities/Fine Arts Elective .............. 3
DHYG 4110 Supportive Periodontal Therapy .............. 3
DHYG 4130 Geriatric Dental Hygiene .............. 2
DHYG 3000 Issues in Dental Health .............. 3
DHYG 4121 Dental Hygiene Clinical Practice IV .......... 4
DHYG 4120 Dental Hygiene Clinical Seminar IV .............. 1
DHYG 4141 Community and Rural Dental Health .............. 1

Total Semester Total............. 18

Total ................................. 120
Radiography integrates scientific knowledge and skills with effective patient interactions to provide quality patient care and useful diagnostic information. The radiographer performs radiographic examinations that create images needed for diagnosis. Radiographers must demonstrate an understanding of human anatomy, physiology, medical terminology, pathology, radiation protection, and patient assessment. Radiographers administer contrast media and medications in accordance with state and federal regulations and assist physicians to complete intricate medical procedures. Radiographers are the primary liaison between patients, physicians, and health agency staff. Additional duties may include equipment evaluation, conducting quality assurance programs, providing patient education, and departmental administrative functions. Radiographers are employed in health care facilities including specialized medical centers, urgent care clinics, private physicians' offices and as educators or department administrators. Salaries and benefits are generally competitive with other health professions and vary according to experience and employment location.

Upon course completion, individuals may apply to take the national certification examination. Successful completion of the American Registry of Radiologic Technologists (ARRT) certification examination permits use of the credential R.T. (R) following one's name. The R.T. signifies registered technologist and the (R) indicates radiography.

**TBR General Education Requirements .......... 41-42 Credit Hours**

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**Allied Health Core .................................................... 28 Credit Hours**

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<td>Introduction to Microbiology and Lab</td>
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<td>PUBH 2030</td>
<td>First Aid &amp; Emergency Care</td>
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<td>Health Care Systems</td>
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<td>ALHE 2010</td>
<td>Introduction to Allied Health</td>
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<td>ALHE 2020</td>
<td>Patient Care &amp; Assessment</td>
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<td>ALHE 4050</td>
<td>Research in Allied Health</td>
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<td>ALHE 4070</td>
<td>Leadership in Allied Health</td>
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<td>ENVH 3030</td>
<td>Allied Health Law</td>
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**Radiography Concentration (RADG) ................................. 51 Credit Hours**

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<td>Radiation Physics</td>
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<td>RADT 3060</td>
<td>Radiographic Imaging &amp; Quality</td>
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**Accredited by:** Joint Review Committee on Education in Radiologic Technology
20 N. Wacker Drive, Suite 900 Chicago, Illinois 60606 (312) 704-5300

East Tennessee State University

RADT 3070 Radiobiology ............................................. 4
RADT 4000 Clinical Education III ................................ 6
RADT 4010 Clinical Education IV ................................. 3
RADT 4020 Clinical Education V .................................... 3
RADT 4030 Radiographic Pathology ................................ 3
RADT 4040 Radiopharmaceuticals & Special Procedures .... 3
ENTC 4390 Medical Imaging Equipment Technology .......... 3
ENVH 4207 Principles of Radiological Health ............... 3

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

*Prerequisite courses must be completed prior to being accepted into the Radiography Concentration.

**Suggested Course Sequence**

**Freshman Year**

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**Second Semester**

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**Sophomore Year**

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<td>PUBH 2100</td>
<td>Health Care Systems</td>
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**Junior Year**

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**Senior Year**

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<td>Radiopharmaceuticals &amp; Special Procedures</td>
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Total .......................... 120
Department of Communicative Disorders (CDIS)

Box 70643  Phone: (423) 439-4272

The field of communicative disorders encompasses the professions of audiology and speech-language pathology. Persons working in the field assist individuals who have difficulties with hearing, speech, and/or language communication. Professionals are skilled in the techniques of evaluation, in (re)habilitation treatment, and in aspects of counseling communicatively handicapped individuals and their families. Audiologists and speech-language pathologists provide services to all age groups. Such services may be located in medical, educational, and private settings.

The Department of Communicative Disorders graduate programs in audiology and speech pathology are fully accredited by the American Speech-Language-Hearing Association (ASHA). Undergraduate students may receive preparation for the graduate programs in CDIS by selecting any major with a minor in CDIS. At the graduate level, the Department of CDIS offers two program tracks. Students enroll in either a two-year Master of Science degree in Speech-Language Pathology, or a four-year Doctorate in Audiology (AUD). Completion of the graduate programs in Communicative Disorders prepares the student to meet the requirements for professional certification by ASHA. The programs also meet licensure requirements for the Tennessee Board of Health Related Professions and the Tennessee Board of Education.

Application deadline for the graduate program is mid-February and may be completed while enrolled in prerequisite coursework. (See Graduate Catalog for specific application information). For students who have completed an undergraduate degree, conditional acceptance to the graduate program will be considered. The prerequisite coursework for the graduate program in Communicative Disorders includes the following:

At least 6 credit hours in the Biological/Physical Science and Mathematics (at least one course in each area). A course in statistics is recommended.

At least 6 credit hours in the Behavioral and/or Social Sciences including study that pertains to understanding normal/abnormal human behavior, developments across the life span, social interaction, and issues of culturally diverse populations.

Communicative Disorders Minor .................. 20 Credit Hours

A minimum of 20 credit hours in communicative disorders (17 must be upper division), including:

CDIS 4000 Communication Sciences and Disorders .......... 3
CDIS 4010 Speech and Hearing Science I .................. 4
CDIS 4020 Speech and Hearing Science II ................ 4
CDIS 4060 Language Development .......................... 3
CDIS 4200 The Clinical Process ................................ 3

One of the following elective courses from other departments is required:

SPCH 2330 Communication Theory ....................... 3
SPCH 3350 Interpersonal Communication .................. 3
ENGL 4120 Descriptive Linguistics .......................... 3
ENGL 4130 Social and Psychological Aspects of Language 3

Department of Environmental Health (ENVH)

Box 70682  Phone: (423) 439-5250

Accredited by: The National Environmental Health Science and Protection Accreditation Council

Statement of Purposes, Goals, and Objectives

The need for a healthful environment is common to all peoples and to all communities. The needs for environmental health services are complex because of changes brought about by economic and technological advances. There is an increasing need for technical personnel in the field of environmental health. The many problems brought about by economic and technological advances require a comprehensively trained specialist in environmental health.

The educational objectives of the department are to provide the student with an opportunity to:

1. Develop an understanding of
   a. the chemical, biological, physical, and social factors which affect the health of the community;
   b. relevant concepts from the social and behavioral sciences; and
   c. the environmental health systems.

2. Become proficient in
   a. identifying community environmental health needs;
   b. information collection, storage, retrieval, analysis, and dissemination; and
   c. environmental monitoring, analysis, and management.

3. Acquire skills in the application of the above techniques and knowledge necessary for solution of environmental health problems.

Degrees and Concentrations

At the undergraduate level the department offers the Bachelor of Science in environmental health degree. The programs leading to this degree are the environmental health concentration, which has a public health practice orientation, and the occupational health and safety concentration. In addition, the department offers a minor in environmental health and a minor in safety.

Degree Requirements

I. Concentration: Environmental Health

TBR General Education Requirements .............. 42 Credit Hours

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<td>Critical Thinking &amp; Argumentation</td>
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<td>MATH 1840</td>
<td>Calculus</td>
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<td>COMM 2600</td>
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<td>HIST 1110</td>
<td>United States to 1877</td>
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<td>The United States Since 1877</td>
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<td>BIOL 1110</td>
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<td>CHEM 1110</td>
<td>General Chemistry I Lec/Lab</td>
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<td>HUM 3000</td>
<td>Humanities and Fine Arts</td>
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*See General Education Core Requirements.
Environmental Health Core ........................................... 30 Credit Hours
CHEM 1120/21 General Chemistry II Lecture/Lab ................. 4
CHEM 2010/11 Organic Chemistry I Lecture/Lab ................. 5
PHYS 2010 General Physics I-Non-Calculus ...................... 3
HSCI 3000 Human Anatomy ........................................... 4
HSCI 3020 Human Physiology ......................................... 4
HSCI 3320/21 General Microbiology Lecture/Lab ............... 4
PUBH 3000 Introduction to Biostatistics ......................... 3
PUBH 3080 Principles of Epidemiology ......................... 3

Environmental Health Requirements ................................ 49 Credit Hours
ENVH 3010 Human Ecology and Environmental Education .......... 3
ENVH 3100 Water Supplies & Wastewater Treatment ............ 3
ENVH 3400 Introduction to Air Pollution ......................... 3
ENVH 3500 Environmental Safety .................................... 3
ENVH 3700 Solid Waste Management ................................ 3
ENVH 4000 Public Health Law ......................................... 3
* ENVH 4080 Environmental Health Practice .................... 3
ENVH 4100 Shelter Environments ..................................... 3
ENVH 4207 Principles of Radiological Health ..................... 3
ENVH 4340 Occupational Health ...................................... 3
ENVH 4357 Toxicology .................................................. 3
ENVH 4387 Biological Analysis in Environmental Health ....... 4
ENVH 4397 Environmental Analysis .................................. 4
ENVH 4400 Environmental Health Program ....................... 3
Planning and Administration ......................................... 3
ENVH 4607 Food Sanitation Principles ............................ 3
ENVH 4610 Soil Science for Environmental Health .............. 2

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

Note: ENVH 3989, ENVH 4989, or ENVH 4989 will substitute for ENVH 4080.

Note: ENVH 4000 not required for international students.

Suggested Course Sequences
Environmental Health Concentration

Freshman Year
First Semester
ENGL 1010 Critical Reading and Expository Writing ............ 3
Biol 1110/11 Biology Lecture/Lab .................................. 3
Oral Communication ................................................. 3
Humanities and Fine Arts Option ................................... 3
Social/Behavioral Sciences Option ................................ 3
Using Information Technology Challenge Exam .................. 3

Second Semester
ENGL 1020 Critical Thinking and Argumentation ................ 3
CHEM 1120/21 General Chemistry I Lecture/Lab ................. 4
Humanities and Fine Arts Elective (Literature) .......... 3

Sophomore Year
First Semester
HIST 2010 The United States to 1877 ............................ 3
PHYS 2010 General Physics I ........................................ 3
ENVH 3010 Human Ecology and Environmental Education .... 3
* Offered in summer only

Second Semester
HIST 2020 The United States Since 1877 ......................... 3
PUBH 3300 Introduction to Biostatistics ...................... 3
HSCI 3320/21 Microbiology Lecture/Lab ......................... 4
ENVH 3400 Introduction to Air Pollution ....................... 3

Junior Year
First Semester
CHEM 2010/11 Organic Chemistry I .................................. 5
HSCI 3000 Human Anatomy ........................................... 4
ENVI 3100 Water Supply and Wastewater Treatment ........... 3
ENVH 3700 Solid Waste Management ................................ 3

Second Semester
HSCI 3020 Human Physiology ........................................ 4
PUBH 3080 Principles of Epidemiology ......................... 3
ENVH 4000 Public Health Law ....................................... 3
ENVH 4100 Shelter Environments ................................... 3

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

TBR General Education Requirements ......................... 41 Credit Hours
ENGL 1010 Critical Reading & Expository Writing .............. 3
ENGL 1020 Critical Thinking & Argumentation ................ 3
MATH 1840 Analytic Geometry & Differential Calculus ....... 3
HIST 2010 The United States to 1877 ............................ 3
HIST 2020 The United States Since 1877 ......................... 3
CHEM 1120/21 General Chemistry I Lecture/Lab .............. 4
CHEM 1120/21 General Chemistry II Lecture/Lab ............ 4

Humanities and Fine Arts ............................................. 9

Occupational Health and Safety Requirements .................. 39 Credit Hours
ENVH 3400 Introduction to Air Pollution ....................... 3
ENVH 3500 Environmental Safety ................................... 3
ENVH 4207 Principles of Radiological Health .................... 3
ENVH 4340 Occupational Health ..................................... 3
ENVH 4347 Ergonomics .................................................. 3
ENVH 4357 Toxicology .................................................. 3
ENVH 4360 Industrial Hygiene Laboratory ....................... 4
ENVH 4387 Biological Analysis in Envir. Health ............... 4
ENVH 4397 Environmental Analysis ................................ 4
ENVH 4500 Fundamentals of OSH ................................. 3
ENVH 4710 Introduction to Hazardous Waste ................... 3
ENVH 4989 Cooperative Education ................................. 3

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

Note: ENVH 2989, ENVH 3989, or ENVH 4989 will substitute for ENVH 4080.

Suggested Course Sequences
Occupational Health and Safety Concentration

Freshman Year
First Semester
ENGL 1010 Critical Reading and Expository Writing ............ 3
Biol 1110/11 Biology for Science Majors I .................... 4
CHEM 1120/21 General Chemistry I .................................. 4
Oral Communication ................................................. 3

Second Semester
CHEM 2010/11 Organic Chemistry I .................................. 5
HSCI 3000 Human Anatomy ........................................... 4
ENVH 3100 Water Supply and Wastewater Treatment ........... 3
ENVH 3700 Solid Waste Management ................................ 3

Semester Total ....................................................... 15

Summer Semester
ENVH 4080 Environmental Health Practice .................... 3

Semester Total ....................................................... 3

Senior Year
First Semester
ENVI 4340 Occupational Health ..................................... 3
ENVI 4357 Toxicology .................................................. 3
ENVI 4387 Biological Analysis in Environmental Health ....... 4
ENVI 4397 Food Sanitation Principles ............................ 3

Semester Total ....................................................... 16

Second Semester
ENVI 3000 Environmental Safety .................................... 3
ENVI 4387 Principles of Radiological Health .................... 3
ENVI 4387 Environmental Analysis ................................ 4
ENVI 4400 Environmental Health Planning & Administration .... 3
ENVI 4610 Soil Science for Environmental Health .............. 2

Semester Total ....................................................... 15

Total ................................................................. 120

II. Concentration: Occupational Health and Safety

Mathematics and Science Requirements ......................... 40 Credit Hours
ENGL 1010 Critical Reading & Expository Writing .............. 3
ENGL 1020 Critical Thinking & Argumentation ................ 3
MATH 1840 Analytic Geometry & Differential Calculus ....... 3
Communication: Oral Communication* .......................... 3
Social and Behavioral Sciences* .................................... 6

HIST 2010 The United States to 1877 ............................ 3
HIST 2020 The United States Since 1877 ......................... 3
CHEM 1120/21 General Chemistry Lecture/Lab .............. 4
CHEM 2010/21 General Chemistry II Lecture/Lab ............ 4

Humanities and Fine Arts ............................................. 9

East Tennessee State University

2006-2007 Undergraduate Catalog

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Minor in Environmental Health

The objective of offering this minor is to enable students to find a wider selection of employment opportunities. For example, the students may wish to major in biological sciences, chemistry, criminal justice, physics, geography/geology, health science, technology, and pre-med or pre-engineering. A minor in environmental health will broaden their knowledge and augment their chances of employment in their chosen field. If employment is not available in their chosen field, they may be employed in environmental health/public health protection types of work.

A student with a major in the sciences and a minor in environmental health has an enhanced opportunity of finding employment in some industrial settings. As an example, the chemical industry needs environmental control personnel who are trained in chemistry.

Preprofessional majors, who choose not to or are unable to continue in professional school, will be much better prepared to seek employment within a federal, state, or local public health agency.

Admission Requirements – In addition to meeting the requirements for admission to the university, applicants must apply to the Department of Environmental Health. Students must have an overall GPA of 2.30.

Environmental Health Minor ........................................ 22 Credit Hours
A. *PUBH 3080 Principles of Epidemiology, and
ENVH 3404 Environmental Sanitation ............................. 6
B. Select at least one of the following:
* ENVH 4387 Bio. Analysis in Envir. Health, or
* ENVH 4397 Environmental Analysis ......................... 4
C. Select at least two of the following:
ENVH 3100 Water Supplies and Wastewater Treatment
ENVH 3400 Introduction to Air Pollution
ENVH 3700 Solid Waste Management
ENVH 4340 Occupational Health
* ENVH 4607 Food Sanitation Principles ..................... 6
D. At least six hours of other environmental health courses.
These courses must be approved by the Department of Environmental Health .................. 6

*Note: Prerequisites must be completed prior to enrollment.

Minor in Safety

The objective of a minor in safety is to allow students in other disciplines to supplement their major knowledge with safety training. For example, students may wish to major in chemistry and minor in safety and thus enhance their chances of being employed in an industry where a strong knowledge of safety programs is needed. Students with the following majors would find a safety minor to be of particular interest: engineering technology, technology, biological sciences, chemistry, criminal justice, and management.

Students minoring in safety should be qualified for a wide variety of employment opportunities with local, state, and federal agencies, as well as with industry. Graduates of this program would be able to offer employers the alternative of hiring an academically qualified safety officer as opposed to the expensive alternative of retraining an employee in safety management.

Admission Requirements – In addition to meeting the requirements for admission to the university, applicants must apply to the Department of Environmental Health.

Safety Minor ...................................................... 20 Credit Hours
ENVH 3500 Environmental Safety ......................... 3
ENVH 4347 Ergonomics ................................. 3
PUBH 2030 First Aid and Emergency Care .... 3
PUBH 3010 Accident Prevention ....................... 2
ENTC 4777 Safety Management ..................... 3
ENVH Electives ......................... 6

Suggested Electives Include:
ENVH 4340 Occupational Health ..................... 3
ENVH 4207 Principles of Radiological Health .... 3
ENVH 4710 Introduction to Hazardous Wastes .... 3
Cooperative Education ........................... 3

The Department of Environmental Health also offers a minor in Emergency Response and Disaster Management. This minor is offered jointly with the Department of Public Health. Requirements for completion of this minor are listed in the catalog in the Department of Public Health section.

Graduate Study

Admission to the graduate program requires a baccalaureate degree from an accredited institution of higher learning. Majors pursue studies with emphasis in the specialist area or the administrative area. Further information on graduate programs is contained in the Graduate Catalog.

East Tennessee State University

Second Semester  Credit Hours
ENGL 1020 Critical Thinking and Argumentation .................. 3
CHEM 1120/21 General Chemistry II ......................... 4
PHYS 2101/11 General Physics I/Lecture/Lab ................. 4
Humanities/Fine Arts option ................................... 3
Semester Total ........................................... 14

Sophomore Year

First Semester  Credit Hours
HIST 2100 The United States to 1877 ......................... 3
MATH 1840 Analytic Geometry & Differential Calculus .... 3
CHEM 2010/21 Organic Chemistry I ......................... 5
Humanities/Fine Arts option ................................... 3
Semester Total ........................................... 14

Second Semester  Credit Hours
HIST 2200 The United States Since 1877 ................. 3
CHEM 2200/21 Organic Chemistry II ............ 5
HSCI 3001 Human Anatomy ......................... 4
Humanities/Fine Arts option ................................... 3
Semester Total ........................................... 15

Junior Year

First Semester  Credit Hours
CHEM 2220/21 Quantitative Analysis Lecture/Lab ............ 4
HSCI 3250/21 General Microbiology ......................... 4
Social/Behavioral Sciences option ......................... 3
Semester Total .................................................. 14

Second Semester  Credit Hours
PUBH 3000 Principles of Epidemiology .................. 3
HSCI 3260/21 General Microbiology ......................... 4
ENVH 3400 Introduction to Air Pollution .................. 3
ENVH 3500 Environmental Safety ......................... 3
ENVH 4500 Fundamentals of Occ. Safety & Health ........ 3
Semester Total ........................................... 16

Summer Session

Senior Year

First Semester  Credit Hours
ENGL 3207 Principles of Radiological Health ............... 3
ENVH 4340 Occupational Health ......................... 3
ENVH 4387 Toxicology ................................. 3
ENVH 4397 Biological Analysis in Env. Health ........ 4
Social/Behavioral Sciences option ......................... 3
Semester Total .................................................. 16

Second Semester  Credit Hours
ENVH 4347 Ergonomics ................................. 3
ENVH 4380 Industrial Hygiene Lab ......................... 3
ENVH 4387 Environmental Analysis ....................... 4
ENVH 4710 Introduction to Hazardous Waste ............ 3
Semester Total ........................................... 14

Total ......................................................... 120

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Microbiology Concentration (minor required)

During the sophomore year the microbiology major should choose general microbiology and pathogenic microbiology. Frequent advising is necessary to ensure that career objectives are attained.

TBR General Education Requirements ............... 41 Credit Hours

<table>
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<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tr>
<td>ENGL 1010 Critical Reading &amp; Expository Writing</td>
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<td>ENGL 1020 Critical Thinking &amp; Argumentation</td>
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<tr>
<td>HIST 2020 The United States Since 1877</td>
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<tr>
<td>BIOL 1110/11 Biology for Science Majors I Lecture/Lab</td>
<td>4</td>
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<tr>
<td>MATH 1530 Probability and Statistics</td>
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Other graduation requirements

CSCI 1100 Using Information Technology ........... 3

Additional science requirements

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<th>Course</th>
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<tr>
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Microbiology Core (minor required) ............ 31 Credit Hours

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<th>Course</th>
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<tbody>
<tr>
<td>HSCI 3320/21 General Microbiology</td>
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<tr>
<td>HSCI 3510 Pathogenic Microbiology</td>
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<td>HSCI 3540 Immunology</td>
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<tr>
<td>HSCI 4607 Bacterial Physiology</td>
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<td>HSCI 4770 Virology</td>
<td>4</td>
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<tr>
<td>HSCI 4147/57 Biochemistry of Macromolecules Lec/Lab</td>
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<td>HSCI 4730 Molecular and Microbial Genetics</td>
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<td>HSCI Elective</td>
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Minor and Free Electives ....................... 19 Credit Hours

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

Microbiology Concentration (no minor required)

During the sophomore year the microbiology major should choose general microbiology and pathogenic microbiology. Frequent advising is necessary to ensure that career objectives are attained.

TBR General Education Requirements ............... 41 Credit Hours

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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ENGL 1010 Critical Reading &amp; Expository Writing</td>
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<tr>
<td>PSYC 1310 Introduction to Psychology</td>
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<td>Social and Behavioral Science (select one)</td>
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<td>HIST 2010 The United States to 1877</td>
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<td>HIST 2020 The United States Since 1877</td>
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<td>MATH 1530 Probability and Statistics</td>
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Other graduation requirements

CSCI 1100 Using Information Technology ........ 3

Additional science requirements

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<th>Course</th>
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<td>PHYS 2010/11 General Physics I Lecture/Lab</td>
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Microbiology Core (no minor required) ........ 27 Credit Hours

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<td>HSCI 3540 Immunology</td>
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<td>HSCI 4607 Bacterial Physiology</td>
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<tr>
<td>HSCI 4770 Virology</td>
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<tr>
<td>HSCI 4147/57 Biochemistry of Macromolecules Lec/Lab</td>
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<tr>
<td>HSCI 4730 Molecular and Microbial Genetics</td>
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Microbiology Electives ............................ 23

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<th>Course</th>
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<tbody>
<tr>
<td>PUBH 3000 Biostatistics</td>
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Select 17 additional hours from the following list:

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<td>HSCI 3020 Human Physiology</td>
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<td>HSCI 3022 Human Physiological Systems</td>
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<td>HSCI 4747 Mycology</td>
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<td>HSCI 4480 Clinical Parasitology</td>
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<td>HSCI 2500 AIDS: Biology and Beyond</td>
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<td>HSCI 4590 Independent Study</td>
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<td>HSCI 4067 Neurology</td>
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<td>HSCI 4018 Senior Thesis</td>
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Total Hours Required for Degree .......... 120 Credit Hours

The American Society for Microbiology (ASM) program certification requires that the student have at least 20 credit hours in microbiology as broadly defined. In addition to the ASM requirements and a year of Physics (2010-2011, 4 hours; 2020-2021, 4 hours), the National Registry of Microbiologists requires a minimum of one year of work experience before an applicant for registration may take written examinations in general microbiology and in at least two specialty areas. The specialties include both theoretical and applied aspects of pathogenic bacteriology, immunology and serology, parasitology, mycology, virology, and the combined areas of food, dairy, and sanitation microbiology, or of agricultural and industrial microbiology.
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<th>Sophomore Year</th>
<th>Credit Hours</th>
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<tbody>
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<td>Second Semester</td>
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<th>Suggested Course Sequence (no minor required)</th>
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Department of Physical Therapy (PHYT)

Box: 70624 Phone: (423) 439-8275

Physical Therapy, which is the care and services provided by or under the direction and supervision of a physical therapist, includes: 1) examining and evaluating patients with health-related conditions, impairments, functional limitations, and disability in order to determine a diagnosis, prognosis, and intervention; 2) alleviating impairments and functional limitations by designing, implementing, and modifying therapeutic interventions; 3) preventing injury, impairments, functional limitations, and disability, including promoting and maintaining fitness, health, and quality of life in all age populations; and 4) engaging in consultation, education, and research. (Adopted by the American Physical Therapy Association (APTA) Board of Directors in March 1995 (B.D. 03-95-24-64)

The university offers a post-baccalaureate entry-level doctor of physical therapy degree (D.P.T.) program. Information on the graduate program in physical therapy is available in the ETSU Graduate Catalog and on the department web site: www.etsu.edu/cpah/physther/index.htm.

Department of Public Health (PUBH)

Box 70674 Phone: (423) 439-4332

The Bachelor of Science degree through the Department of Public Health prepares students for careers as public health professionals. There are currently four program concentrations offered - Community Health; Patient Education; School Health; and Health 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 credential 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.

TBR General Education Requirements: ............. 41 Credit Hours

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<thead>
<tr>
<th>Course</th>
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I. Public Health Core: ............. 46 Credit Hours

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<td>School Health</td>
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<td>PUBH 4007</td>
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II. Health Care Admin. Concentration: ............. 15 Credit Hours

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<td>FACS 2420</td>
<td>Principles of Nutrition</td>
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<td>PUBH 4060</td>
<td>Comm. Org. for Health Ed Programs</td>
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Electives (select at least one of the following)

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III. Health Education Concentration: ............. 15 Credit Hours

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Electives (select at least one of the following)

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IV. School Health Concentration: ............. 15 Credit Hours

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Electives (select at least one of the following)
PUBH 3500 Consumer Health .................................................. 2
PUBH 3010 Accident Prevention ............................................. 3
PUBH 4937 Stress Management ............................................. 3
PUBH 3950 Public Health Research ......................................... 3
PUBH 3200 Health Services Planning ....................................... 3
PUBH 4007 Principles & Practices of Patient Education ............ 3
PUBH 4060 Community Org for Health Ed Programs .............. 3

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

Licensure (K-12) – Consists of 31 hours and includes the following courses: Lifetime Behaviors for Healthy Living 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 in Public Health

A minor in Public Health consists of 22 hours and includes Lifetime Behaviors for Healthy Living 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.

Emergency/Disaster Response Management Minor

Required Courses ..................................................... 6 Credit Hours
PEXS 2950 Disaster Response Training .................................. 3
PUBH 2030 First Aid and Emergency Care ......................... 3

Guided Electives ...................................................... 12 Credit Hours
ENVH 4727 Hazardous Waste Operations and

Emergency Response ............................................... 3
ENVH 3500 Environmental Safety ....................................... 3
ENVH 4207 Radiological Health .......................................... 3
PUBH 1010 Lifetime Behaviors for Healthy Living ............... 3
PUBH 3010 Accident Prevention ....................................... 3
PUBH 4030 Community Health ........................................ 3

Total Hours Required for Minor ........................................... 18
The School of Graduate Studies currently offers 15 master's degrees, covering a wide range of academic disciplines, as well as the Education Specialist degree (Ed.S.), the Doctor of Audiology (Au.D.), the Doctor of Education (Ed.D.), the Doctor of Philosophy (Ph.D.), and the Doctor of Science in Nursing (D.S.N.) degrees. In addition to these degree programs, ETSU offers graduate certificates in: Advanced Nursing Practice, Epidemiology, Gerontology, Health Care Management, Business Administration, E-Business, Entrepreneurial Leadership, Archival Studies, and Emerging Technology.

Specific degree and certificate program requirements are found in the Graduate Catalog. Upon completion of the bachelor's degree, a student may take courses in a degree program or as a non-degree graduate. Undergraduates are welcome to apply for admission during their final year of coursework and can be admitted contingent upon completion of the undergraduate degree.

Graduate Program Specialists

Each graduate program or major is represented by a Graduate Program Specialist who is prepared to assist students with all aspects of the graduate process, from admission through graduation. If you have questions or would like to explore options for graduate study, please contact the appropriate program specialist listed below:

Mary Duncan  
(423) 439-4302  
duncanm@etsu.edu  
Allied Health, Audiology, Biomedical Sciences, Environmental Health, Nursing, Physical Therapy, Public Health, Speech Pathology and five (5) certificate programs: Advanced Nursing Practice, Biostatistics, Epidemiology, Gerontology, and Health Care Management.

Judy Lawson  
(423) 439-6590  
lawsonj@etsu.edu  
M.B.A., Accounting, City Management, Public Administration, all degrees in Educational Leadership and Policy Analysis, Social Work, and three (3) certificate programs: Business Administration, E-Business, and Entrepreneurial Leadership.

Robin O'Dell  
(423) 439-6148  
odell@etsu.edu  

Gail Powers  
(423) 439-4703  
powers@etsu.edu  
Art, Biological Sciences, Chemistry, Clinical Nutrition, English, History, Mathematics, Microbiology, Communications (Professional), Sociology and Anthropology, Technology, Liberal Studies, Professional Studies and two (2) certificate programs: Archival Studies and Emerging Technology.

Application for Graduate Study

Any student wishing to take graduate courses, whether degree seeking or non-degree, may submit a traditional paper application or an electronic application. Paper applications are available in the Graduate Office, located at 309 Burgin Dossett Hall, and will be mailed on request. Electronic applications are available at the Graduate School website: www.etsu.edu/goldlink.htm.

Both paper and electronic formats contain complete instructions and requirements for admission.

Non-Degree Students

Students who wish to take graduate coursework but do not wish to pursue a graduate degree should apply for admission as Graduate Non-Degree students. Graduate Non-Degree classification is limited to those students who have earned a bachelor's degree and who wish to take graduate-level classes. All Graduate Non-Degree applicants must provide official transcripts verifying that they have earned a bachelor's degree from a regionally accredited institution and must receive approval to register from the chair or graduate coordinator of the appropriate department. All questions regarding non-degree status should be directed to Robin O'Dell, (423) 439-6148, odell@etsu.edu.

Advanced Admission for Undergraduates

A senior lacking no more than nine credit hours for graduation at East Tennessee State University may petition to register for graduate courses during the final semester of undergraduate enrollment. The petition form is available in the Graduate Office. The following stipulations apply:
1. Student must be within 9 hours of completion of the undergraduate degree at ETSU.
2. The total course load for a senior enrolled for graduate coursework may not exceed 12 credit hours.
3. Student must meet the undergraduate grade point average required in his or her specific program.
4. Undergraduate degree must be completed during the semester in which the student is allowed to register for graduate work.

Graduate Catalog

The School of Graduate Studies issues a Catalog which includes detailed information about graduate program offerings and requirements for admission. The Catalog is available in hard copy and online. For a hard copy, please send an e-mail to gradsch@etsu.edu or write to the School of Graduate Studies, East Tennessee State University, P.O. Box 70720, Johnson City, TN 37614-1710. The online Catalog is available at: www.etsu.edu/reg/grad-cat-index.htm.
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ACCT 2010 Principles of Accounting I (3 credits)—Prerequisite(s): Required freshman math course as defined by the student’s major. A study of accounting theory and procedures underlying financial statement preparation. Additional topics include accountability, financial auditing, financial statement analysis, and income tax accounting.

ACCT 2020 Principles of Accounting II (3 credits)—Prerequisite(s): A C C T 2010. (A continuation of ACCT 2010) This course is a study of management accounting including costing, cost-volume-profit analysis, budgeting, productivity analysis, capital investment decisions, planning and control, and managerial decision-making in advanced manufacturing environments. Additional topics include accounting information systems and quality control measurements.

ACCT 3000 Professionalism in Accounting (3 credits)—Prerequisite(s): A minimum grade of “C” (2.0) in A C C T 2010 and A C C T 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 accounting, and legal and educational requirements of various professional certifications.

ACCT 3010 Financial Accounting I (3 credits)—Prerequisite(s): A minimum grade of “C” (2.0) in A C C T 2010 and A C C T 2020; junior standing. An advanced study of financial accounting and reporting including historical development, theoretical structure, the accounting process, financial statements, revenue recognition, current asset and liability recognition, and inventory valuation.

ACCT 3020 Financial Accounting II (3 credits)—Prerequisite(s): A C C T 3000 and A C C T 3010 with a minimum grade of “C” (2.0); admission to a major. (A continuation of ACCT 3010) A study of financial accounting theory and practice for recording and reporting plant assets, financial instruments, income taxes, stockholders’ equity, earnings per share, and capital maintenance theories.

ACCT 3090 Administrative Accounting (3 credits)—Prerequisite(s): A C C T 2020; junior standing. The study of accounting as it relates to administrative planning and control in the business environment. Topics addressed will include budgeting, responsibility accounting systems, financial statement analysis, and special quantitative decision techniques. NOT FOR ACCOUNTANCY MAJORS OR MINORS

ACCT 3110 Management Accounting (3 credits)—Prerequisite(s): A C C T 2020; junior standing. A study of cost accounting emphasizing job order costing, process costing, capital budgeting, and budget control analysis.

ACCT 3410 Federal Income Taxes (3 credits)—Prerequisite(s): A C C T 2020; junior standing. A study of federal income tax law with emphasis on taxation of individuals with an introduction to taxation of partnerships and corporations.

ACCT 4010 Advanced Financial Accounting (3 credits)—Prerequisite(s): A C C T 3020 and admission to a major. A study of leases, pensions, and application of accounting theory to partnerships, branches, business combinations, consolidated financial statements, installment sales, consignments, and corporate reorganization.

ACCT 4018 Senior Honors Seminar (3 credits)—Prerequisite(s): E C O N 3088 and admission to the College of Business and Technology Honors Program. A seminar for College of Business and Technology Honors students who are working on senior honors theses or their approved projects. Upon successful completion of the course, students will have demonstrated the ability to complete the research process by creating a written product suitable for submission to the College of Business and Technology faculty.

ACCT 4127/5127 Cost Accounting II (3 credits)—Prerequisite(s): A C C T 3110. A study of cost accounting emphasizing managerial cost information for forecasting, planning, control, and behavioral factors.

ACCT 4310 Accounting Information Systems (3 credits)—Prerequisite(s): A C C T 3020, A C C T 3110, C S C I 1100, N G M T 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(s): A C C T 3410. A continuation of ACCT 3410) A study of federal income taxation of partnerships, corporations, trusts, gifts, and estates.

ACCT 4527/5527 Financial Statement Analysis (3 credits)—Prerequisite(s): A C C T 3010 or A C C T 5000. An in-depth study of the methods used to analyze balance sheets, income statements, cash flow statements, and other financial information. The types of analyses studied include ratio analysis, cross-sectional analysis, time-series analysis, and capital market analysis.

ACCT 4610 Auditing Theory and Practice (3 credits)—Prerequisite(s): A C C T 3010, A C C T 4310, and admission to a major; Corequisite(s): A C C T 4310. An introduction to the theory, concepts, and principles of auditing, emphasizing audit evidence, audit risk, ethical conduct and legal restrictions, professional standards, audit planning, and audit reports.

ACCT 4627/5627 Auditing II (3 credits)—Prerequisite(s): A C C T 4610 or equivalent. (A continuation of ACCT 4610) Emphasis on the uses of statistical sampling, auditing EDP systems, analytic review techniques and objectives, and methodology of operational auditing.

ACCT 4707/5707 Financial Accounting Standards (3 credits)—Prerequisite(s): A C C T 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 4717 Not-For-Profit Accounting (3 credits)—Prerequisite(s): Completion of A C C T 3010 and A C C T 3020 with a grade of “C” or better. Introduces the student to governmental and other not-for-profit entity accounting, in addition to governmental entities, and voluntary health and welfare.

ACCT 4900 Independent Study in Accounting (1-3 credits)—Prerequisite(s): Departmental and college approval. A course designed for advanced students who, under the direction of a department of Accountancy faculty member, wish to engage in independent research or an intensive study of subjects not covered in other available courses.

ACCT 4905 Accountancy Internship (3 credits)—Prerequisite(s): A minimum of 30 credit hours at the upper-division level in the student's major; junior or senior standing; and a 2.7 (minimum) GPA. Students are selected through a competitive process for assignments in approved business or public-sector organizations as interns under the supervision of the internship coordinator and field placement supervisors. Students may not earn more than three (3) semester credits for this course, which can be used as a free elective or an elective within a business major with prior approval by the department chair.

ACCT 4957/5957 Topics in Accountancy (3 credits)—Prerequisite(s): Senior or graduate standing and permission of instructor. This course gives students an opportunity to study special problems and new developments in the field of accountancy.

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

Graduate Course Listing

ACCT 5000 Essentials of Accounting ........................................... (3 credits)
ACCT 5010 Seminar in Financial Accounting I ............................... (3 credits)
ACCT 5019 Supervised Teaching .................................................. (3 credits)
ACCT 5020 Seminar in Financial Accounting II ............................. (3 credits)
ACCT 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)

ADVR 2070 Advertising Graphics (3 credits)—Fundamentals and practice in the creation and production of advertising communication using computer technology.

ADVR 3240 Advertising Principles (3 credits)—Advertising fundamentals in relation to the media and business activities. Stress on communications aspects of advertising.

ADVR 3250 Advertising Copy and Layout (3 credits)—Prerequisite(s): ADVR 3240 and a grade of “C” or better in ADVR 2070. Instruction and practice in preparing advertising copy and layouts for presentation to potential customers. Ideas and their translation into persuasive words and pictures for both print and broadcast media.

ADVR 3260 Radio/TV Advertising (3 credits)—Prerequisite(s): RTV F 2600 or ADVR 3240. The role of the radio and television industry as an advertising medium with a study of its organization, agencies, principles, and practices in the techniques of advertising campaigns.

ADVR 3270 Advertising Media Planning (3 credits)—Prerequisite(s): ADVR 3250 or consent of instructor. Instruction in fundamental concepts of media-buying decisions, including media arithmetic, creative strategy, and vehicle selections.

*ADVR 3750 Advertising Campaign Management (3 credits)—Prerequisite(s): ADVR 3270. Instruction in planning and implementing the complete advertising campaign. Stresses managerial practices of setting objectives, creative and media strategies, budgeting, measuring effectiveness, and dealing with agencies.

NOTE: Students cannot receive credit for both ADVR 3750 and MKTG 3750.

ADVR 4018 Honors Thesis (3 - 6 credits)—Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

ADVR 4080 Advertising Internship (3 credits)—Prerequisite(s): Permission of instructor. Supervised professional experience in advertising.

ADVR 4101 Topics in Advertising (1-6 credits)

ADVR 4250 Advertising Agency Management (3 credits)—Prerequisite(s): A D V R 3270. Instruction in the decision-making processes of advertising agency managers. Current social, legal and ethical issues, advertising agency relations, and agency management. Students will generate alternatives and develop solutions using case study methods.

ADVR 4900/5900 Independent Study—Advertising (1-3 credits)

* Cross-listed with MKTG 3750

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

ADVR 5101 Topics in Advertising ............................................. (1-6 credits)
ADVR 5900 Independent Study in Advertising ............................. (1-3 credits)

African and African American

AFAM

*AFAM 3989 Cooperative Education (3 credits)—Prerequisite(s): Permission of program advisor. Planned and supervised employment related to African/African-American Studies.

**AFAM 3999 Cooperative Education (3 credits)—Prerequisite(s): Permission of program advisor. An extension of a planned and supervised employment related to African/African-American Studies.

**AFAM 4900 Special Studies (3 credits)—Prerequisite(s): Permission of program advisor. Designed to afford opportunities for study not provided for in regular course offerings for undergraduates.

Allied Health

ALHE

ALHE 2000 Seminar (3 credits)—An integration of allied health theories, principles, procedures, and equipment presented throughout the declared area of concentration. Reinforcement of basics will be stressed. Current developments and innovations will be included.

ALHE 2010 Introduction to Allied Health (2 credits)—A course familiarizing the student with the many facets of allied health professions including types of health care professionals, medical ethics, terminology, safety, infection control, and microbiology.

ALHE 2020 Patient Care and Assessment (3 credits)—Prerequisite(s): Current CPR certification. This course emphasizes medical techniques and nursing procedures required during medical procedures for allied health majors. Assessment of vital signs, pharmacology, venipuncture, legal implications, and patient and physician rights will be introduced. Agency protocol for the various disciplines will be presented.

ALHE 3010 Allied Health Professionals (3 credits)—The purpose of this course is to serve as a transition course for the student in pursuit of a baccalaureate degree in Allied Health. Theories and concepts of professional allied health practitioners are explored in relationship to their roles in the health care system. The course includes content about practice expectations of a baccalaureate degree allied health practitioner in a multi-cultural society.

ALHE 4060 Research in Allied Health (3 credits)—Prerequisite(s): Permission of instructor. This course is intended to enhance the allied health practitioner’s skills in the development and interpretation of research. Discussions on various research designs, statistical procedures, sampling techniques, and literature reviews. Assignments inclusive of advanced writing applications and technology utilization will be required.

ALHE 4070 Leadership in Allied Health (3 credits)—Prerequisite(s): A L H E 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 1100 Basics of Patient Care (4 credits)—Prerequisite(s): Permission of instructor. This course is designed to expand the knowledge and skills of Certified Nursing Assistants and introduce them to a professional nursing program.

ALNU 3005 Dosage Calculations (1 credit)—This course focuses on the necessary steps involved in solving clinically oriented calculations. A basic math review includes number systems, conversion of systems, fractions, decimals, ratio and proportion, and percentage. Methods of dosage calculation are included as a prerequisite to solving practical calculation problems for oral, injectable, and intravenous medications.

ALNU 3010 Pharmacology for Nursing (3 credits)—Prerequisite(s): A L N U 2016 or permission of D e p a r t m e n t C h a i r. 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 3016 Pathophysiology: Concepts of Disease Process (3 credits)—Prerequisite(s): HSCI 3000, or HSCI 2010/11, and HSCI 2020/21, HSCI 3020, or HSCI 3022. This course examines the pathophysiology of disease processes throughout the lifespan. Alterations in the mechanisms of inflammation, immunity, patency, sensory-motor, regulatory, and cellular development that result in disease are presented.

ALNU 3030 Foundations of Nursing Practice (3 credits)—Prerequisite: Completion of second semester, sophomore courses. Prerequisite or Corequisite: ALNU 3010. This course introduces the foundations for nursing care of clients’ human needs. Emphasis is placed on independent and interdependent nursing interventions that aid adult clients and families in meeting their needs related to hygiene, mobility, safety, oxygenation, comfort, rest, sleep, and elimination.

ALNU 3031 Foundations Practicum (4 credits)—Prerequisite(s): Completion of second semester, sophomore courses; Prerequisite or Corequisite A L N U 3030. This course focuses on the development of nursing skills. Students use the concepts of caring, nursing process, critical thinking, and communication to provide nursing care for adults with diverse health needs.

ALNU 3170 Transition to Professional Practice for Licensed Practical Nurses (3 credits)—Prerequisite(s): FCNU 2010, FCNU 2030, and PMNU 2020; Prerequisite(s) or Corequisite(s): A L N U 3010 and A L N U 3016. This course is designed as a transition course for the Licensed Practical Nurse pursuing a baccalaureate degree in nursing. The course focuses on validation and enhancement of previously learned skills, as well as the development of new knowledge and skills for the practice of professional nursing in the 21st century.

ALNU 4000 Care of Middle-Aged Adults (3 credits)—Prerequisite(s): Completion of junior-level nursing courses or permission of the department chair. 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, to 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)—Prerequisite(s): Aceptance 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. May be taken twice for credit.

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

ALNU/FCNU/PMNU 4018 Nursing Honors Thesis (3 or 6 credits)—Prerequisite(s): A dmission to the College of Nursing Honors Program, H onors 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 4021 Adult and Family Care III (6 credits)—Prerequisite(s): Completion of junior-level nursing courses; Prerequisite(s) or Corequisite(s): A L N U 4000 and A L N U 4020. This course focuses on the care of middle-aged and older adults with complex health problems. Diverse practice settings are used to plan, evaluate, and manage complex nursing care.

ALNU 4050 Care of Older Adults (3 credits)—Prerequisite(s): Completion of second semester, junior courses. Prerequisite or Corequisites: A L N U 4040, A L N U 4041. Content of this course focuses on the care of the older adult emphasizing (a) the promotion of health in the elder; (b) restoration and rehabilitation for the ill elder; (c) chronicity and the elder; and (d) palliative measures for the dying client.

ALNU 4260 Introduction to Critical Care Nursing (2 credits)—Prerequisite(s): A L N U 4000, A L N U 4020, A L N U 4021, PMNU 4030, or permission of instructor. This course presents specific content for care of the critically ill adult, including advanced technology, nursing skills, nursing assessments, and nursing interventions.

ALNU 4267/5267 Nursing Management of the Critically Ill Adult (3 credits)—Prerequisite(s): Current R.N. License, or permission of the instructor, an A rhythmia or D ysh rhythmia course. Comprehensive, systems-based nursing care of the critically ill adult client utilizing the nursing process with emphasis on health maintenance and restoration concepts, client and family psychosocial issues, and ethical-legal issues. E elective

ALNU 4300 Skills Validation (1 credit)—Prerequisite(s): A dmission to the nursing major. Selected clinical skills will be reviewed and validated specific to the student’s particular level in the nursing program. May be repeated. E elective

ALNU 4900 Nursing Independent Study (1-3 credits)

ALNU 4957/5957 Special Topics in Nursing (1-6 credits)—Prerequisite(s): Permission of the instructor. Special topics related to nursing and health care will be presented. Course may include didactic and experiential methods of instruction. May be repeated for credit if course content is significantly different or advanced. E elective

ALNU/FCNU/PMNU 4989 Cooperative Education in Nursing (1-3 credits)—Prerequisite(s): Permission of department chair. This course, with 1-3 credits, as arranged, allows the student to spend time in a career-related work experience. Formal agreements are established by the university and the employer to help students accomplish specific educational outcomes. Course is offered only on a pass/ fail basis. E elective

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

ALNU 5009 Health Assessment Throughout the Lifespan (3 credits)
ALNU 5010 Health Assessment Practicum (3 credits)
ALNU 5011 Life Span Assessment & Clinical Management: Young & Middle Adults (2 credits)
ALNU 5012 Life Span Assessment & Clinical Management: Young & Middle Adult Practicum (3 credits)
ALNU 5013 Life Span Assessment & Clinical Management: Older Adults (2 credits)
ALNU 5014 Life Span Assessment & Clinical Management: Older Adults Practicum (3 credits)
ALNU 5016 Pathophysiology for Nursing Diagnosises 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 (2 credits)
ALNU 5038 Advanced Concepts in Pathophysiology (3 credits)
ALNU 5900 Independent Study (1-3 credits)
ALNU 5960 Thesis (1-6 credits)
ALNU 5990 Readings and Research (1-3 credits)
ALNU 6012 Concept Development in Nursing Practice II (3 credits)
ALNU 6015 Pharmacology and Therapeutics for Older Adults (1 credit)
ALNU 6016 Dissertation Seminar (1 credit)
ALNU 6090 Doctoral Dissertation (1-12 credits)
ALNU 6960 Readings and 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 3530 Religion in Appalachia (3 credits)—This course will survey the diversity of religions in Appalachia both historically and currently.

APST 4337/5337 Appalachia in Scotland (3 credits)—This course will survey the relationship among Appalachian, Scottish, and Irish cultures, with an emphasis on Scotland and Ireland.
APST 4567/5567 Scottish Ethnicity (3 credits)—A survey of Scottish ethnic and regional groups and their folk traditions. Topics covered include life history, material culture, subsistence patterns, folk narrative, and beliefs and customs.

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

APST 4997/5997 Current Issues in Appalachian Studies (3 credits)—Seminar surveying major issues and concerns in Appalachian Studies since the 1970s. Required for Appalachian Studies minor.

**Art and Design**

**ARTA**

(ARTH effective Spring 2007)

**ARTA 1110 2-D Design (3 credits)**—A fundamental exploration of the elements of two-dimensional art (line, shape, texture, value, and color) and their relationship to the principles of design (balance, rhythm, variety, and unity). Stress is placed on visual thinking through the use of problem-solving structures.

**ARTA 1140 3-D Design (3 credits)**—An examination of three-dimensional design forms in order to gain a deeper understanding of the elements and principles of design. An exploration of a variety of media, processes, and applications of three-dimensional work.

**ARTA 1201 Drawing Fundamentals (3 credits)**—An introductory drawing course based primarily on direct observation techniques, analysis, basic pictorial composition, and spatial organization. An exploration of a variety of subject matter, media, processes, and attitudes as related to drawing and the visual arts.

**ARTA 1204 Color Theory (3 credits)**—Prerequisite(s): A RTA 1110 or A RTA 1201; or permission of instructor. An introduction to the basic principles of color theory as related to the visual arts to include both additive and subtractive color systems. An exploration of a variety of media and processes which stresses the use of a problem-solving structure.

**ARTA/ARTH 2010 Art History Survey I (3 credits)**—A survey of architecture, painting, sculpture, and the minor arts in the Western world from prehistoric times to the end of the Middle Ages.

**ARTA 2012 Intermediate Drawing (3 credits)**—Prerequisite(s): A RTA 1110, A RTA 1140, A RTA 1201, A RTA 1204, or permission of the instructor. A course based on the observation of various subject matters and their representation through various drawing materials. Emphasis on colored drawing and more complex pictorial and spatial problems. Nonobjective and abstract problems will be included. Development of individual responses will be encouraged.

**ARTA/ARTH 2020 Art History Survey II (3 credits)**—A survey of architecture, sculpture, and painting in the Western world from the Italian Renaissance to the present.

**ARTA 2051 Foundations in Painting (3 credits)**—Prerequisite(s): A RTA 1110, A RTA 1140, A RTA 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(s): A RTA 1140 or permission of instructor. Basic techniques and concepts of jewelry design and construction.

**ARTA 2091 Introduction to Ceramics (3 credits)**—Prerequisite(s): A RTA 1110, A RTA 1140, or permission of the instructor. Beginning ceramics. This is an introductory course. Concentration on hand-forming processes and basic information about clays, glazes, and firing.

**ARTA 2120 Basic Figure Drawing (3 credits)**—Prerequisite(s): A RTA 1110, A RTA 1140, A RTA 1201, A RTA 1204, or permission of instructor. An introductory course in drawing in human figure to emphasize observation, proportion, and a more intuitive approach to human anatomy. Students will work directly from the skeleton and models to analyze the figure and explore a variety of media and pictorial problems.

**ARTA 2200 Basic Photography (3 credits)**—Introductory course in black and white photography. The course will cover basic photographic techniques and darkroom procedures from the taking of the picture to the finished print. Each student should have a camera that can be used in the course.

**ARTA 2210 Introductory Printmaking (3 credits)**—Prerequisite(s): A RTA 1110, A RTA 1201, and A RTA 1204. A survey of printmaking, materials, and relief and screen processes with emphasis on the visual quality of the work produced.

**ARTA 2401 Commercial Art (3 credits)**—Prerequisite(s): A RTA 1110, A RTA 1140, or permission of instructor. An introductory studio course in the design and reproduction of commercial art and visual communications.

**ARTA 2501 Introduction to Sculpture (3 credits)**—Prerequisite(s): A RTA 1140. An introduction to sculptural techniques and concepts, including figure study, abstraction, work with clay, wood, plaster, mixed media, and site-specific sculpture. Slide lectures covering historical and contemporary approaches to sculpture will be an ongoing component.

**ARTA 2916 Works in Progress Review (0 credit)**—Prerequisite(s): Completion of 35 credit hours in art. Students pursuing the BFA degree (Bachelor of Fine Arts) must complete a portfolio review prior to acceptance in the BFA program and completion of the degree requirements. Review of portfolio work will be completed by a committee of faculty members from within the department. Date and time for the individual review will be announced each semester. Students must complete the review after accumulating 36 art credits and before accumulating 45 art credits.

**ARTA 2957 Topics in Art (1-6 credits)**

**ARTA 2989 Cooperative Education (1-3 credits)**

**ARTA 3010 Advanced Drawing (3 credits)**—Prerequisite(s): A RTA 2012, A RTA 2020, or permission of instructor. A visual investigation of advanced concepts in drawing with further exploration of traditional and nontraditional subject matter and materials. Students will work toward thematic development through small series and will be encouraged to develop personal iconography.

**ARTA 3071 Intermediate Weaving II (3 credits)**—Prerequisite(s): A RTA 2071 or by permission of instructor. A study of intermediate multi-harness weaving techniques to include complex pattern weaves, twills, and doubleweave. Focus on functional or fine art application while emphasizing technical skill and craftsmanship, experimentation, color, and design.

**ARTA 3072 Intermediate Weaving III (3 credits)**—Prerequisite(s): A RTA 2071 and A RTA 3071; or by permission of the instructor. This course explores the image-making potential of the woven textile including inlay, tapestry, and brocade. Painted and ikat-dyed advanced considerations of color, design, construction, and finishing techniques.

**ARTA 3073 Fiber Construction (3 credits)**—Off-loom textile processes explore three-dimensional form in fiber using traditional and non-conventional materials. Emphasis on the development of technical skills, form, and concept.

**ARTA 3081, 3082 Jewelry and Metalsmithing (3 credits)**—Prerequisite(s): A RTA 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(s): A RTA 3091. An intermediate course in ceramics. Forming techniques will be used in combination. There will be lectures on clays, glazes, and firing techniques.
ARTA 3110 Intermediate Painting (3 credits)—Prerequisite(s): A RTA 2051 or permission of the instructor. A course that concentrates on building color relationships and visual clarity.
ARTA 3120 Life Painting (3 credits)—Prerequisite(s): A RTA 2051, A RTA 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 2201 Intermediate Figure Drawing (3 credits)—Prerequisite(s): A RTA 2120 or permission of the instructor. An additional exploration of the figure and its expressive potential with advanced analysis of human anatomy including musculature and surface features. Ink and color drawing will be emphasized along with expanded problem solving.
ARTA 3211 Lithography (3 credits repeatable)—Prerequisite(s): A RTA 2210. An exploration of direct lithographic printing as an artists' medium.
ARTA 3221 Screen Process (3 credits repeatable)—Prerequisite(s): A RTA 2210. An exploration of screen-process printing as an artists' medium.
ARTA 3301 Intaglio (3 credits repeatable)—Prerequisite(s): A RTA 2210. An exploration of the intaglio process as an artists' medium.
ARTA 3321 Art Experiences with Children (3 credits)—Prerequisite(s): A ll freshmen and sophomore required art courses. A course for curriculum “S” art majors and minors and/or qualified elementary education majors. Two credits per week will be spent guiding children in art experience. Weekly seminars and studio sessions will be required for those enrolled.
ARTA 3341 Relief (3 credits repeatable)—An exploration of the relief printing process as an artists' medium.
ARTA 3380 Natural and Chemical Dyeing (3 credits)—Prerequisite(s): A RTA 1204. An investigation of dye color applications to fiber and fabric using natural and chemical dyes with cellulose and protein fibers. Emphasis on the development of technical skills and color. Course repeatable for credit.
ARTA 3401 Typography (3 credits)—The design and use of typographic material.
ARTA 3402 Commercial Art (3 credits)—Prerequisite(s): A RTA 2401 and A RTA 3401. A studio course devoted to the design and preparation of two-dimensional materials for commercial reproduction.
ARTA/ARTH 3403 History of Graphic Design—A survey of visual communication/graphic design from prehistory through current graphic design methods, styles, and industry-leading designers.
ARTA 3501 Intermediate Sculpture (3-9 repeatable)—Prerequisite(s): A RTA 2501. Continued development of sculptural techniques and concepts, including metal fabrication and casting, stone carving, and work of the student's choice. Students will complete several projects.
ARTA 3502 Intermediate Sculpture (3-9 repeatable)—Prerequisite(s): A RTA 2501. Continued development of sculptural techniques and concepts. Students will complete several projects.
ARTA 3601 Intermediate Photography (3-9 repeatable)—Prerequisite(s): A RTA 2200 or permission of instructor. Projects in black and white photography above the basic level, concerning natural lighting, darkroom, composition, camera and lens, processing, and special effects. The emphasis is on visual communication.
ARTA 3602 Color Photography (3-9 repeatable)—Prerequisite(s): A RTA 2200 or permission of instructor. Projects in color transparency and color print materials concerning learning the technical and aesthetic aspects of the photographic color medium. Students will do all their own processing with total control as the goal.
ARTA 3603 Alternate Photographic Processes (3-9 repeatable)—Prerequisite(s): A RTA 2200 or permission of instructor. Emphasis on the design elements in photography. Experience in high contrast materials, solarization, and print manipulation, as well as non-silver materials. Emphasis on exploration of the creative possibilities of the medium.
ARTA 3989 Cooperative Education (1-3 credits)
ARTA 4002 Graphic Design (3-9 repeatable)—Prerequisite(s): A RTA 2401. A studio course devoted to the design and preparation of two-dimensional material for reproduction.
ARTA/ARTH 4017/5017 Classical Art (3 credits)—A survey of the arts of Greece and Rome. Offered in alternate years.
ARTA/ARTH 4018 Honors Thesis (3-6 credits)—Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.
ARTA/ARTH 4027/5027 Art History of the Middle Ages (3 credits)—A survey of European architecture, sculpture, and painting from Late Antiquity to the end of the Gothic period. Offered in alternate years.
ARTA/ARTH 4037/5037 Art History of the Renaissance Period (3 credits)—A survey of European art from 1300 to 1600 with emphasis on Italian and Flemish art. Offered in alternate years.
ARTA/ARTH 4047/5047 Art History of the Baroque Period (3 credits)—A survey of the major styles of European art from 1600 to 1750: Baroque, Classicism, Realism, and Rococo. Offered in alternate years.
ARTA/ARTH 4057/5057 Art History of the 19th Century (3 credits)—A survey of the major styles and trends in art from Neoclassicism to Postimpressionism. Offered in alternate years.
ARTA/ARTH 4067/5067 Twentieth Century Art (3 credits)—Major developments in painting and sculpture from Postimpressionism through Surrealism. Offered in alternate years.
ARTA 4071 Advanced Weaving II (3-9 repeatable)—Prerequisite(s): A RTA 2071, A RTA 3071 and A RTA 3072; or by permission of the instructor. Students work independently while developing an individual direction. Technical, aesthetic, and conceptual input will be structured toward individual needs. Professional practices within the independent studio or for industry will be addressed.
ARTA 4072 Advanced Weaving III (3-9 repeatable)—Prerequisite(s): A RTA 2071, A RTA 3071, A RTA 3072, and A RTA 4071; or by permission of instructor. Students work independently while developing an individual direction. Technical, aesthetic, and conceptual input will be structured toward individual needs. Professional practices within the independent studio or for industry will be addressed.
ARTA 4073 Fabric Design (3-9 repeatable)—Prerequisite(s): A RTA 1204. An introduction to applied textile design. Hand-printed and dyeing techniques include stamping, block-printing, tie-dye/ shibori discharge, and other techniques to develop imagery and color/pattern relationships on fabric.
ARTA/ARTH 4077/5077 Contemporary Art (3 credits)—A survey of art since 1945.
ARTA 4081, 4082 Jewelry and Metalsmithing (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/ARTH 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/ARTH 4107/5107 Art Study Tour (1-3 credits, variable)—This course is designed to acquaint the student with original works of art. The lecture series is followed by a trip to selected museums in the United States and/or Europe.

ARTA 4110 Combined Media Painting (3 credits)—Prerequisite(s): ARTA 2051, ARTA 3110, ARTA 3120, or permission of the instructor. Painterly approaches to alternative methods and techniques in image-making. A focus on concept, visual communication, and craftsmanship. (Course Repeatable for Credit.)

ARTA 4120 Figure Painting (3 credits)—Prerequisite(s): ARTA 2051, ARTA 3110, ARTA 3120, ARTA 2120 or permission of the instructor. A studio course in oil painting utilizing traditional, as well as contemporary, approaches to the human figure. (Course Repeatable for Credit.)

ARTA 4201 Advanced Figure Drawing (3-9 repeatable)—Prerequisite(s): ARTA 2120 and ARTA 3201; or permission of the instructor. An advanced course in the study of the human form. Emphasis is placed on individual expressive content using the figure as a point of departure.

ARTA 4202 Mixed Media Drawing (3-9 repeatable)—Prerequisite(s): ARTA 2120 or ARTA 2121; and ARTA 3101; or permission of the instructor. A focus on alternative drawing methods and formats emphasizing combined media. Advanced studies in content and visual communication with special emphasis on contemporary drawing directions.

ARTA 4211 Advanced Lithography (3 credits repeatable)—Prerequisite(s): ARTA 2210. Advanced studio work in direct lithographic printing.

ARTA 4217/5217 Book Arts (3 credits)—A course exploring adhesive and nonadhesive book formats. Emphasis is placed on a book as a complete format of cover, text, and image. Paper decoration, books as sculptural objects, and time-based directions will be addressed.

ARTA 4221 Advanced Screen Process Work (3 credits repeatable)—Prerequisite(s): ARTA 2210. Advanced studio work in screen-process printing.

ARTA 4271 Advanced Ceramics I (3 credits)—Prerequisite(s): ARTA 2091, ARTA 3091, ARTA 3092. Advanced class which will allow students to work on special problems and techniques on an individual basis. It will also include lectures on clay, glazes, and firing techniques.

ARTA 4272 Advanced Ceramics II (3 credits repeatable)—Prerequisite(s): ARTA 2091, ARTA 3091, ARTA 3092, and ARTA 4271. (A continuation of ARTA 4271) Emphasizing individual direction, expression, and work at an advanced level.

ARTA 4273 Technical Ceramics (3-9 repeatable)—Prerequisite(s): ARTA 2091 and, ARTA 3091. This course deals with the technical considerations of ceramics: clay, glazes, firing techniques, kilns, raw materials, testing, and special firings. It will be a lecture format course with lab work.

ARTA 4301 Displays and Package Design (3 credits)—Prerequisite(s): ARTA 3401, ARTA 3402, or permission of instructor. An advanced studio course in the design and preparation of three-dimensional material for commercial reproduction.

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

ARTA 4303 Computer Art and Design (3-9 repeatable)—Prerequisite(s): ARTA 2401, ARTA 3401, ARTA 3402, or permission of the instructor. An advanced studio course which focuses on the computer as a creative tool for visual communication problem-solving. Course emphasizes computer methods for solving graphic design problems and the development of computer skills in creating art, design, and illustration.

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

ARTA 4330 Elementary School Art (2-3 credits)—Required course for all elementary education majors. Should be taken in the junior year. ARTA 4330 is required of all students desiring certification in art. The courses include art media experiences and art appreciation.

ARTA 4401 Advanced Intaglio (3-9 repeatable)—Prerequisite(s): ARTA 2210. Advanced studio work in intaglio printing.

ARTA 4419 Teaching Art in Secondary Schools (3 credits)—A study of the aims, philosophy, and curricula of the secondary school art program based on an examination of available literature. Required for certification in art. No course substitutions. This course counts as education credit and cannot be used to meet the art course requirement for a minor or major in art. At the beginning of the course the student will submit a portfolio of his/her art works to the art education faculty for review.

ARTA 4501 Advanced Sculpture (3-9 repeatable)—Prerequisite(s): ARTA 3501 or ARTA 3502. Students develop work on an individual basis, working on specific problems and processes developed in consultation with the instructor. Both creative thinking and technical skills will be emphasized.

ARTA 4502 Advanced Sculpture (3-9 repeatable)—Prerequisite(s): ARTA 3501 or ARTA 3502. Continued advanced work in sculpture, emphasizing personal direction and self-motivation in sculpture, both technically and conceptually.

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

ARTA 4602 View Camera Photography (3-9 repeatable)—Prerequisite(s): ARTA 3601 or permission of instructor. An advanced course using 4 x 5 or 8 x 10 view cameras, furnished to students enrolling in this course for its duration, concerning techniques, the zone system, and development of professional quality.

ARTA 4603 Introduction to Studio Photography (3-9 repeatable)—Prerequisite(s): ARTA 2200, ARTA 3601, or permission of instructor. Basic studio lighting techniques. Projects concerning portrait, fashion, and product lighting. Work toward professional quality.

ARTA/ARTH 4901-02 Independent Study in Sculpture (1-6 repeatable)—Prerequisite(s): ARTA 3502 or ARTA 3502. Independent Studies in studio printmaking, photography, metalsmithing, jewelry design, ceramics, sculpture, weaving, drawing, painting, graphic design, art history, art education, and internship in premed illustration.

ARTA 4912 Independent Studies in Photography (1-6 credits repeatable)

ARTA 4915 Independent Studies in Weaving (1-6 credits repeatable)

ARTA 4916 Portfolio and Exhibit (1-3 credits variable)—Prerequisite(s): ARTA 2916. The B.F.A. student takes this course in the last semester before graduation. The course is designed to allow the student to prepare a portfolio for the job market and to prepare work for the final required undergraduate B.F.A. exhibition in the department gallery. Students will take this course with a professor in the area of concentration, and provide the Art Department with slides of their exhibition materials.

ARTA/ARTH 4957/5957 Special Topics in Art (1-6 credits)

ARTA 4989 Cooperative Education (1-3 credits)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

ARTA 5061 Metalsmithing and Jewelry Design ..................................................... (1-6 credits repeatable)
ARTA 5110 Ceramics ........................................................................................................... (1-6 credits repeatable)
ARTA 5130 Painting .......................................................................................................... (1-6 credits repeatable)
ARTA 5140 Photography ................................................................................................. (1-6 credits repeatable)
ARTA 5160 Sculpture ........................................................................................................... (1-6 credits repeatable)
ARTA 5170 Fibers ................................................................................................................ (1-6 credits repeatable)
ARTA 5200 Drawing .......................................................................................................... (1-6 credits repeatable)
ARTA 5220 Field Experience in Art Education ............................................................... (3 credits)
ARTA 5330 Elementary School ......................................................................................... (3 credits)
ASTR 1010 Astronomy I (4 credits)—An introductory course which includes historical astronomy, celestial motions, properties and observation of light, and physical characteristics of the solar system and the sun. Includes laboratory activities involving telescope observations of solar system and stellar objects. Designed for students desiring a laboratory science for its general education value. Three credits lecture, two credits laboratory each week.

ASTR 1020 Astronomy II (4 credits)—Introduces students to the study of stars, galaxies, and the universe as a whole. Includes laboratory activities involving telescope observations of star systems, nebulae, and galaxies. Three credits lecture, two credits laboratory each week.

ASTR 1035 Life in the Universe (4 credits)—Explores the possibility of life elsewhere in the Universe, including the origin and evolution of life on earth, life elsewhere in our solar system, recent discoveries of extrasolar planets, and advanced civilizations elsewhere in the galaxy. Also includes topics in interstellar communication, space travel, and UFOs.

ASTR 3415 Astrophysics (3 credits)—Prerequisite(s): PHYS 2110, PHYS 2120, or permission of instructor. Astrophysics covers the theoretical basis of what we know about the Universe around us. Topics include stellar atmospheres and spectra, stellar interiors, nuclear physics, stellar evolution, and the HR diagram, and galactic structure. Galaxies: morphology and evolution; Cosmology: Hubble's law, the Big Bang theory, general relativity, and the history of the Universe.

ASTR 3970 Variable Stars (2 credits)—Prerequisite(s): ASTR 1010 and ASTR 1020; Corequisite(s): Permission of the instructor. A hands-on laboratory course on variable stars. Students will make approximately weekly observations of variable stars using the 14-inch Celestron telescope at the Harry D. Powell Observatory. Observations will be analyzed and light curve derived. Final data will be submitted to public archives for possible future use by astronomers around the world.

Business Administration

BADM 1130 Introduction to Business (3 credits)—Prerequisite(s): Open only to lower division students. This course is designed to provide an overview of business operations, the role of business in society, the ethical issues in business, and the various disciplines within a business organization. Guidance to first-year university students as they begin their academic work through coverage of lifestyle issues, career planning, and other relevant topics is provided.

General Studies

BASD 3210 Professional Field Experience (3 credits)—Required of all B.G.S. and B.S.P.S. students. Doctor's approval required; junior standing. The purpose of this course is to increase the student's knowledge in a particular personal or career-related area through a practical learning experience or internship. This must be a new learning experience by the student and submitted in the form of a culminating project.
BSIS

BSIS 4210 Professional Field Experience (3 credits)— Required of all B.S.I.S. students; Chair's approval required; junior standing. The purpose of this course is to increase the student's knowledge in a particular personal or career-related area through a practical learning experience or internship. This must be a new learning experience by the student and submitted in the form of a culminating project.

BSPS

BSPS 4210 Professional Field Experience (3 credits)— Required of all B.S.P.S. students; Chair's approval required; senior standing. The purpose is to increase the student's knowledge in a particular personal or career-related area through a practical learning experience or internship. This must be new learning by the student and submitted in the form of a culminating project.

Biological Sciences

BIOL

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. E elective credit only. Does not apply toward the major or minor requirements.

BIOL 1010 Biology for Non-majors I (4 credits)— Corequisite(s): BIOL 1011. A biology course with laboratory experience in general education. The role of biology in today's society, with an emphasis on current issues in ecology, evolution, and behavior. Three (3) hours of lecture and two hours of lab. A common grade will be given in BIOL 1010/11. Fall, Spring

BIOL 1011 Biology for Non-majors Laboratory (0 credit)— Corequisite(s): BIOL 1010. Laboratory exercises corresponding to Biology for Non-majors I. One (2) two-hour lab per week. Students must register for BIOL 1010. A common grade will be given in BIOL 1010/11. Fall, Spring

BIOL 1020 Biology for Non-majors II (4 credits)— Corequisite(s): BIOL 1010. A biology course with laboratory experience in general education. The role of biology in today's society, with an emphasis on current issues in reproduction, growth, genetics, and biotechnology. Three (3) hours of lecture and two hours of lab per week. Students must register for BIOL 1021. A common grade will be given in BIOL 1020/21. Fall, Spring

BIOL 1021 Biology for Non-majors Laboratory II (0 credit)— Corequisite(s): BIOL 1020. Laboratory exercises corresponding to Biology for Non-majors II. 1 two-hour lab per week. Students must register for BIOL 1020. A common grade will be given in BIOL 1020/1021. Fall, Spring

BIOL 1110 Biology for Science Majors Lecture 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 (3) hours of lecture and two hours of lab. A common grade will be given in BIOL 1110/11. Fall, Spring

BIOL 1111 Biology for Science Majors Lab I (0 credit)— Corequisite(s): BIOL 1110. Laboratory exercises to gain the ability to identify and use the processes of biological science with materials corresponding to Biology for Science Majors Lecture I. One (2) two-hour lab per week. Students must register for BIOL 1111. A common grade will be given in BIOL 1110/11. Fall, Spring

BIOL 1120 Biology for Science Majors Lecture II (4 credits)— Prerequisite(s): BIOL 1110; Corequisite(s): BIOL 1121. Principles of organismal biology, including structure and function of multicellular organisms, especially chordate animals, and flowering plants. Designed for biology majors, minors, and others who plan to take upper-level courses for which this is a prerequisite. Three hours lecture and two hours of lab per week.

BIOL 1121 Biology for Science Majors Lab II (0 credit)— Corequisite(s): BIOL 1120. Laboratory exercises to gain the ability to identify and use the processes of biological science with materials corresponding to Biology for Science Majors Lecture II. One (2) two-hour lab per week. Students must register for BIOL 1121. A common grade will be given in BIOL 1120/21. Fall, Spring

BIOL 1130 Biology for Science Majors Lecture III (4 credits)— Prerequisite(s): BIOL 1110; Corequisite(s): BIOL 1131. Principles of population biology including taxonomy and systematics, evolutionary processes, the phylogenetic history of life on earth, and ecological relationships. Designed for biology majors, minors, and others who plan to take upper-level courses for which this is a prerequisite. Three hours lecture and two hours of lab per week. A common grade will be given. Fall, Spring

BIOL 1131 Biology for Science Majors Lab III (0 credit)— Corequisite(s): BIOL 1130. Laboratory exercises to gain the ability to identify and use the processes of biological science with materials corresponding to Biology for Science Majors Lecture III. One (2) two-hour lab per week. Students must register for BIOL 1130. A common grade will be given in BIOL 1130/31. Fall, Spring

BIOL 2999 Cooperative Education (1-3 credits)— Fall, Spring

BIOL 3100 General Genetics (3 credits)— Prerequisite(s): BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent; plus MATH 1530 or MATH 1910. The mechanisms of genetic transmission involving the chromosome theory of inheritance, linkage, recombination and mapping, chromosomal modifications and evolution, the organization of the hereditary material and the nature of gene action, mutation, population genetics, and statistical analysis. Three (3) hours lecture. (See optional BIOL 3141.) Spring

BIOL 3141 Genetics Laboratory (2 credits)— Prerequisite(s) or Corequisite(s): A course in genetics. Laboratory experiences designed to demonstrate basic genetic mechanisms including patterns of transmission, recombination, regulation, and the nature of the nucleic acids. Two (2) hour labs per week. Spring

BIOL 3150 Cell Biology (3 credits)— Prerequisite(s): BIOL 3100 plus one (1) year general chemistry; organic chemistry recommended. A study of structural and functional relationships in the eukaryotic cell. Two (2) hours lecture, one (1) hour oral component. Fall

BIOL 3151 Cell Biology Laboratory (2 credits)— Prerequisite(s) or Corequisite(s): BIOL 3150 or equivalent. Laboratory exercises demonstrating cell structure and function. Two (2) hour labs per week. Fall

BIOL 3220 Comparative Anatomy (4 credits)— Prerequisite(s): BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent. Comparisons of structure and development of representative vertebrate systems. Three hours lecture and 2 three-hour laboratories per week. Fall

BIOL 3230 Vertebrate Embryology (4 credits)— Prerequisite(s): BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent. Development of vertebrate embryos. Laboratory work based on representative organisms. Two hours lecture and (2) two-hour labs per week. Spring

BIOL 3260 Animal Physiology (4 credits)— Prerequisite(s): BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent; plus one year general chemistry. An introductory course in general and comparative physiology dealing with physical and chemical processes in animals. Two hours lecture and (2) two-hour labs per week. Spring

BIOL 3350 Ecology (4 credits)— Prerequisite(s): BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent. An introduction to the principles of ecology with emphasis on interspecific and organismal-environmental relationships as they affect the size, development, distribution, and structure of populations, communities, and ecosystems. Three hours lecture and one (2) two-hour lab per week. Fall

BIOL 3410 Vertebrate Zoology (4 credits)— Prerequisite(s): BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent. Biology, collection,
East Tennessee State University

A capstone experience serving as the culmination of an honors curriculum.

BIOL 4018 Honors Thesis (3-6 credits) — Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

BIOL 4037/5037 Coastal Biology Field Trip (1 credit) — Prerequisite(s): BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent; and permission of instructor. Intensive field survey of the coastal flora and fauna. Course may be repeated for credit with limit of one (1) credit toward major. (Extra fees.) Fall

BIOL 4047/5047 Ecological Field Trip (3 credits) — Prerequisite(s): BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent; and permission of instructor. An extended field-oriented ecology course (approximately three weeks camping) to outstanding biomes of North America, i.e., deserts, alpine tundra, boreal forest and prairies, involving field instruction, specimen collection, identification of organisms in their natural habitats. Some pretrip and post-trip classroom sessions. Course can be repeated for credit with limit of three credits toward degree. (Extra fees.) Summer

BIOL 4147/5147 Biochemistry of Macromolecules (3 credits) — Prerequisite(s): BIOL 1110 and one year of organic chemistry; or equivalent. Topics include cellular organization; pH and buffering; energy changes in molecular interactions; structure and characteristics of amino acids and proteins; structure/function relationships of enzymes, carbohydrates, lipids, and nucleic acids; and the production, structure, and function of nucleic acids. Three hours lecture per week. Fall

BIOL 4157/5157 Biochemistry of Macromolecules Lab (2 credits) — Prerequisite(s) or Corequisite(s): BIOL 4147/5147, or equivalent. The theory and use of lab instruments and techniques will be introduced through a series of experiments designed to explore buffering, enzyme isolation and characterization, and DNA isolation and characterization. Experiment planning and interpretation of data generated by the students will culminate in journal-style reports. One four-hour lab per week. Fall

BIOL 4167/5167 Biochemistry of Metabolism (3 credits) — Prerequisite(s): BIOL 1110 and one year of organic chemistry; or equivalent. The metabolism of carbohydrates, lipids, amino acids, and nucleotides will be covered with emphasis on reactions, enzymes, energy changes, pathway regulation, and pathway integration. Production of energy-rich molecules in the cell will be linked to important cellular functions (i.e., biosynthesis, movement, and transport). Three hours lecture per week. Spring

BIOL 4177/5177 Biochemistry of Metabolism Lab (2 credits) — Prerequisite(s) or Corequisite(s): BIOL 4167/5167 or BIOL 4147/5147; or equivalent. The theory and use of lab instruments and techniques will be introduced through a series of experiments designed to investigate photosynthesis, electron transport, polymerase chain reactions, and enzyme kinetics. Experiment planning and interpretation of data generated by the students will culminate in journal-style reports. One four-hour lab per week. Spring

BIOL 4247/5247 Appalachian Flora (3 credits) — Prerequisite(s): BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent; or permission of the instructor. Field and laboratory identification and ecology of plants of the Southern Appalachian environs. Sixteen hours Lecture and labs/field per week. Summer

BIOL 4257/5257 Appalachian Fauna (3 credits) — Prerequisite(s): BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent; or permission of the instructor. Field and laboratory identification and ecology of the animals of the Southern Appalachian environs. Sixteen hours Lecture and labs/field per week. Summer

BIOL 4267/5267 Plant Development (4 credits) — Prerequisite(s): BIOL 3100 or permission of instructor. Pattern of plant development from zygote or spore to mature plant. Emphasis on cell and tissue differentiation, organogenesis, and the influence of growth regulators. In the laboratory, students will observe morphogenesis and will design and undertake a project of their choice. Two hours lecture and four hours laboratory per week. Spring, odd years

BIOL 4277/5277 Neurobiology (4 credits) — Prerequisite(s): BIOL 1110/11, BIOL 1120/21, or equivalent. An introduction to the study of neurobiology. Topics include fundamentals of cellular communication (action potentials, synaptic transmission, synaptic integration), sensory systems, motor systems, the neural basis of behavior, developmental plasticity, and learning. Examples are drawn from invertebrates, as well as vertebrates. Four hours lecture per week. Fall

BIOL 4300 Seminar in Biology (2 credits) — Prerequisite(s): Permission of instructor. For senior biology majors and minors. Training and experience in oral presentation of recent developments in biology research. Spring

BIOL 4337/5337 Plant Systematics (4 credits) — Prerequisite(s): BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent. Flowering plant classification and evolution. Characteristics and methods of traditional plant taxonomy and computer-based phylogenetic methods using morphological and molecular data sets. Plants will be studied in field and lab. Students will use data collected from plant specimens and from GenBank to conduct phylogenetic analysis in various angiosperm groups. Two hours of lecture and four hours of laboratory per week. Fall semester, odd years

BIOL 4347/5347 Biogeography (2 credits) — Prerequisite(s): BIOL 1130 or equivalent; or permission of instructor. Global and regional patterns in the distribution, abundance, and variation of plants and animals related to geographic conditions and earth history. One two-hour lecture per week.

BIOL 4357/5357 Ethology (3 credits) — Prerequisite(s): BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent. An introduction to the study of animal behavior. Emphasis is placed on the ecology and evolution of behavioral patterns. Three hours lecture per week.

BIOL 4360 Evolution (3 credits) — Prerequisite(s): Completion of 20 credits in biological science courses. A survey of current topics related to the evolution of life on earth. Intended for senior biological sciences majors. One hour lecture and two hours discussion per week. Spring

BIOL 4367/5367 Systems Ecology (3 credits) — Prerequisite(s): BIOL 3350 or permission of instructor. Computer simulation modeling of ecological systems. Three hours lecture/discussion/workshop per week.
BIOL 4417 Teaching Biology in High School (3 credits)—
Prerequisite(s): Completion of 27 credits in biology and advisor approval. 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)—
Prerequisite(s): BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent. Principal taxa of land plants characterized and compared in terms of structural, functional, and reproductive adaptations. Two hours lecture and (2) two-hour labs per week. Spring

BIOL 4467/5467 Ichthyology (3 credits)—Prerequisite(s): BIOL 3410 or permission of instructor. An introduction to the methodology of field collection, preservation, and identification of fishes. Quantitative analysis and preparation of summary reports on field collections will be emphasized. Two (2) one-hour lectures and one three-hour lab per week. Spring

BIOL 4477/5477 Ornithology (4 credits)—Prerequisite(s): BIOL 3410 or permission of instructor. An introduction to the methodology of field identification, population censuses, seasonal diversity, and ecology of birds. One three-hour lecture and one three-hour lab per week. Spring

BIOL 4597/5597 Recombinant DNA Laboratory (3 credits)—
Prerequisite(s): BIOL 3100 or equivalent. Underlying ecological and population genetic forces governing the structure and dynamics of populations. Evaluation of current conservation strategies. Labs include field experiments on biodiversity, species monitoring strategies, field trips and use of population viability analysis. Two hours lecture, one hour discussion, and three hours laboratory per week. Fall, odd years

BIOL 4737/5737 Conservation Biology (4 credits)—Prerequisite(s): BIOL 3100 or equivalent. An exploration of mechanisms of genetic change in populations. Theoretical predictions and empirical evidence are considered. Emphasis on molecular-based methods. A combination of field and lab exercises. Three hours lecture and one three-hour lab per week. Fall, odd years

BIOL 4747/5747 Population Genetics (4 credits)—Prerequisite(s): BIOL 3100 or equivalent. An exploration of mechanisms of genetic change in populations. Theoretical predictions and empirical evidence are considered. Emphasis on molecular-based methods. A combination of field and lab exercises. Three hours lecture and one three-hour lab per week. Fall, odd years

BIOL 4757/5757 Developmental Biology (3 credits)—Prerequisite(s): BIOL 3230 or permission of instructor. A study of advanced topics in developmental biology such as the role of extracellular matrix and gene regulation on gametogenesis and embryogenesis. Two one-hour lectures and one (2) two-hour lab per week. Fall, odd years

BIOL 4767/5767 Plant Physiology (4 credits)—Prerequisite(s): BIOL 1110/11, BIOL 1120/21, BIOL 1130/31, or equivalent; and CHEM 2010. A course in plant physiology dealing with physical and chemical processes affecting the growth, metabolism, and reproduction of plants. Includes study of the highly developed and diverse responses of plants to their environment. Three hours lecture, one hour oral component per week. Spring, even years

BIOL 4857/5857 Aquatic Biology (3 credits)—Prerequisite(s): BIOL 3350 or permission of instructor. Field trips collection, identification, and ecology of freshwater plants and animals. One hour lecture and Two (2) hour labs per week.

BIOL 4867/5867 Marine Biology (4 credits)—Prerequisite(s): BIOL 1110/11, BIOL 1120/21, BIOL 1130/31 or equivalent. (BIOL 3460 recommended) Principles of marine biology with emphasis on habitats and ecological processes. Two hours lecture and (2) two-hour labs per week. Spring

BIOL 4900 Independent Studies (1-4 credits). Fall, Spring

BIOL 4910 Research in Biology (1-4 credits)—Prerequisite(s): Permission of the instructor. Independent directed research for the advanced student. Field of study to be determined by mutual consent of the student and faculty advisor. Fall, Spring, Summer

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)—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 Prerequisite(s) see the Graduate Catalog

BIOL 5100 Topics in Cell and Molecular Biology ............................................... (3 credits)

BIOL 5200 Topics in Organismal Biology ............................................................... (3 credits)

BIOL 5300 Topics in Ecology and Evolution .......................................................... (3 credits)

BIOL 5400 Topics in Systematic Biology ................................................................. (3 credits)

BIOL 5500 Bibliographic Research ............................................................................. (1 credit)

BIOL 5700 Seminar .................................................................................................... (1 credit)

BIOL 5900 Independent Studies .................................................................................. (1-4 credits)

BIOL 5960 Thesis ........................................................................................................ (3 credits)

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

BIOL 5989-99 Cooperative Education ...................................................................... (1-3 credits)

Bluegrass, Old Time, and Country Music

BLUE

BLUE/SOAA 2150 American Folk Music (3 credits)—A multicultural survey of America’s diverse ethnic and regional traditions of folk music, how they have been revived and popularized in the 20th century, and their contributions to contemporary popular culture around the world.

BLUE 2240, 3240, 4240 Bluegrass Seminar I, II, and III (1 credit)—This course focuses on listening and performance skills; musical analysis; how to engage an audience musically, visually, and verbally; how to work as a full-time or part-time musician; and how to live one’s life as an artist.

BLUE 2310 Guitar I (Introductory) (1 credit)—A course for beginners, as well as those who have some playing experience. Basic flatpicked lead playing and accompaniment, with emphasis on clarity, smoothness, and solid rhythm; focus on folk, bluegrass, gospel, and country traditions.

The following are individual instruction courses, each of which is a flexibly designed course of study under the direction of an experienced musician. It provides an opportunity for the student to gain confidence with the fundamentals of the instrument and to develop musically.

BLUE 2410, 3410, 4410 Acoustic Guitar I, II, and III (1 credit)

BLUE 2420, 3420, 4420 Country Electric Guitar I, II, and III (1 credit)

BLUE 2430, 3430, 4430 Mandolin I, II, and III (1 credit)

BLUE 2440, 3440, 4440 Bluegrass Banjo I, II, and III (1 credit)

BLUE 2450, 3450, 4450 Old Time Banjo I, II, and III (1 credit)

BLUE 2460, 3460, 4460 Bluegrass Fiddle I, II, and III (1 credit)

BLUE 2470, 3470, 4470 Old Time Fiddle I, II, and III (1 credit)

BLUE 2480, 3480, 4480 Dobro I, II, and III (1 credit)

BLUE 2490, 3490, 4490 Acoustic BASS I, II, and III (1 credit)

BLUE 2510, 3510, 4510 Bluegrass Band I, II, and III (1 credit)—A flexibly designed course of study under the direction of an experienced musician and band leader with focus on individual instrumentation and ensemble performance.
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BLUE 2520, 3520, 4520 Old Time String Band I, II, and III (1 credit)—A flexibly designed course of study under the direction of an experienced musician and band leader with focus on individual instrumentation and ensemble performance.

BLUE 2530, 3530, 4530 Country Band I, II, III (1 credit)—A flexibly designed course of study under the direction of an experienced musician and band leader with focus on individual instrumentation and ensemble performance.

BLUE 3110 Introduction to Bluegrass Music (3 credits)—An introductory study of the principal figures in bluegrass music, their lives, times, and music.

BLUE 3120 Country Music Then and Now (3 credits)—A study of the history of country music including genres of country music; impact of country music traditions on other music; history of country music in America; country music outside the United States.

BLUE 3320 Guitar II (Intermediate) (1 credit)—For students who have completed Guitar I and those who play at an equivalent or higher level. An expansion of skills developed in BLUE 2310-Guitar I, with an introduction to Doc Watson-style crosspicking and Merle Travis-style fingerpicking.

BLUE 4130 Survey of Contemporary Bluegrass (3 credits)—An overview of the diverse musical forms that make up contemporary bluegrass music, with an emphasis on the lasting contributions of significant artists and the trend between traditional and exploratory approaches.

BLUE 4147/5147 Bluegrass and America's Music (3 credits)—The musical and commercial interaction between bluegrass and American Folk music, jazz, pop, gospel, blues, rock, and classical traditions.

BLUE 4150 Roots of Bluegrass Music (3 credits)—An exploration of the diverse musical genres preceding the emergence of bluegrass music, which serves as the building block for the structure of bluegrass music.

BLUE 4167/5167 Bluegrass—The First Generation (3 credits)—A study of the musicians and the innovations that shaped the structure on which today's bluegrass is built.

BLUE 4210 Music Theory for Acoustic Players (3 credits)—Chord construction, harmonies, scales, transposition, etc. in a laboratory setting. Reading standard music notation, while included, is not a prerequisite.

BLUE 4220 Bluegrass Harmony Part Singing (3 credits)—A study of bluegrass harmony singing, chord structure, and theory, emphasizing learning intervals, numbers, and elementary ear training.

BLUE 4230 Songwriting (1-3 credits)—Students will create original songs under the tutelage of a songwriter with professional credentials.

BLUE 4510 Bluegrass Band III (1 credit)

BLUE 4520 Old Time String Band III (1 credit)

BLUE 4900 Independent Study (1-3 credits)

BLUE 4957/5957 Special Topics (1-6 credits)

Communicative Disorders

CDIS 4000 Communication Sciences and Disorders (3 credits)—An introduction to the professions of audiology and speech-language pathology providing an overview of communication sciences and normal communicative processes contrasted with disorders of speech, language, and hearing.

CDIS 4017/5017 Speech and Hearing Science I (4 credits)—A study of the basic 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 4027/5027 Speech and Hearing Science II (4 credits)—Prerequisite(s): CDIS 4010. A study of the physiologic acoustics of the auditory periphery, neurophysiology of the speech and hearing systems, and an introduction to research tools in speech and hearing science. The laboratory portion of the course provides interactive demonstrations pertaining to the physiologic acoustics of the auditory periphery, neurophysiology of the speech and hearing systems, and an introduction to instrumentation used in speech and hearing science.

CDIS 4060 Language Development (3 credits)—Prerequisite(s): CDIS 4000 and CDIS 4010. A study of the psycholinguistic aspects of language including cultural influences, the complex nature of language, the language-learning process, and the strategies involved in analyzing normal child communication.

CDIS 4200 The Clinical Process (3 credits)—Prerequisite(s): CDIS 4000. A lecture-discussion-demonstration course which includes supervised observation of the evaluation and treatment of children and adults with disorders of speech, language, and/or hearing, as well as information related to clinical procedures and reports.

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog
Chemistry 

CHEM 1000 Chemistry and Well-Being (4 credits)—A terminal semester course designed to fulfill the General Education core requirement for a laboratory science course for non-science majors. The course will include discussions of chemistry and its relevance in society and our individual well-being. It will explore the role chemical science plays in understanding environmental issues, nutrition and health, drugs, medicine, genetic engineering, modern materials, energy sources, and other chemical technological progress important to our standard of living. Experimental projects to be done inside or outside of the classroom setting are included. These experiments are designed to illustrate and explore the principles/concepts and applications of chemistry.

CHEM 1030 Introduction to Chemistry Survey (4 credits)—This course, designed for the non-science major, presents an interdisciplinary approach to the basic principles of chemistry. The importance of chemistry in today's society, its relevance to many environmental questions, and other current issues involving chemistry will be emphasized. Three (3) hours of lecture and one (1) hour of lab/discussion per week.

CHEM 1110-20 General Chemistry Lecture (4 credits ea.)—Corequisite(s): CHEM 1111/21. The basic course for students who expect to major in chemistry, as well as those who wish to meet entrance requirements of professional schools. Three (3) hours of lecture-recitation per week. A common grade will be given.

CHEM 1111-21 General Chemistry Laboratory (0 credit)—Corequisite(s): CHEM 1110/20. One (3) three-hour lab per week. A common grade will be given.

CHEM 2220 Quantitative Analysis Lecture (2 credits)—Prerequisite(s): CHEM 1120/21; Corequisite(s): CHEM 2221. Quantitative treatment of equilibria. Introduction to statistical treatment of data, spectroscopy, and instrumental methods of analysis. Two hours of lecture per week.

CHEM 2221 Quantitative Analysis Laboratory (2 credits)—Corequisite(s): CHEM 2220. (Laboratory to accompany CHEM 2220) One (4) four-hour lab period per week.

CHEM 2010/20 Organic Chemistry Lecture (3 credits)—Prerequisite(s): CHEM 1120/21; Corequisite(s): CHEM 2011/21. The basic course in the study of compounds of carbon. Three (3) hours of lecture per week. Must be taken in proper sequence.

CHEM 2011/21 Organic Chemistry Laboratory (2 credits ea.)—Corequisite(s): CHEM 2010/20. (Laboratory to accompany CHEM 2010/20). One (4) four-hour lab period per week. Must be taken in proper sequence.

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

CHEM 3110 Descriptive Inorganic Chemistry (3 credits)—Prerequisite(s): CHEM 1120/21. A study of properties and reactions of inorganic compounds with emphasis on trends in the Periodic Table. Three (3) hours of lecture-recitation per week.

CHEM 3611 Introductory Integrated Laboratory (2 credits)—Corequisite(s): CHEM 3710 or CHEM 3750. Introduction to advanced chemistry laboratory techniques with emphasis on physical-chemical measurements. Includes data handling, report writing, and work with classical and instrumental methods. One (4) four-hour lab period per week.

CHEM 3710 Principles of Physical Chemistry Lecture (3 credits)—Prerequisite(s): CHEM 2220/21; Prerequisite(s) or Corequisite(s): CHEM 1010 and General Physics; Corequisite(s): CHEM 3611. A brief physical chemistry course for the Chemistry Concentration program, with a life science emphasis. Three (3) hours of lecture per week.

CHEM 3750-60 Physical Chemistry (3 credits)—Prerequisite(s): Physics and Calculus. Prerequisite(s) or Corequisite(s): CHEM 2010/11, CHEM 2220/21 Corequisite(s): CHEM 4611, CHEM 4621, or CHEM 4631. Physical chemistry for those planning a career in the field of chemistry. Elements of thermodynamics, kinetics, and quantum chemistry. Three (3) hours of lecture per week.

CHEM 3989-99 Cooperative Education (3 credits)

CHEM 4010 Seminar in Chemistry (2 credits)—For senior chemistry majors and minors. Research reports by students, faculty, and invited outside speakers on recent advances in chemistry. May be repeated once for credit.

CHEM 4018 Honors Thesis (3-6 credits)—Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

CHEM 4110 Advanced Inorganic Chemistry Lecture (3 credits)—Prerequisite(s) or Corequisite(s): CHEM 3750/60. Principles of theoretical and descriptive inorganic chemistry. Three lecture-recitation hours per week.

CHEM 4200 Principles of Instrumental Analysis (3 credits)—Prerequisite(s): CHEM 2220/21. Theory, instrumentation, and application of spectral methods (UV-VIS, IR, RAMAN, AA, AE, NMR, MS, etc.), electroanalytical methods (potentiometry, voltammetry, etc.), and separation techniques (GC, HPLC, TLC, etc.). Three (3) hours of lecture per week.

CHEM 4611 Advanced Integrated Laboratory - Dynamics (2 credits)—Prerequisite(s): CHEM 3611. Advanced chemistry laboratory with emphasis on dynamic properties of chemical systems. Both classical and modern spectroscopic methods, such as UV-VIS, IR, and NMR, will be used. When possible, compounds will be synthesized by the student. One (4) four-hour lab period per week.

CHEM 4621 Advanced Integrated Laboratory - Structure (2 credits)—Prerequisite(s): CHEM 3611. Advanced chemistry laboratory with emphasis on structural analysis by modern instrumental techniques. When possible, compounds will be synthesized by the student. One (4) four-hour lab period per week.

CHEM 4817/5817 Introduction to Industrial Chemistry (3 credits)—Prerequisite(s): CHEM 2020/21. Engineering of chemical reactions, mass and energy balance, process development and control, polymer chemistry and industrial pollution.

CHEM 4900 Research in Chemistry (1-3 credits)—Prerequisite(s): Permission of the chair of the department. Independent, directed research for the advanced student. Field of study to be determined by mutual consent of the student and faculty advisor.

CHEM 4957/5957 Special Topics in Chemistry (3 credits)

CHEM 4989-99 Cooperative Education (3 credits)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

CHEM 5010 Seminar in Chemistry....................................................(1 credit)

CHEM 5110 Advanced Inorganic Chemistry I....................................(3 credits)

CHEM 5120 Advanced Inorganic Chemistry II.................................(3 credits)

CHEM 5142 Reaction Mechanisms of Coordination Compounds .......(3 credits)

CHEM 5210 Advanced Analytical Chemistry I .................................(3 credits)

CHEM 5220 Advanced Analytical Chemistry II ...............................(3 credits)

CHEM 5450 Advanced Laboratory in Chemistry ...............................(1-4 credits)

CHEM 5510 Advanced Organic Chemistry ........................................(3 credits)

CHEM 5541 Organic Reaction Mechanisms .....................................(3 credits)

CHEM 5710 Chemical Thermodynamics .........................................(3 credits)

CHEM 5741 Chemical Kinetics .....................................................(3 credits)

CHEM 5743 Quantum Chemistry ...................................................(3 credits)

CHEM 5950 Research in Chemistry ...............................................(1-2 credits)

CHEM 5960 Thesis in Chemistry ...................................................(1-4 credits)

CHEM 5989 Cooperative Education ..............................................(1-3 credits)

CHEM 5999 Cooperative Education ..............................................(1-3 credits)
CJCR 1100 Introduction to Criminal Justice (3 credits)—Conceptions of law and crime, the nature and extent of crime, and an overview of the interrelated criminal justice agencies.

CJCR 1200 Human Relations in Criminal Justice (3 credits)—An examination of models of human behavior, with particular emphasis on antecedents and conditions that affect personnel performance in criminal justice environments.

CJCR 1500 Criminal Investigation (3 credits)—Fundamentals of criminal investigation procedures. Crime scene search and recording, collecting and preserving evidence, scientific and technical aids, and case preparation.

CJCR 1600 Forensic Science (3 credits)—An introduction to methods used by crime laboratories and the chemical and physical interpretation of the data obtained by crime scene search to include blood samples, fingerprints, tool marks, fiber and fabric identification.

CJCR 2540 Criminal Law (3 credits)—The historical foundations of criminal law, elements of crime, purposes and functions of law, defenses to prosecution, and limits of the law.

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

CJCR 3000 Statistics for Criminal Justice and Criminology (3 credits)—Prerequisite(s): MATH 1530 or equivalent. Criminal statistics, hypotheses and theories, research and related problems, and ways and means of evaluating the effectiveness of criminal justice activities.

CJCR 3010 Research Methods for Criminal Justice and Criminology (3 credits)—Problems in the design and execution of criminal justice research. Various research strategies, including sample surveys, observation, experiments, and evaluation are discussed. Also reviewed are various sources of criminal justice data.

CJCR 3100 Patterns of Criminal Behavior (3 credits)—The social and psychological aspects of criminal behavior, criminality as a developmental process. Specific offender types will be examined.

CJCR 3300 Criminal Justice Ethics (3 credits)—Examination of ethical issues arising in the criminal justice field including police deviance, judicial misconduct, control of inmates in correctional settings, and field research dilemmas.

CJCR 3310 Criminology (3 credits)—An analysis of the major sociological theories of crime causation, sociological aspects of types of offenders, and techniques of measuring crime.

CJCR 3330 Police in America (3 credits)—Historical and philosophical evolution of the police. Emphasis will be placed on functions and control of police in a democratic society and the analysis of policing from a social science perspective.

CJCR 3440 Corrections in America (3 credits)—Philosophical and historical evolution of punishment in the United States. With emphasis on prisons, jails, community-based corrections, efficiency of social control policies, such as “boot camp” prisons, rehabilitation, juvenile detention, capital punishment, etc., will be examined.

CJCR 3444 Microcomputers as a Research Tool (3 credits)—Prerequisite(s): CSCI 1100, MATH 1530, CJCR 3000. In depth application of microcomputers in criminological research. Emphasis on data analysis using various software (SPSS/PC+, SAS). Requires use of e-mail and Internet.

CJCR 3500 Juvenile Justice: Theory and Process (3 credits)—History, philosophy, and evaluation of the juvenile justice system. Emphasis on theoretical explanations of delinquency, gangs, and violence, as well as examination of types of social interventions by police, courts, corrections, and other organizations.

CJCR 3610 Terrorism and Counter-Terrorism (3 credits)—An examination of terrorism and counter-terrorism. The course will cover both domestic and international terrorism and efforts to prevent terrorism.

CJCR 3650 Criminal Procedure (3 credits)—Federal/state laws and rules of arrest, search and seizure of evidence, interrogation of suspects, obtaining confessions, and criminal identifications.

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

CJCR 4007/5007 Correctional Counseling (3 credits)—An overview of counseling methods, principles and procedures of therapeutic techniques, and processes for use in various correctional environments.

CJCR 4018 Honors Thesis (3-6 credits) —Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

CJCR 4026 Themes of Justice (3 credits)—Introduction to philosophical concepts of justice utilizing a variety of films. Examination of issues such as prejudice, violence, punishment, and peacemaking in the context of social and criminal justice.

CJCR 4027/5027 Media and Crime (3 credits)—Examination of relationship between media and crime, with special emphasis on television. Course content examines both reporting and non-news media content relevant to crime and the criminal justice system, the study of audience effects, and different response theories about media dissemination of news, opinion, information, and entertainment.

CJCR 4222 Criminal Justice Administration (3 credits)—Examination of principles of management and administration of criminal justice organizations. Emphasis on planning, budgeting, staffing, decision-making, policy development, and program evaluation.

CJCR 4560 White-Collar Crime (3 credits)—Etiology and epidemiology of upper-class criminality. Emphasis on organizational, occupational, and crimes by the government. Functions of social control, punishment, and regulatory agencies are examined.

CJCR 4580 Violence: The American Experience (3 credits)—Examination of the role of violence in American society. Etiological and epidemiological issues addressed with emphasis on various forms of violence such as homicide, gangs, hate groups, white-collar crime, and violence against women.

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

CJCR 4670 Race, Gender and Crime (3 credits)—Examination of experiences of women and people of color with agencies of social control. Comparisons of crime rates, types of criminal offending, and victimization including discussion on sexual and racial harassment in the workplace.

CJCR 4800 Field Experience in Criminal Justice (6 credits) —Prerequisite(s): 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 system. Examination of alternative policies for intervention by police, courts, and correctional agencies.

CJCR 4900 Independent Study in Criminal Justice (1-3 credits) —Prerequisite(s): Consent of department chair. Directed study in specific areas of criminal justice literature not covered by organized undergraduate courses. A detailed research paper required.

CJCR 4950 Special Topics in Criminal Justice and Criminology (3 credits)—A seminar on selected topics of contemporary interest in criminal justice and criminology.
CJCR 4957/5957 Special Topics in Criminal Justice (3 credits variable)—Prerequisite(s): Senior or graduate status. A seminar on selected topics of contemporary interest.

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

**Graduate Course Listing**

For Descriptions and Prerequisite(s) see the Graduate Catalog

The department offers the Master of Arts in Criminal Justice degree with courses in criminology, corrections, and police studies.

CJCR 5000 Criminology Theory ................................................... (3 credits)
CJCR 5005 Ethics and Social Justice ........................................... (3 credits)
CJCR 5010 The American System of Justice .................................. (3 credits)
CJCR 5040 Law, Society, and Criminal Justice ............................. (3 credits)
CJCR 5500 Topical Seminar .......................................................... (3 credits)
CJCR 5850 Research Design in Criminology ................................. (3 credits)
CJCR 5950 Quantitative Methods in Criminology ............................ (3 credits)
CJCR 5960 Thesis .......................................................... (3 credits)
CJCR 5980 Research Practicum .................................................... (1 credit)

**Electives**

CJCR 5020 American Policing ..................................................... (3 credits)
CJCR 5026 The Death Penalty in America ...................................... (3 credits)
CJCR 5027 Media and Crime ....................................................... (3 credits)
CJCR 5030 Issues in Correctional Treatment ................................ (3 credits)
CJCR 5031 American Corrections ............................................... (3 credits)
CJCR 5050 Seminar in White-Collar Crime ................................. (3 credits)
CJCR 5070 Juvenile Justice and Delinquency ................................ (3 credits)
CJCR 5560 Violence: The American Experience ........................... (3 credits)
CJCR 5800 History of Criminological Theory ............................... (3 credits)
CJCR 5900 Special Problems in Criminal Justice ........................... (3 credits)
CJCR 5990 Readings and Research .............................................. (3 credits)
CJCR 5990 research ........................................................ (1-3 credits)

**Cardiopulmonary Science**

**CPSC**

**CPSC 3000 Foundations of Cardiopulmonary Science (4 credits)—Prerequisite(s): A L H E 2010 and A L H E 2020.** A capstone into the Cardiopulmonary Science program; Corequisite(s): CPSC 3010 and CPSC 3040. Basic modalities of cardiopulmonary care are examined to understand their principles of application to patients. A discussion will be provided on the indications, hazards, contraindications, and assessments of various patient care modalities. Modes of care include medical gas therapy, aerosol and humidity therapy, postural drainage and percussion, and lung hyperinflation.

**CPSC 3010 Foundations of Cardiopulmonary Science Lab (3 credits)—Prerequisite(s): A L H E 2010 and A L H E 2020.** A capstone into the Cardiopulmonary Science program; Corequisite(s): CPSC 3000 and CPSC 3040. Cardiopulmonary equipment utilized to perform basic modalities of care will be examined in detail. Emphasis placed on the assembly, maintenance, troubleshooting, adjustment, and application of equipment to patients. Laboratory practice will allow students to obtain operational proficiency prior to actual clinical experience. A wide variety of equipment will be introduced to include oxygen therapy, aerosol and humidity therapy, hyperinflation devices, chest physical therapy, and non-invasive monitors.

**CPSC 3040 Pharmacology in Cardiopulmonary Science (3 credits)—Prerequisite(s): A L H E 2010 and A L H E 2020.** A capstone into the Cardiopulmonary Science program; Corequisite(s): CPSC 3000 and CPSC 3010. Introduction into various pharmacological agents utilized in patients with cardiopulmonary dysfunction. An in depth discussion will be conducted on the mode of action, classification, indications, contraindications, hazards, and methods of medication delivery.

**CPSC 3100 Cardiopulmonary Critical Care (3 credits)—Prerequisite(s): CPSC 3000, CPSC 3010, and CPSC 3040; Corequisite(s): CPSC 3110 and CPSC 3150.** Study and practice of acute and emergency airway care, arterial blood gas analysis, mechanical ventilation, infectious control, and other areas of critical care.

**CPSC 3110 Cardiopulmonary Critical Care Lab (3 credits)—Prerequisite(s): CPSC 3000, CPSC 3010, and CPSC 3040; Corequisite(s): CPSC 3100 and CPSC 3150.** This course is the corresponding laboratory course for CPSC 3100. Students will set up, operate, maintain, and troubleshoot machines that are used in the treatment of critically ill patients. Students are required to demonstrate operational proficiency in various cardiopulmonary critical care equipment and procedures prior to enrolling for CPSC 3350.

**CPSC 3140 Cardiopulmonary Disease Pathology (3 credits)—Prerequisite(s): CPSC 3100 and CPSC 3110; Corequisite(s): CPSC 3350.** A discussion will be conducted on the etiology, pathophysiology, clinical manifestations, and prognosis of various cardiopulmonary diseases. Included will be the respiratory care practitioner's role in the successful treatment of these disorders.

**CPSC 3150 Clinical Education I (3 credits)—Prerequisite(s): CPSC 3000, CPSC 3010, and CPSC 3040; Corequisite(s): CPSC 3100 and CPSC 3110.** Clinical experience will introduce the student to the basic modalities in the treatment of cardiopulmonary diseases. Students will rotate to several local hospitals during the semester. Students will obtain proficiency in oxygen therapy, aerosol and humidity therapy, hyperinflation devices, chest physical therapy, patient assessment, and medical gas therapy.

**CPSC 3350 Clinical Education II (4 credits)—Prerequisite(s): CPSC 3100; Corequisite(s): CPSC 3140.** This course allows the student to apply critical care principles taught in courses CPSC 3100 and 3110 in actual clinical settings. Students will be responsible for the initiation, discontinuation, and evaluation of various cardiopulmonary critical care equipment.

**CPSC 3350 Patient Centered Practice (3 credits)—Prerequisite(s): CPSC 3150; instructor approval.** This course is focused on improving patient care through writing and using patient-driven protocols. Students explore AARC clinical practice guidelines and regional practices, comparing differences or similarities in practice. There is an emphasis on teaching patients and families how to perform modalities and actively participate in the return to wellness. This course is conducted using the World Wide Web (www) and an online laboratory.

**CPSC 4100 Advanced Cardiopulmonary Critical Care (3 credits)—Prerequisite(s): CPSC 3100, CPSC 3110, and CPSC 3140; Corequisite(s): CPSC 4150, CPSC 4500, and A L H E 4060.** This course provides a study of advanced cardiopulmonary technology utilized in the critical care settings. Students will be required to complete Advanced Cardiac Life Support as part of this course. Also, topics include hemodynamic monitoring, advance mechanical ventilation, and therapist-driven protocols.

**CPSC 4150 Clinical Education III (3 credits)—Prerequisite(s): CPSC 3350; Corequisite(s): CPSC 4100, CPSC 4500, and A L H E 4060.** This course will place the student in advanced and specialized areas in cardiopulmonary care. During the semester the student will be exposed to clinical areas including advanced critical care monitoring, intubation, neonatal/pediatrics, home health care, sleep disorders, cardiopulmonary stress testing, and metabolic cart studies.

**CPSC 4200 Neonatal and Pediatric Cardiopulmonary Care (3 credits)—Prerequisite(s): CPSC 4100 and CPSC 4500; Corequisite(s): CPSC 4350 and A L H E 4070.** The process of growth and development associated with cardiopulmonary care from the fetus to the adolescent will be discussed. Coursework will include a dialogue on the complications and risk factors associated with birth. Techniques of diagnosis and treatment of neonatal cardiopulmonary emergencies will be discussed. Upon the successful completion of this course, students will fulfill the requirements for the Neonatal Advanced Life Support program.

**CPSC 4350 Clinical Education IV (3 credits)—Prerequisite(s): CPSC 4150; Corequisite(s): CPSC 4200 and A L H E 4070.** This course emphasizes cardiac diagnostics, cardiac and pulmonary rehabilitation, neonatal/pediatrics, pulmonary function testing, and long-term care. Students are required to successfully complete computerized clinical simulation modules to review, enhance, and synthesize professional cognates and skills.

**CPSC 4500 Cardiopulmonary Diagnostic and Therapeutic Care (3 credits)—Prerequisite(s): CPSC 3100, CPSC 3110, and CPSC 3140; Corequisite(s): CPSC 4100, CPSC 4150, and A L H E 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.
East Tennessee State University
Computer and Information Sciences

CSCI 1038 Honors Orientation Seminar (1 credit)—Prerequisite(s): A division to College of Business and Technology or University Honors Program. This course will fully orient the student to the expectation for an honors student. Discussion and activities will relate to preparation for academic success and developing information technology skills.

CSCI 1100 Using Information Technology (3 credits)—Students will gain a working knowledge of word-processing, spreadsheets, electronic communication, and online database searching and will learn the skills necessary to integrate electronic information from various sources. Students will learn through both lecture and hands-on experience.

CSCI 1101 Introduction to Spreadsheets (1 credit)—Prerequisite(s): CSCI 1100. Students learn the concepts of designing spreadsheets, manipulating numeric information, developing formulas, presenting numeric information, and incorporating spreadsheet information into other electronic formats. This course will include both lecture and hands-on instruction.

CSCI 1102 Introduction to Database Applications (1 credit)—Prerequisite(s): CSCI 1100. Students learn how to use database software to create specific applications. Emphasis will be placed on creating databases, forms, reports, and queries. This course will include both lecture and hands-on instruction.

CSCI 1105 Computer Applications and Music (1 credit)—A study of computer applications as they relate to music. Emphasis on lab work utilizing software and hardware to manipulate sound (spoken, ambient, and musical), legal and ethical issues, and mechanics of modern sound processing.

CSCI 1200 Essentials of Computing (3 credits)—This course is intended for majors and non-majors. Students will gain a working knowledge of programming basics, problem solving, algorithm development, debugging strategies, and a modern programming environment. Students will also acquire skills that can be applied to problem solving using programs and the practice of computer science.

CSCI 1250 Introduction to Computer Science I (4 credits)—Prerequisite(s): 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(s): 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(s): CSCI 1250 or permission of instructor. Designing and writing programs for business applications in a standardized high-level language with emphasis on structure, algorithms, and good programming practice.

CSCI 1510 Student in University (3 credits)—This course is meant to provide guidance to first-year university students as they begin their search for directions to take in self-definition, intellectual growth, career choices, and life skills.

CSCI 1600 Visual Programming with Applications (3 credits)—Prerequisite(s): CSCI 1100. An introduction to developing applications using a scripting language. This course is designed to show how to analyze problems, design solutions, and implement applications using a visual programming language in conjunction with applications such as word processing, spreadsheets, presentation software, and database management. Laboratory use of software and team participation are essential to this course.

CSCI 1710 World Wide Web - Design and Creation (3 credits)—Prerequisite(s): MATH 1720 or two years of high school algebra; and Corequisite(s): CSCI 1100 or Prodigy Exam. An introduction to the World Wide Web as both a user and a developer. This course is designed to take the user from creating web pages to designing a large web site. Emphasis will be on the use of existing software applications that generate web-ready code. Other topics will include HTML, multimedia integration, and browser plug-ins. Laboratory use of software and team participation is an integral part of this course.

CSCI 1720 World Wide Web - Advanced Concepts (3 credits)—Prerequisite(s): 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 (i.e., 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 (4 credits)—Prerequisite(s): 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 1900 Math for Computer Science (3 credits)—Prerequisite: High school algebra or equivalent. Students will gain a working knowledge of set theory, mathematical induction and recursion, relations and digraphs, functions, trees and languages, finite-state machines, and languages and see how these topics are applied to the practice of computer science.

CSCI 2038 Honors Professional Ethics (3 credits)—Prerequisite(s): A division to College of Business and Technology or University Honors Program; and sophomore standing. A case-study approach to basic ethical issues likely to confront engineers, computer scientists, and family and consumer scientists in their professional practices.

CSCI 2100 Introduction to C (3 credits)—Syntax and structure of the C programming language. The laboratory use of the computer in designing, coding, debugging, and executing programs in C is an integral part of the course.

CSCI 2150 Computer Organization (4 credits)—Prerequisite(s): CSCI 1250 or CSCI 1800. An introduction to Boolean algebra, combinational and sequential circuits, and 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(s): CSCI 1250 and CSCI 2150. The assembly language of a modern computer including the instruction set, pseudo-operations, macros, and conditional assembly, object code, use of dumps, coding and linkage conventions, addressing techniques, and use of the assembler. Laboratory use of the computer in designing, coding, debugging, and executing programs is an integral part of the course.

CSCI 2200 Introduction to UNIX (3 credits)—Prerequisite: One programming course (CSCI 1800 or CSCI 1250) or permission of the instructor. UNIX and UNIX-like command environments, including basic UNIX command-line commands and utilities; a representative UNIX interface; and a UNIX-based scripting language.

CSCI 2210 Data Structures (4 credits)—Prerequisite(s): CSCI 1260. 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(s): 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(s): CSCI 1250 or CSCI 1800. An overview of the Unix operating systems environment, with special emphasis on bash scripting. Topics include the basic Unix command set, Unix text editing, filters, key utility programs, bash shell programming, and Unix multiprofessing and job control commands.

CSCI 2800 Visual Programming - Advanced Concepts (4 credits)—Prerequisite(s): 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(s): CSCI 1710 and other CSCI 1260 or CSCI 2800; Corequisite(s): CSCI 2225. 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 3800 Visual Programming for Programmers (4 credits) Prerequisite: The equivalent of CSCI 1250 and 1260 or permission of the instructor. This course is an introduction to developing desktop applications using a visual programming language. The course is designed to show how to analyze problems, design solutions, and implement applications that use the most current release of the visual programming language. Emphasis will be given to the development of computer solutions. Laboratory use of software and team participation is essential to this course.

CSCI 4018 Honors Thesis (3 credits)—Prerequisite(s): Satisfactory completion of all college honors classes and advisor approval. This thesis is a capstone academic experience bringing into focus the result of the students’ learning and career interests.

CSCI 4027/5027 Information Management (3 credits)—Prerequisite(s): Permission of instructor. Provides an overview of DBMS concepts and topics appropriate to professionals who will be concerned with the management of DBMS servers and their use within a corporate setting.

CSCI 4048 Honors International Study (3 credits)—Prerequisite(s): Satisfactory completion of all CAST Honors courses or college honors committee approval. This course will consist of a two-week international study and cultural experience in addition to a pre-tour orientation.

CSCI 4057/5057 Advanced Internet Technologies (3 credits)—Prerequisite(s): Permission of instructor. This course is intended to give a computer science professional training in state-of-the-art Internet design tools by building upon their existing background as programmers. Topics will address advanced issues in design, optimization, and maintenance of web pages and web sites, the latest in server and client-side programming, and other emerging technologies.

CSCI 4077/5077 Networking Essentials (3 credits)—Prerequisite(s): Permission of instructor. This course is designed to provide students with general concepts of data communication and networking using popular conceptual models. It will also cover the system administration aspect of networking by focusing on the latest developments and the current operating systems.

CSCI 4127/5127 Database Management Systems I (3 credits)—Prerequisite(s): CSCI 2210 and CSCI 2230, or 2910. A study of the use and underlying principles of database management systems, and approaches for database design with an emphasis on the relational approach. Students will learn how to use good design techniques and implement methods for both small and large databases. Laboratory use of database software for designing, implementing, debugging, and maintaining database systems will be an integral part of this course.

CSCI 4157/5157 Interactive Graphics (3 credits)—Prerequisite(s): CSCI 2210 and MATH 2250; or permission of instructor. Point plotting, vector generation, interactive techniques, two- and three-dimensional transformations, perspective depth, hidden line elimination, shading, colors, and mapping.

CSCI 4217/5217 Ethical Issues in Computing (3 credits)—Prerequisite(s): CSCI 3250. A study of the ethical issues facing computer users and computer professionals including an examination of the techniques for the analysis and resolution of these issues consistent with standards of the computing profession.

CSCI 4227/5227 Advanced Database Systems (3 credits)—Prerequisite(s): CSCI 3220. 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 relational. Laboratory use of database software for designing, implementing, debugging, and maintaining database systems will be an integral part of this course.

CSCI 4317/5317 Law and the Internet (3 credits)—Prerequisite(s): Minimum of 60 hours completed or approval of the instructor. A multidisciplinary overview of the relationship between the Internet and the laws of privacy, right to accurate information, access to information, first amendment, patents, trade secrets, trademarks and unfair business practices, jurisdiction, e-commerce, telecommunication, and antitrust.

CSCI 4417/5417 Introduction to System Administration (3 credits)—Prerequisite(s): CSCI 3400 and CSCI 2235. 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)—Prerequisite(s): Senior standing or permission of instructor. A study of the basic elements of multimedia including text, graphic art, sound, animation, and video. This course will cover the methods of creating each of the elements of multimedia and how to combine them into meaningful units for maximum effect. The instruction will be interactive and project-oriented. Teamwork and good design will be emphasized.

CSCI 4527/5527 Computer-Based Authoring Systems (3 credits)—Prerequisite(s): Senior standing or permission of instructor. A survey of methods in computer-based authoring systems. This course will cover the design, implementation, and evaluation of computer-based training modules using one or more authoring systems. Emphasis will be on the use of hypermedia and multimedia tools, analysis of instructional goals and their evaluation, and using the World Wide Web for delivery of instruction. Laboratory experiences and group projects will be integral parts of this course.

CSCI 4717/5717 Computer Architecture (3 credits)—Prerequisite(s): CSCI 2160 and CSCI 2210; or permission of instructor. Computer systems are viewed as consisting of a series of layers or levels one on top of another. Topics of computer architecture are presented. Microprogramming stack computers, parallel computers, pipeline processing, multiprocessors, virtual storage, cache storage, addressing schemes, and I/O and interrupt structure.

CSCI 4727/5727 Operating Systems (3 credits)—Prerequisite(s): CSCI 2160 and CSCI 2210; or permission of the instructor. The study of operating systems which are the primary resource managers of computer hardware.
The main features provided by operating systems, including process management, storage management, processor management, and auxiliary storage management are studied in detail. Topics of networking and security are introduced. Case studies of representative commercial operating systems are highlighted. The main features common to operating systems. Use of the computing laboratory is an integral part of the course.

CSCI 4800 Senior Project in Information Technology (3 credits)—Prerequisite(s): CSCI 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 projects for campus and in the community that can be accomplished in 15 weeks. Lectures will focus on professional issues that include the short-term and long-term future of IT strategies for finding and securing employment, nontechnical elements of professional competence, and strategies for continuing career development after college.

CSCI 4857/5857 User Interface Programming (4 credits)—Prerequisite(s): CSCI 1250 and 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(s): 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(s): 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(s): Permission of instructor. Special topics not covered in other courses. May be repeated for credit with departmental approval if the topics are significantly different.

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

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

CSCI 5100 Computer Architecture: Advanced Concepts (3 credits)  
CSCI 5150 Operating Systems: Advanced Concepts (3 credits)  
CSCI 5200 Computer Architecture: Advanced Concepts (3 credits)  
CSCI 5210 Software Systems Engineering (3 credits)  
CSCI 5220 Specification of Software Systems (3 credits)  
CSCI 5220 Software Verification and Validation (3 credits)  
CSCI 5230 Software Project Management (3 credits)  
CSCI 5290 Database Design (3 credits)  
CSCI 5300 Principles and Applications of Software Design (3 credits)  
CSCI 5350 Graph Theory and Its Applications (3 credits)  
CSCI 5460 Cryptography and Data Security (3 credits)  
CSCI 5550 Directed Research I (3 credits)  
CSCI 5610 Formal Languages and Computational Complexity (3 credits)  
CSCI 5620 Analysis of Algorithms (3 credits)  
CSCI 5900 Independent Study (1-9 credits)  
CSCI 5910 Software Development Project I (3 credits)  
CSCI 5920 Software Design Studio II (4 credits)  
CSCI 5930 Software Development Project III (3 credits)  
CSCI 5960 Thesis (3 credits)  
CSCI 5989-99 Cooperative Education (1-3 credits)  
CSCI 5990 Readings and Research (1-3 credits)

Curriculum and Instruction

CUAI

CUAI 2440 Computer Applications in Education (3 credits)—Prerequisite(s): CUAI 1100 or the Proficiency Exam. This course is an examination of the specific ways computer technology contributes to the quality of the educational environment.

CUAI 3221 IDEAS: Integrating Language Arts and Social Studies (3 credits)—Prerequisite(s): Students must be admitted to Teacher Education. This course sets forth an integrated approach to curriculum in which social studies content, literature, and language arts skills are taught through five central themes. These central themes are: I-Imagination, D-Discovery, E-

Encounters, A-Adventures, and S-Synergy. Language arts skills-listening, speaking, reading, writing, and thinking-are integrated into social studies and literature experiences that are based on meaningful content and children's experience. Students are invited to get involved in a variety of creative activities and learning situations that range from individual inquiry to group interactions.

CUAI 3430 Elementary Methods in Mathematics (K-8) (3 credits)—Prerequisite(s): HDAL 2320, HDAL 3310, SPED 2300, and admission to teacher education. Designed to explore current methodology for teaching children and youth with a variety of learning and lifestyles. Modern techniques of classroom management are included. Appropriate field experiences are required.

CUAI 4008 Honors Service-Learning (1 credit)—Prerequisite(s): A donation to the College of Education's honors program, HDAL 2008, and PEXS 3008. Honors service-learning in social/cultural agencies and programs related to education.

CUAI 4018 Honors Thesis (3 - 6 credits)— Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

CUAI 4210 Integrated Teaching: Language Arts (3 credits)—Corequisite(s): CUAI 4220, CUAI 4310, CUAI 4424, and READ 4026. This course focuses on planning for teaching and learning, writing objectives, identifying materials, and providing strategies for teaching listening, speaking, reading, and writing in grades K-6. The emphasis is on planning, implementing, and assessing an integrated program on student learning and effective teaching.

CUAI 4220 Integrated Teaching: Social Studies (3 credits)—Corequisite(s): CUAI 4210, CUAI 4310, CUAI 4424, and READ 4026. This course is designed to explore the current methodology and content of early- and intermediate-grade social studies education. Students design and implement learning experiences that incorporate meaningful uses of social studies concepts during field experiences.

CUAI 4230 Integrated Field Experience I (1 credit)—Prerequisite(s): A donation to teacher education, HDAL 3310, HDAL 3310, READ 3103, and SPED 2300. Corequisite(s): CUAI 4210 and CUAI 4220. This course is a school-based field experience that accommodates the requirements for CUAI 4210 and CUAI 4220. Students participate in planning, implementing, and evaluating integrated instruction appropriate for students of varying backgrounds and abilities.

CUAI 4240 Methods and Materials in Curriculum and Instruction (9 credits)—Prerequisite(s): A donation to teacher education and completion of HDAL 3310, HDAL 3310, READ 3103, and SPED 2300; Corequisite(s): CUAI 4241. This course is a school-based field experience that accommodates the requirements for CUAI 4210 and CUAI 4220. Students participate in planning, implementing, and evaluating integrated instruction appropriate for students of varying backgrounds and abilities.

CUAI 4241 Performance Assessment in Clinical Settings (3 credits)—Prerequisite(s): A donation to teacher education, SCED 4321, SCED 3200, EFNP 3301, and MEDA 3570; Corequisite(s): CUAI 4210, CUAI 4220, CUAI 4310, and READ 4026. This course is a clinical field experience that accommodates the performance-based requirements for the Interdisciplinary Studies in Education major. The course provides opportunities for planning, implementing, and evaluating integrated instruction developmentally appropriate for students of varying backgrounds and abilities. Evaluation and assessment of teaching skills and practices developed in methods and content courses are emphasized. Evaluation and assessment of teaching effectiveness in relation to improvement of student learning is expected. Collection and development of pre-service teacher work samples, as well as work samples from the clinical are evaluated through the Developmental Teaching Portfolio—Evaluative Level and an oral presentation. Reflective thinking, as well as continuous, ongoing improvement in preparation for the profession of teaching are stressed.
CUAI 4310 Integrated Teaching: Mathematics (3 credits)—Corequisite(s): CUAI 4210, CUAI 4220, CUAI 4241, and READ 4026. This course addresses methodology and theories for teaching and learning elementary mathematics (K-6) with attention paid to problem solving, diversity, current technologies, assessment (including diagnosis and remediation), current issues in mathematics education, reflective teaching and learning, and the application of mathematics to everyday life.

CUAI 4330 Integrated Field Experience II (1 credit)—Prerequisite(s): A admission to teacher education, CUAI 4210, CUAI 4220, and CUAI 4230; Corequisite(s): CUAI 4310 and SCED 4320. This course is a school-based field experience that accommodates the requirements for CUAI 4310 and SCED 4320. Students participate in planning, implementing, and evaluating integrated instruction appropriate for students of varying backgrounds and abilities.

CUAI 4407/5407 Integrating the Creative Arts: K-8 (3 credits)—Prerequisite(s): Completion of the Arts and A ristic V ision course requirement in General Education and of fine arts course in K-8 concentration. Strategies for promoting the creative processes in children K-8 will be studied. Areas of focus will include visual arts, music, dance, and theatre. The importance of the arts in the development of children and their capacity for expression will be emphasized. The arts will lead to interdisciplinary study with authentic connections among and across other disciplines.

The following courses are designed to examine current methodology for teaching youth and adults possessing a variety of learning and lifestyles in the secondary school (7-12) Prerequisite(s): A admission to Teacher Education.

ARTA 4419 Teaching Art in Secondary Schools ................. (3 credits)
FACS 4727/5727 Methods for Vocational Home Econ. Ed. .......... (3 credits)
BIOL 4417/5417 Teaching Biology in High School ................. (3 credits)
ENGL 4417/5417 Teaching English in Secondary Schools ............. (3 credits)
ENTC 4787/5787 Methods of Teaching Vocational/Technology Ed. .. (3 credits)
GEOG 4417/5417 Integrated Art and Earth Science .......... (3 credits)
HIST 4417/5417 The Teaching of History ......................... (3 credits)
LANG 4417/5417 Teaching Modern Languages .................... (3 credits)
MATH 4417/5417 Teaching of Secondary Mathematics .......... (3 credits)
SCED 4417/5417 Teaching Science in Secondary School .......... (3 credits)
SPCH 4417/5417 Teaching Secondary School Speech and Theatre .. (3 credits)
THEA 4417/5417 Teaching Theatre Grades K-12 ................. (3 credits)

CUAI 4417/5417 Secondary School Curriculum and Methodology (3 credits)—Prerequisite(s): A admission to Teacher Education; Corequisite(s): Enrollment in CUAI 4427/5427. This course focuses on teaching and learning in secondary school and includes the study of curriculum and methodology suitable for a variety of life and learning styles. Evaluative Level Portfolio required. Fall, Spring

CUAI 4427/5427 Secondary School Curriculum and Methodology Field Experience (1 credit)—Prerequisite(s): A admission to Teacher Education; Corequisite(s): Enrollment in CUAI 4427/5427. This field experience provides students with a school setting to implement class activities. Students are required to spend 30 hours working primarily with one mentor and a single class of students. Evaluative Level Portfolio required. Fall, Spring

CUAI 4437/5437 English as a Second Language (ESL) Assessment and Testing (2 credits)—This course is designed to equip participants with the knowledge and skills necessary to use multiple sources of information as they test and assess the English language proficiency of non-native speakers of English, place them for appropriate ESL and academic instruction, and assess their ongoing progress toward native-like proficiency and performance.

CUAI 4447/5447 English as a Second Language (ESL) Reading and Instruction (2 credits)—This course is designed to equip participants with the knowledge and skills necessary to develop appropriate curricula and instructional activities to fit the reading needs of non-English language background students with limitations in English proficiency that negatively affect their comprehension of English in print.

CUAI 4457/5457 English as a Second Language (ESL) Methods and Techniques (K-12) (2 credits)—Prerequisite(s): CUAI 4437/5437 and CUAI 4447/5447. This course explores pedagogical approaches to teaching Limited English Proficient (LEP) students in the K-12 arena. Some of the approaches to be explored are the natural approach, total physical response (TPR), cooperative learning, the language experience, integrated language teaching, whole language, and the cognitive academic language teaching approach (CALLA).

CUAI 4467/5467 English as a Second Language (ESL) Curriculum Development (K-12) (2 credits)—Prerequisite(s): CUAI 4437/5437 and CUAI 4447/5447. This course exposes K-12 practitioners to curricular strategies that have been field tested in K-12 classrooms and found to support student learning. The strategies under investigation were developed by teachers and researchers working together to provide an education to children beginning to learn English. Strategies were selected on the basis of their usefulness in making rigorous core curriculum meaningful to students whose knowledge of English might otherwise hinder their academic progress.

CUAI 4517/5517 Math Methods for Early Childhood (3 credits)—Prerequisite(s): A admission to Teacher Education and completion of all math requirements; Corequisite(s): This course is to be taken with CUAI 4527/5527 and 4537/5537. This course is designed to explore current methodology and materials for teaching mathematics to PreK-4 early childhood students. Appropriate field experiences are required.

CUAI 4537/5537 Integrated Field Experience for Early Childhood (1 credit)—Prerequisite(s): A admission to Teacher Education and successful completion of undergraduate math and science requirements; Corequisite(s): This course is to be taken with SCED 4527/5527 and CUAI 4517/5517. This course is a school-based course that builds on earlier field experience in the program and is connected to block of methods courses. Students will be expected to work 30 hours in schools and be involved with planning and implementing instruction for students of varying backgrounds and abilities in the areas of math and science.

CUAI 4547/5547 Emergent Literacy: PreK-4 (3 credits)—Prerequisite(s): A admission to Teacher Education. This course is designed to provide undergraduate and graduate students with a foundation for teaching reading and other literacy competencies to children in pre-k through grade 4. Emphasis is on developing and enlarging understanding of the reading process and the teaching of reading. Strategies and protocols for effective reading and writing instruction are presented.

CUAI 4580 Directed Student Teaching (1-12 credits)—Prerequisite(s): A admission and retention in teacher education and admission to student teaching. Supervised teaching in the modern public school for elementary (K-8), or secondary (7-12) levels. Professional level portfolio required.

CUAI 4587/5587 Internship (1-12 credits)—Prerequisite(s): A admission and retention in teacher education; and approval of the director of student teaching. Corequisite(s): CUAI 4467. A supervised teaching experience at kindergarten, elementary (1-8), or secondary level. May be repeated for credit as deemed necessary by the director of student teaching.

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

CUAI 4707/5707 Classroom Management and Discipline In Regular Classroom Settings (3 credits)—Prerequisite(s): EDFN 3300 and EDFN 3310, or Teacher Licensure. Major theoretical and empirical approaches to classroom management and discipline, applications of principles to specific routine and non-routine situations in regular K-12 classrooms, and problem-solving strategies.

CUAI 4900 Independent Study (1-6 credits)—Departmental approval required.

CUAI 4957/5957 Topics in Curriculum and Instruction (1-6 credits)—Departmental approval required.
### Dental Hygiene

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

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

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

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

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

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

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

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

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

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

**DHYG 1900 Dental Radiology II (1 credit)** — Prerequisite(s): DHYG 1500, DHYG 1501. A two-credit lecture/laboratory to study the interpretation of periapical, bitewing, occlusal, and panoramic radiographs for recognition of periodontal conditions, dental caries, and other pathological conditions.

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

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

**DHYG 2020 Dental Anatomy and Histology (3 credits)** — Prerequisite(s): A coxest in the D ental Hygiene curriculum or special departmental approval. An introduction to the embryology, histology, and morphology of the structures found within the oral cavity. Study will include physiologic function of oral structures, tooth identification, and normal variants of oral anatomy. Root morphology will receive special emphasis.

**DHYG 2030 Pre-Clinical Lecture (3 credits)** — Prerequisite(s): A coxest in D ental Hygiene curriculum or special departmental approval. An introduction to the knowledge, responsibilities, and skills required by the dental hygiene therapist to provide oral health care.

**DHYG 2031 Pre-Clinical Laboratory (3 credits)** — Prerequisite(s): A coxest in D ental Hygiene curriculum or special departmental approval; Corequisite(s): In conjunction with DHYG 2500. Clinical skills will be introduced on dental manikins. Resulting skills will be mastered on clinical lab partners with direct faculty supervision.

**DHYG 2040 Dental Office Emergencies (2 credits)** — Prerequisite(s): A coxest to dental hygiene program or special permission. The study of medical emergencies, as it relates to the practice of dental hygiene.

**DHYG 2050 Occupational Safety for Dental Health Care Workers (1 credit)** — Prerequisite(s): A coxest in D ental Hygiene curriculum or special departmental approval. A study of transmittable and acquired diseases and disorders associated with the practice of dental hygiene. The techniques and practices required to prevent such diseases will also be introduced.

**DHYG 2060 Introduction to Dental Hygiene (1 credit)** — Prerequisite(s): A coxest in D ental Hygiene curriculum or special departmental approval. Lecture and group discussion regarding the history, professional, legal, and ethical aspects of dental hygiene. The course is intended to introduce the dental hygiene student to the field of dental hygiene and the practice of dentistry.

**DHYG 2130 Dental Hygiene Clinical Seminar I (1 credit)** — Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval. To provide the dental hygiene student with the knowledge and skills required to treat the patient with special needs.

**DHYG 2131 Dental Hygiene Clinical Practice I (4 credits)** — Prerequisite(s): Acceptance in Dental Hygiene curriculum or special departmental approval. This course is a continuation of DHYG 2501, and provides a supervised clinical setting for dental hygiene students to practice and demonstrate acquired skills and concepts with patient care.

**DHYG 2160 Periodontology (3 credits)** — Prerequisite(s): A coxest in D ental Hygiene curriculum or special departmental approval. The study of periodontics. Designed to prepare students for clinical practice including treatment of early periodontal diseases.

**DHYG 2170 Dental Radiology (3 credits)** — Prerequisite(s): A coxest in D ental Hygiene curriculum or special departmental approval. A study of the use of radiography in dentistry. Emphasis is placed on the formation of radiation and the properties which affect the dental image, dental radiographic techniques, radiographic processing, radio biological health, and the evaluation of dental radiographs for dental disease.

**DHYG 2171 Dental Radiology Laboratory (1 credit)** — Prerequisite(s): A coxest in D ental 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, panomeric, occlusal, and extraoral radiographs.
DHYG 2200 Introduction to Dental Materials Lecture (2 credits)—A study of the characteristics, physical properties, manipulation, uses, and care of materials used in the practice of dentistry.

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

DHYG 2400 Clinical Practice II (4 credits)—Prerequisite(s): DHYG 2000, DHYG 2100. Three four-credit sessions per week of supervised clinical practice. Emphasis is placed on treatment of the periodontally involved patient and performance of selected expanded services.

DHYG 2410 Entry Clinical Seminar II (1 credit)—Prerequisite(s): DHYG 2000, DHYG 2100; Corequisite(s): In conjunction with DHYG 2400 and is a part of the clinical education continuum. Major content emphasis includes the dental specialties.

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

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

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

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

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

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

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

DHYG 3010 Head and Neck Anatomy (2 credits)—Prerequisite(s): A co-cours in Dental Hygiene curriculum or special departmental approval. The study of head and neck anatomy as it applies to oral evaluation, radiographic interpretation, and dental hygiene treatment.

DHYG 3020 General and Oral Pathology (3 credits)—Prerequisite(s): A co-cours in Dental Hygiene curriculum or special departmental approval. An introduction to general and oral pathology focusing on those diseases that most frequently manifest in the oral cavity. Study will include etiology, clinical signs and symptoms, and treatment of diseases known to affect the oral cavity.

DHYG 3030 Dental Hygiene Clinical Seminar II (2 credits)—Prerequisite(s): A co-cours in Dental Hygiene curriculum or special departmental approval. The study of management skills essential to the contemporary dental hygiene practice including the use of computers in practice management.

DHYG 3031 Dental Hygiene Clinical Practice II (4 credits)—Prerequisite(s): A co-cours in Dental Hygiene curriculum or special departmental approval. Clinical Practice II is a continuum of previous clinical courses. Skills and concepts are refined and expanded.

DHYG 3100 Contemporary Dental Hygiene Theory and Practice (5 credits)—Prerequisite(s): A co-cours in Dental Hygiene curriculum or special departmental approval. A study that will provide licensed dental hygienists the opportunity to evaluate current dental hygiene therapies, interpreting them for application in dental hygiene practice.

DHYG 3110 Dental Materials (2 credits)—Prerequisite(s): A co-cours in Dental Hygiene curriculum or special departmental approval. A study of the characteristics, physical properties, manipulation, uses, and care of materials used in the practice of dentistry and dental hygiene.

DHYG 3111 Dental Materials Laboratory (1 credit)—Prerequisite(s): A co-cours in Dental Hygiene curriculum or special departmental approval. Three-hour lab that includes demonstration, participation, and practice with accepted materials and techniques commonly utilized in dental hygiene practice.

DHYG 3120 Pharmacology for Dental Hygiene (3 credits)—Prerequisite(s): A co-cours in Dental Hygiene curriculum or special departmental approval. The study of pharmacology as it relates to dental hygiene practice.

DHYG 3130 Community Dental Health (3 credits)—Prerequisite(s): A co-cours in Dental Hygiene curriculum or special departmental approval. Survey of the theory and practice of dental public health, with emphasis on assessment, planning, implementation, and evaluation of community health problems. Includes the study of biostatistics, epidemiology, and their relationship to dental public health.

DHYG 3200 Issues in Dental Hygiene (1 credit)—Prerequisite(s): A co-cours in Dental Hygiene curriculum or special departmental approval. A study of dental and hygiene practice setting, legal and ethical issues, methods of procuring employment, compensation mechanisms, and types of insurance.

DHYG 3300 Radiographic Interpretation (1 credit)—Prerequisite(s): A co-cours in Dental Hygiene curriculum or special departmental approval. A laboratory course introducing the dental hygiene student to the principles of radiographic interpretation of anomalies and the identification of normal anatomic landmarks.

DHYG 4010 Teaching Strategies for Allied Health (3 credits)—Prerequisite(s): A co-cours in Dental Hygiene curriculum or special departmental approval. A study of the basic principles of developing and implementing classroom presentations. Emphasis will be placed on the basics of the educational process, leading to the development of a dental health lesson plan for the dental hygienist.

DHYG 4020 Dental Hygiene Clinical Seminar III (1 credit)—Prerequisite(s): A co-cours in Dental Hygiene curriculum or special departmental approval. Utilization of current technology to research selected dental hygiene topics and prepare multimedia presentations.

DHYG 4021 Dental Hygiene Clinical Practice (4 credits)—Prerequisite(s): A co-cours in Dental Hygiene curriculum or special departmental approval. Clinical Practice IV is a continuum of previous clinical courses. Skills and concepts continue to be refined and expanded.

DHYG 4030 Anesthesia and Pain Control (1 credit)—Prerequisite(s): A co-cours in Dental Hygiene curriculum or special departmental approval. This course provides theory and delivery techniques required to administer local anesthetics for pain control during dental hygiene therapies.

DHYG 4110 Supportive Periodontal Therapy (3 credits)—Prerequisite(s): A co-cours 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.
Digital Media

DIGM 1100 Visual Thinking (4 credits)—An introduction to the problems, principles, and process involved in the ideation, conceptual design, and verbal/visual communication of media solutions. In this course students will learn to apply design thinking skills, rapid visualization techniques, and design process templates to define, design, and develop a comprehensive project proposal, product, and implementation plan. Fundamental to this course is the development of drawing skills using traditional media to thumbnail, draw, and diagram the information, visual interfaces, and user interactions associated with project/product design solutions. Lecture and lab.

DIGM 1640 Vector-Based Imaging (4 credits)—Prerequisite(s): DIGM 1100; or permission of instructor. Study of vector-based image production with particular emphasis on postscript illustration and communication. Both technical and design considerations that work to improve the student's ability to communicate graphically will be addressed. This class features a combination of graphic production projects, critiques, readings, and discussions. Lecture and lab.

DIGM 1650 Raster-Based Imaging (4 credits)—Prerequisite(s): DIGM 1100; or permission of instructor. Study of digital imaging and processing as related to modern industrial problems. Areas of study will include a review of historical methods of manipulating images compared with recent innovations in technology and the use of digital formats. Image design, color usage, and computer-based production of both traditional and digital publications will be studied. Lecture and lab.

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

DIGM 2821 Desktop Publishing (4 credits)—Prerequisite(s): DIGM 1100, ARTA 1110, DIGM 1640, DIGM 1650. Study of history, basic processes, materials and methods of the graphic arts and communications industries with emphasis on methods of computer-based print production, typography, and layout. Lecture and lab.

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

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

DIGM 2870 Animation Fundamentals (4 credits)—Prerequisite(s): DIGM 1100, DIGM 1640, and ARTA 1201; or permission of instructor. Study of the fundamental principles and mechanics of motion through hand-drawn animation. Students explore timing, spacing, and staging an image for clarity, gravity, emotion and storytelling, and learn to apply and manipulate the fundamental concepts to creatively animate an idea. The coursework will serve as a foundation for comprehending the underlying principles and mechanics for any form of animation. Lecture and lab.

DIGM 2900 Motion Tools I: Editing (4 credits)—Prerequisite(s): DIGM 1100, DIGM 1650. Study of file-based digital video basics including basic compositing and an overview of the motion production process. Topics include pre-production, storyboarding, audio/video capture, editing of raw content into multi-layered final products, post-production processing of audio/video files for various delivery scenarios, and a review of historical motion picture and motion graphics production compared with recent technology innovations in the production process. Lecture and lab.

DIGM 3000 Principles of Interaction (4 credits)—Prerequisite(s): DIGM 1100, DIGM 1650, DIGM 1640, ARTA 1110; Prerequisite(s) or Corequisite(s): ARTA 1204. This course provides practical and theoretical knowledge in interactive development. Through lectures and studio application of the underlying interactive principles, the student will experience, and gain a comprehensive understanding of interactive project planning, media components, interactive delivery systems, information architecture, usability, user interface design, and interactive application development. Principles governing critical analysis of interactive content and graphical design will be emphasized.

DIGM 3010 Principles of Visualization (4 credits)—Prerequisite(s): DIGM 1640, DIGM 1650, ARTA 1110; Prerequisite(s) or Corequisite(s): ARTA 1204. This course provides practical and theoretical knowledge in visualization. Through lectures and studio application of the underlying principles, students will gain a comprehensive understanding of visualization as follows: modeling, lighting, surface rendering, animation, and digital video exporting. Lecture and lab.

DIGM 3110 3-D Model Design (4 credits)—Prerequisite(s): DIGM 3010, ARTA 1110. Working with state-of-the-art software, this course provides an introduction to 3-D model design. Students will learn how to utilize modeling techniques and applications to gain a basic understanding of NURBS, polygon, and subdivision surfaces to design organized virtual models. Lecture and lab.

DIGM 3120 3-D Lighting & Rendering (4 credits)—Prerequisite(s): DIGM 3110, ARTA 1204 or permission of instructor. This course provides a practical and theoretical understanding of lighting, rendering, and setting up cameras in a 3-D virtual environment. Students will learn how to utilize a number of texturing and mapping techniques, rendering applications, and gain a basic understanding of rendering effects, and specific output issues. Areas of emphasis include shading models, 2-D bitmap, and 3-D procedural texture types, solid and surface mapping types, and techniques for creating stylized and realistic textures. Lecture and lab.

DIGM 3130 3-D Animation (4 credits)—Prerequisite(s): DIGM 3110, DIGM 2870. Study of 3-D as it relates to the basic principles of animation. Students will learn to create believable and natural animations using a combination of several different techniques including inverse kinematics (IK), forward kinematics (FK), bones, morphing, and key-framing. Lecture and lab.

DIGM 3200 Web Design (4 credits)—Prerequisite(s): (Digital Media Majors) DIGM 3000, or permission of instructor; Prerequisites: (Other Majors) DIGM 1650, CSC1 1710, or permission of instructor. This course provides a practical understanding of the knowledge and skills required of fine and applied visual artists in today’s internet environment. Various interdisciplinary aspects will be considered. Emphasis will be on combining intermediate Web techniques with advanced design concepts to create sophisticated interface imagery and animations for the Web. Lecture and lab.

DIGM 3300 Product Design (4 credits)—Prerequisite(s): DIGM 3110 or permission of instructor. An introduction to the problems, principles, and processes involved in the ideation, conceptual design, and digital modeling of product design solutions. In this course students will learn about material
characteristics, 3-D modeling techniques, and manufacturing methods, and be able to render, model, and design innovative product designs. Lecture and lab.

**DIGM 3400 Interactive Design (4 credits)** — Prerequisite(s): DIGM 2821, DIGM 3000, or permission of instructor. This course is a study of the integration of components utilized in multimedia applications with authoring software. Students use industry standard software as a tool for producing interactive projects for CD-ROM, information KIOSK, DVD or Internet delivery. Students will learn the fundamentals of design for these platforms including interactive storytelling, navigation metaphors, technical constraints, and usability. Topics include but are not limited to basic animation techniques, transitions, user interactivity, basic scripting, interactive development process and usability. Efficiency and optimization of programs as well as usability and interface design will be emphasized. Lecture and lab.

**DIGM 4018 Honors Thesis (3 - 6 credits)** — Open to those in university honor programs only. A capstone experience serving as the culmination of an honors curriculum.

**DIGM 4146 Character Animation Laboratory (1 credit)** — Prerequisite(s): DIGM 2870, DIGM 3010, ARTA 1201, ARTA 1204; Corequisite(s): DIGM 4147. This course will incorporate advanced-level laboratory exercises and explorations in character animation production.

**DIGM 4147/5147 Fundamentals of Character Animation (3 credits)** — Prerequisite(s): DIGM 2870, DIGM 3010, ARTA 1201, ARTA 1204 or permission of instructor; Corequisite(s): DIGM 4146. This course emphasizes the practical and theoretical principles of character animation. Students will explore how to put personality into characters and develop skills to create characters that act. The exercises will provide a foundation for comprehending the underlying techniques for capturing expression of emotions in animation.

**DIGM 4400 Interactive Development (4 credits)** — Prerequisite(s): DIGM 3000, CSCl 1800, or permission of instructor. This class goes beyond multimedia animation and design to explore interactive programming techniques including conditional statements, loops, subroutines, functions, operators, multi-level movie clips, properties, variables, game programming, and shockwave output. Students will build upon a solid understanding of interactive authoring to develop advanced multimedia applications. Lecture and lab.

**DIGM 4616 Raster-Based Imaging Laboratory (1 credit)** — Prerequisite(s): DIGM 1650, ARTA 1204, or permission of instructor; Corequisite(s): DIGM 4617. This course will incorporate advanced-level laboratory exercises and explorations in raster-based imaging and illustration.

**DIGM 4617/5617 Advanced Raster-Based Imaging (3 credits)** — Prerequisite(s): DIGM 1650, ARTA 1204, or permission of instructor; Corequisite(s): DIGM 4616. Study of advanced raster-based digital imaging and processing. Areas of study will include advanced methods for manipulating and compositing 2-D images, photo enhancement, and digital illustration. Customization of software tools for special effects, painting and image manipulation will be covered. Image design, concept development and creativity, and critical evaluation will be emphasized.

**DIGM 4626 Motion Tools II Laboratory (1 credit)** — Prerequisite(s): DIGM 1650, DIGM 2900, DIGM 3010, or permission of instructor; Corequisite(s): DIGM 4627. This course will incorporate advanced-level laboratory exercises and explorations in digital video compositing.

**DIGM 4627/5627 Motion Tools II: Compositing (3 credits)** — Prerequisite(s): DIGM 1650, DIGM 2900, DIGM 3010, or permission of instructor; Corequisite(s): DIGM 4626. This course covers techniques and theory concerning motion graphics and compositing for video. Instruction is designed to bridge the gaps between 3-D production rendering and final output, live action, and computer generated imagery. Work will be project-based and will provide students with short, demo-real quality work. Though not required, skills in DVD authoring, vector-based imaging, and advanced 3-D skills are helpful.

**DIGM 4636 Interaction Laboratory (1 credit)** — Prerequisite(s): DIGM 2900, DIGM 3400, and/or DIGM 4400, or permission of instructor; Corequisite(s): DIGM 4637. This course will incorporate advanced-level laboratory exercises and explorations in interactive media production.

**DIGM 4637/5637 Advanced Interaction Design (3 credits)** — Prerequisite(s): DIGM 2900, DIGM 3400, and/or DIGM 4400, or permission of instructor; Corequisite(s): DIGM 4636. Scripting control programs on advanced digital media platforms to create interactive multimedia works comprising images, animation, digital audio and video. Students are expected to have some computer programming experience.

**DIGM 4646 Animation Laboratory (1 credit)** — Prerequisite(s): DIGM 2870, DIGM 3010, ARTA 1201, ARTA 1204, or permission of instructor; Corequisite(s): DIGM 4647. This course will incorporate advanced-level laboratory exercises and explorations in animation production.

**DIGM 4647/5647 Advanced Animation (3 credits)** — Prerequisite(s): DIGM 2870, DIGM 3010, ARTA 1110, ARTA 1201, ARTA 1204, or permission of instructor; Corequisite(s): DIGM 4646. A study in advanced animation techniques. Topics may include, but are not limited to, animation procedures with a focus on motion, timing and storytelling.

**DIGM 4656 Web Design Laboratory (1 credit)** — Prerequisite(s): (Digital Media Majors) DIGM 3000, DIGM 3200, or permission of instructor; Corequisite(s): (Other Majors) DIGM 1650, DIGM 3200, or permission of instructor; Corequisite(s): DIGM 4616. This course will familiarize the student with techniques used to create fully functional Web applications keeping the graphic design and usability in mind. Topics covered include the use of scripting objects, database interaction, session management, and advanced interface design. Emphasis will be placed on incorporating good development practices with front-end design considerations. In-class discussions and critiques are an essential part of this course.

**DIGM 4666 Product Design Laboratory (1 credit)** — Prerequisite(s): DIGM 3300 or permission of instructor; Corequisite(s): DIGM 4667. This course will incorporate advanced-level laboratory exercises and explorations in product visualization.

**DIGM 4667/5667 Advance Product Design (3 credits)** — Prerequisite(s): DIGM 3300 or permission of instructor; Corequisite(s): DIGM 4666. An exploration of the problems, principles, and processes involved in the digital modeling, development, and delivery of product design solutions. In this course students will learn advanced modeling, animation, and surface evaluation techniques, and be able to model, move, and modify innovative product designs for engineering and experience outputs. Students will learn to design for the physical world (to model for manufacture and rapid prototyping), and for the virtual world (to model for marketing and interactive programs).

**DIGM 4816 3-D Effects Animation Undergraduate Laboratory (1 credit)** — Prerequisite(s): DIGM 3130, DIGM 2900, or permission of instructor; Corequisite(s): DIGM 4817. This course will incorporate advanced-level laboratory exercises and explorations in 3-D effects animation.

**DIGM 4817/5817 3-D Effects Animation (3 credits)** — Prerequisite(s): DIGM 3130, DIGM 2900, or permission of instructor; Corequisite(s): DIGM 4816. This production course focuses on dynamic animation strategies to visualize physical phenomena. Students will explore rigid and soft bodies, particle animation, and rendering in both theory and practice. Additional topics include techniques involving instancing geometry with particle motion, basic fluid dynamics, cloth simulation, and dynamic constraints.
East Tennessee State University

**DIGM 4826 Motion Tool III Laboratory (1 credit)**—Prerequisite(s): DIGM 2900 or permission of instructor; Corequisite(s): DIGM 4827. This course will incorporate advanced-level laboratory exercises and explorations in digital video production.

**DIGM 4827/5827 Motion Tools III: Application (3 credits)**—Prerequisite(s): DIGM 2900 or permission of instructor; Corequisite(s): DIGM 4826. A study of the computer as a tool for acquiring, editing and composing a wide range of source media into high resolution video programs.

**DIGM 4876 Modeling & Lighting Laboratory (1 credit)**—Prerequisite(s): DIGM 3110, DIGM 3120, or permission of instructor; Corequisite(s): DIGM 4877. This course will incorporate advanced-level laboratory exercises and explorations in 3D modeling & lighting.

**DIGM 4877/5877 Advanced Modeling & Lighting (3 credits)**—Prerequisite(s): DIGM 3110, DIGM 3120, or permission of instructor; Corequisite(s): DIGM 4876. Topics include lighting effects, shadows, optimized rendering, and techniques for specification in all modeling paradigms.

**DIGM 4886 Technical Direction Laboratory (1 credit)**—Prerequisite(s): DIGM 3130, DIGM 3140, or permission of instructor; Corequisite(s): DIGM 4887. This course will incorporate advanced-level laboratory exercises and explorations in technical direction.

**DIGM 4887/5887 Technical Direction for Animation (3 credits)**—Prerequisite(s): DIGM 3130, DIGM 3140, or permission of instructor; Corequisite(s): DIGM 4886. This course will explore advanced digital character animation techniques. Course topics include character setup, inverse kinematics, joints and bones systems, deformers, scripting and set driven key set-up. There will be an emphasis on effective character set-up procedures and scripting workflow.

**DIGM 4900 Independent Study in Digital Media (2-6 credits)**—Individual students or groups of students define a problem and work under the direction of a faculty member. The problem must be approved by the department. Significant investigation and reporting required.

**DIGM 4930 Portfolio Development for Digital Media (4 credits)**—Prerequisite(s): Senior status and within two (2) semesters of completing all requirements for graduation. This course provides the opportunity to review and refine selected examples of work for the creation of a digital media portfolio. Topics include industry research, job searching techniques, interview preparation, group projects, presentation skills, and portfolio development and refinement. Lecture and lab.

**DIGM 4957/5957 Special Topics in Digital Media (2-6 credits)**—Special Topics of current interest to groups of students concerning content not presented in regular course offerings. May be repeated for credit if material covered is significantly different or advanced.

**Developmental English**

**DSPW**

**DSPW 0800 Fundamentals of Composition (3 credits)**—A course designed to help students develop essential skills for completing essay length assignments. This course concentrates on thematic organization, prewriting strategies, revising, editing, grammar, paragraphing, diction, and supporting a point. The graduation requirement is increased by three credits for students enrolled in this course.

**Developmental Mathematics**

**DSPM**

**DSPM 0800 Elementary Algebra (3 credits)**—Real numbers, linear equations and inequalities, formulas, functions and graphs, systems of linear equations, absolute value equations and inequalities. Real world applications are integrated throughout the course. (The graduation requirement is increased by three (3) credits for students enrolled in this course.)

**DSPM 0850 Intermediate Algebra (3 credits)**—Laws of exponents, polynomials, factoring, rational expressions, radicals, quadratic equations. Real world applications are integrated throughout the course. (The graduation requirement is increased by three (3) credits for students enrolled in this course.)

**DSPM 0990 Plane/Analytical Geometry (3 credits)**—A course designed to fulfill a high school deficiency in geometry. Points, lines, angles, polygons, circles, tangents, parallels, perpendiculars, surfaces, solids, and the Cartesian plane. The development of critical thinking skills is stressed. The graduation requirement is increased by three (3) credits for students enrolled in this course.

**Developmental Reading**

**DSPR**

**DSPR 0800 Fundamental Reading (3 credits)**—This course builds expertise in academic reading for university courses. Strategies taught in the course target the following: reading proficiency, acquisition of general vocabulary and discipline-specific terminology, recognition and expression of superordinate and subordinate concepts, interpretation of an author’s purpose, opinion, and tone, fluency in reading, thoughtful response to written information and narration, summarization, and research techniques. The graduation requirement is increased by three credits for students enrolled in this course.

**Developmental Study Skills**

**DSPS**

**DSPS 0800 Learning Strategies (3 credits)**—This course builds the student’s personal and academic management skills through work with the following topics: university resources and services for students, time management, cultural diversity, social management, career planning, note-taking, study strategies, test-taking concerns, and academic anxiety. The graduation requirement is increased by three credits for students enrolled in this course.

**Early Childhood Education**

**ECED**

**ECED 2010 Healthy and Safe Environments for Young Children (3 credits)**—A study of the basic principles of good health as they relate to the child in the family, childcare center, primary grade classroom, and the community.

**ECED 3150 Creative Development of Young Children (3 credits)**—Strategies for promoting the emergent creative dispositions of the young child are explored. Areas of focus include art, music, movement, play, dramatics, and creativity. Field participation is required.

**ECED 3160 Body/Brain-based Learning Environments (3 credits)**—Prerequisite(s): ECED 3220. The primary goals of the course are for students to learn about brain-based learning, physical development, emotional development, and the relationship between the body and brain and its impact on learning in the classroom. Various brain-compatible teaching strategies and activities will be explored.

**ECED 3220 Designing Physical Environments (3 credits)**—Students will learn how to design physical environments for young children focusing on play and the creation of effective learning centers for early childhood (Pre-K—4th grade) classrooms. Licensing standards and environmental rating tools will be explored, as well as the impact.

**ECED 4010 Observing and Assessing Young Children (3 credits)**—Prerequisite(s): ECED 3220. This course will cover assessment for children from birth to age five years of age. Both formal and informal instruments will be discussed with the emphasis on tools which can be used by teachers of young children. Considerations in choosing, administering, and reporting results of assessments will also be addressed. Field work is required.

**ECED 4130 Professional Issues in Early Childhood Education (3 credits)**—Prerequisite(s): ECED 3220, ECED 3410, ECED 4140 and be admitted to Teacher Education; Co-requisite(s): Students must be enrolled in ECED 4150, ECED 4161. This course investigates current issues in early...
childhood education, including advocacy in early childhood, professionalism, ethics, and professional standards. This course also examines issues related to professional and teaching portfolios, with each student's work presented in an individual portfolio representing the learning that occurred during the early childhood program.

**ECED 4140 Program Development for Young Children (3 credits)**—Prerequisite(s): Students enrolled in this course must have completed ECED 2010 and ECED 3220. This course will build on students' existing knowledge of the history of Early Childhood Education. It will introduce theories of learning and development with an emphasis on constructivist theory, which is central to our Early Childhood Program's philosophy. Class activities and field experiences allow students to develop an understanding of the relationship between these theories and developmentally appropriate practice. Early Childhood Curriculum Models (Pre-K — 4th grade), the role of the teacher, and the Code of Ethics for teaching will be explored. Candidates will learn about constructivist theory through readings, discussions, and practical application activities that will allow them to contrast this theory with other models of learning and development.

**ECED 4150 Literacy in Young Children (3 credits)**—Prerequisite(s): FA CS 2110, FA CS 2120, HD AL 3117, HD AL 3130, and admission to Teacher Education. Examines the development of literacy during the early years, birth to eight. Includes the study of environmental influences and methods that enrich or delay emerging literacy and language. Group activities for early childhood programs are explored. Writing Intensive Course.

**ECED 4161 Curriculum Development for Young Children (3 credits)**—Prerequisite(s): ECED 2010, FA CS 2120, ECED 3220, FA CS 3140, ECED 4140. This course analyzes children's thinking as it influences curriculum design in early childhood. It explores the educational needs of young children from ages 0 - 9 (Pre-K — 4th grade) in the cognitive realm of scientific, social, mathematical, and language learning. Field participation in early childhood settings is required.

**ECED 4257/5257 Mentoring in Early Childhood Education (3 credits)**—This course is designed to train Early Childhood professionals in effective methods and principles of mentoring adults who have varying levels of training. Emphasis will be on the role of the mentor as a facilitator of adult learning. As leaders, these mentors will be implementing change that can lead to improved quality in programs and classrooms that serve young children, birth through eight years of age.

**ECED 4347/5347 Technology and Media in Inclusive Early Childhood Education (3 credits)**—Prerequisite(s): Students must be admitted to Teacher Education. This course sets forth an integrated approach to curriculum in which social studies content, literature, and language arts skills are taught through five central themes. These central themes are Imagination, D-Discovery, E-Encounters, A-Adventures, and S-Synergy. Language arts skills—listening, speaking, reading, writing, and thinking—are integrated into social studies and literature experiences that are based on meaningful content and children's experience. Students are invited to get involved in a variety of creative activities and learning situations that range from individual inquiry to group interactions.

**ECED 4357/5357 Management and Administration of Early Childhood Programs (3 credits)**—Operational planning and administration for supervisors, administrators, and directors of programs for young children in public and private schools. Emphasis is placed on the director's role in staff recruitment, hiring, development, and evaluation. Leadership and management techniques are also studied and evaluated.

**ECED 4517/5517 Family, Community, and School K-8 (3 credits)**—Prerequisite(s): Admission to Teacher Education. The seminar is designed to provide input, feedback, and support for students during their student teaching experience. Formal and informal assessment of students in the classroom, student teaching reflections, curriculum planning and implementation, observation of other classroom environments, home visitsations with students during student teaching, and general discussion of the student teaching experience will be part of this course.

**Economics ECON**

**ECEN 4580 Student Teaching in Early Childhood Education (PreK—4) (6 credits)**—A supervised 15-week supervised experience in approved Early Childhood Pre-K and primary grade programs. Seminars will be held to coordinate and evaluate the student teaching experience.

**ECEN 4581 Seminar in Student Teaching in Early Childhood Education (3 credits)**—Prerequisite(s): Students must be admitted to Teacher Education. Corequisite(s): Taken in conjunction with student teaching (ECED 4580). The seminar is designed to provide input, feedback, and support for students during their student teaching experience. Formal and informal assessment of students in the classroom, student teaching reflections, curriculum planning and implementation, observation of other classroom environments, home visitsations with students during student teaching, and general discussion of the student teaching experience will be part of this course.

**ECEN 4582 Seminar in Student Teaching in Early Childhood Education (3 credits)**—Prerequisite(s): Students must be admitted to Teacher Education. Corequisite(s): Taken in conjunction with student teaching (ECED 4580). The seminar is designed to provide input, feedback, and support for students during their student teaching experience. Formal and informal assessment of students in the classroom, student teaching reflections, curriculum planning and implementation, observation of other classroom environments, home visitsations with students during student teaching, and general discussion of the student teaching experience will be part of this course.

**ECEN 4583 Seminar in Student Teaching in Early Childhood Education (3 credits)**—Prerequisite(s): Students must be admitted to Teacher Education. Corequisite(s): Taken in conjunction with student teaching (ECED 4580). The seminar is designed to provide input, feedback, and support for students during their student teaching experience. Formal and informal assessment of students in the classroom, student teaching reflections, curriculum planning and implementation, observation of other classroom environments, home visitsations with students during student teaching, and general discussion of the student teaching experience will be part of this course.

**ECON 1050 Economics and Society (3 credits)**—An examination of economics and its relationship to current issues and other social sciences. This course will examine the major components of the nation's economic systems, how they relate to political and other institutions, and their impact upon the national heritage, international relations, and current events.

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

**ECON 2219 Principles of Economics II (3 credits)**—Prerequisite(s): MATH 1530. Prepares students in the quantitative methods and data analysis methods commonly used in business with an emphasis on business applications utilizing methodologies such as fundamental algebra, systems of linear equations, differentiation, optimization, and business applications of probability and statistics.

**ECON 2220 Principles of Economics II (3 credits)**—A study of economics which concentrates on micro-theoretical concepts such as pricing, consumer choice, business production, and profit decisions.

**ECON 3030 Microeconomics: Theories of Business Behavior (3 credits)**—Prerequisite(s): ECON 2070, ECON 2210, and ECON 2220. An exposition of price theory and its applications.

**ECON 3040 Macroeconomics: Analysis and Policy (3 credits)**—Prerequisite(s): ECON 2070, ECON 2210, and ECON 2220. Determination of the aggregate level of income, employment, and price. An examination of economic policy fiscal policy, monetary policy, and income policy, as related to problems of inflation, recession, and economic growth.

**ECON 3088 Research Methods and Statistics - Honors (3 credits)**—Prerequisite(s): MATH 1530, ECON 2070, and ECON 2208. 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 solving, and data analysis.
East Tennessee State University identification, hypothesis testing, data analysis, and survey research. Statistical analysis topics include chi-square tests, Z and T tests, analysis of variance, regression and correlation, and nonparametric methods. Students will be expected to appoint members to their honors thesis committee and to prepare and present their thesis research proposal as part of the course requirements.

**ECON 3310 Monetary Economics (3 credits)**—Prerequisite(s): ECON 2210 and ECON 2220. Functions of the monetary systems of the American and international economies and their influence on economic activity.

**ECON 3700 History of Economic Concepts (3 credits)**—Prerequisite(s): ECON 1050 or ECON 2210/2220, and declared major. A study of the development of economic theory from Adam Smith to the present day.

**ECON 4018 Senior Honors Seminar (3 credits)**—Prerequisite(s): ECON 3088 and admission to the College of Business and Technology Honors Program. A seminar for College of Business and Technology honors students who are working on senior honors theses or other approved projects. Upon successful completion of the course, students will have demonstrated the ability to complete the research process by creating a written product suitable for submission to the College of Business and Technology faculty.

**ECON 4317/5317 Health Care Economics (3 credits)**—Prerequisite(s): ECON 2220 or prior approval needed. An overview of the economics of the health care industry. Topics include the production and pricing of health, the demand and supply of medical care and health insurance, the markets for physician and hospital services, health manpower, medical education, and the role of government and legislation in health care.

**ECON 4327/5327 Labor Economics (3 credits)**—Prerequisite(s): ECON 2210 and ECON 2220. Theoretical and real world operations of labor markets and labor relations systems in the United States, Europe, and Japan, including the role of labor unions, major issues in labor relations such as labor law reform, wage inequality, and employment discrimination.

**ECON 4337/5337 Government Finance and Public Choice (3 credits)**—Prerequisite(s): ECON 2210 and ECON 2220. The economic functions of government in a market-oriented economy. How governments allocate expenditures according to the preferences of individuals that comprise society. How governments raise money to finance their expenditures.

**ECON 4447/5447 Urban and Regional Economics (3 credits)**—Prerequisite(s): ECON 2210 and ECON 2220; or consent of instructor. An examination of the theories of urban and regional economic growth and development.

**ECON 4457/5457 Industrial Organization and Regulation (3 credits)**—Prerequisite(s): ECON 2210 and ECON 2220. An overview of the structure and performance of the United States economy. Review and evaluation of public policies adopted to improve economic performance, such as antitrust and public utility regulation. Current issues include competitiveness, deregulation, high technology, and foreign competition.

**ECON 4527/5527 International Economics (3 credits)**—Prerequisite(s): ECON 2210 and ECON 2220. Economic specialization and international trade and investment. The growth of the global economy and economic integration, the gains and losses to consumers and producers. Government policies to promote and/or restrict international business activities, and the role and operation of the international financial system. The rise of multinational companies and global markets.

**ECON 4610 Managerial Economics (3 credits)**—Prerequisite(s): ECON 2080, ECON 2210, and ECON 2220. Application of economic theory and statistics to various business and economic problems facing the management of a firm. Major topics include economic forecasting, demand analysis, cost analysis, pricing, investment decisions, and linear programming. This course is mathematically oriented.

**ECON 4900 Independent Study in Economics (1-3 credits)**—Designed for advanced students who, under the direction of an economics faculty member, wish to engage in independent research or an intensive study of subjects not covered in other available courses. Prior departmental and college approval is needed.

**ECON 4905 Economics Internship (3 credits)**—Prerequisite(s): Completion of a minimum of 6 credit hours in upper-division level courses within the student's major; junior or senior standing and a 2.7 (minimum) GPA. Students are selected through a competitive process for assignments in approved business or public-sector organizations as interns under the supervision of the internship coordinator and field placement supervisors. Students may not earn more than three semester credits for this course, which can be used as a free elective or an elective within a business major with prior approval by the chair.

**ECON 4957/5957 Topics in Economics (3 credits)**—Prerequisite(s): Senior or graduate standing and permission of instructor. This course gives students an opportunity to study special problems and new developments in the field of economics.

**Graduate Course Listing**

For Descriptions and Prerequisite(s) see the Graduate Catalog

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ECON 5000</td>
<td>Essentials of Economics</td>
<td>(3 credits)</td>
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<tr>
<td>ECON 5010</td>
<td>Essentials of Statistics</td>
<td>(3 credits)</td>
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<tr>
<td>ECON 5510</td>
<td>Current Social and Economic Issues</td>
<td>(3 credits)</td>
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<tr>
<td>ECON 5550</td>
<td>Independent Study in Economics</td>
<td>(3 credits)</td>
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**Foundations of Education**

**EDFN**

**EDFN 2100 Orientation to the Profession of Education (1 credit)**—This course will provide the student interested in the teaching profession with an overview of the opportunities, problems, and realities of teaching. Students will learn about matters concerning the requirements that must be met in order to complete the teacher education program at ETSU.

**EDFN 2300 Foundations for Teaching (2 credits)**—Prerequisite(s): EDFN 2100 and students must have met one of the state mandated test score requirements. This course is an introduction to the roles of the professional teacher, teaching as a career, and the teaching/learning process. Particular attention will be given to educating teachers as leaders for the 21st century. Field experience is required, 30 hours.

**EDFN 3301 Issues in Education (3 credits)**—Prerequisite(s): EDFN 2100 and EDFN 2300; or FACS 2120. Foundation of Early Childhood (if appropriate). Students must also be admitted to the Teacher Education Program prior to enrolling in this course. Issues in education are examined in the context of historical, philosophical, and sociocultural foundations of teaching. Issues of gender, social class, and ethnicity are discussed. Field experience is required.

**EDFN 4581 Seminar in Education (3 credits)**—Corequisite(s): Enrollment in Student Teaching. This seminar is designed to address issues of importance to student teachers. Seminar participants will focus on issues such as formal and informal assessment for instructional and motivational purposes, classroom management and discipline, skills in observing, analyzing, critiquing teaching for improvement, and practical application of principles to specific routine and non-routine situations in K-12 classroom. Field assignments will be completed during student teaching.

**Graduate Course Listings**

For Descriptions and Prerequisite(s) see the Graduate Catalog

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tr>
<td>EDFN 5000</td>
<td>History and Philosophy of Education</td>
<td>(3 credits)</td>
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<tr>
<td>EDFN 5010</td>
<td>Interdisciplinary Seminar</td>
<td>(3 credits)</td>
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<tr>
<td>EDFN 5050</td>
<td>Social and Political Influences on School</td>
<td>(3 credits)</td>
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<tr>
<td>EDFN 5400</td>
<td>Current Issues in Education Seminar</td>
<td>(3 credits)</td>
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<tr>
<td>EDFN 5405</td>
<td>The Profession of Teaching</td>
<td>(1 credit)</td>
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<tr>
<td>EDFN 5410</td>
<td>Foundations of Education</td>
<td>(3 credits)</td>
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<tr>
<td>EDFN 5411</td>
<td>Exploring School</td>
<td>(3 credits)</td>
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<tr>
<td>EDFN 5950</td>
<td>Methods of Research</td>
<td>(3 credits)</td>
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<tr>
<td>EDFN 6906</td>
<td>Independent Study in Foundations of Ed</td>
<td>(3 credits)</td>
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<tr>
<td>EDFN 6730</td>
<td>Foundations: Hist. &amp; Phil. Foundations of Ed</td>
<td>(3 credits)</td>
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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. Effective credit only. Does not apply toward the major or minor requirements.

ENGL 1006 English as a Second Language (3 credits)—International students may enroll in this sequence rather than in ENGL 1010-1020. English taught as a second language. Emphasis on composition, grammar, and comprehension of college-level texts.

ENGL 1008 English as a Second Language (3 credits)—International students may enroll in this sequence rather than in ENGL 1010-1020. English taught as a second language. Emphasis on composition, research, and comprehension of college-level texts.

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

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

ENGL 1018 Honors Composition I (3 credits)—Prerequisite(s): A C grade of 25 or permission of the English Honors Director. Writing essays based on critical reading of various texts, presupposes basic competency in grammar, mechanics, and organizational skills. Develops advanced degrees of stylistic and formal fluency and critical sophistication.

ENGL 1020 Critical Thinking and Argumentation (3 credits)—Prerequisite(s): ENGL 1010 or equivalent. Writing essays based on critical analyses of various literary texts. Emphasis on sound argumentative techniques. Requires documented research paper.

ENGL 1028 Honors Composition II (3 credits)—Prerequisite(s): ENGL 1010, ENGL 1018 or equivalent; 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 1218 Honors Quest for Meaning and Values I (3 credits)—Open to those in the Honors Scholars Program only. A rigorous course in the humanities that aims at deepening skills of critical reading and writing and at cultivating a broad cultural literacy.

NOTE: Students cannot receive credit for both ENGL 1218 and PHIL 1218.

ENGL 1228 Honors Quest for Meaning and Values II (3 credits)—Open to those in the Honors Scholars Program only. The second part of a humanities course that aims at developing cultural understanding while honing critical reading and writing skills.

NOTE: Students cannot receive credit for both ENGL 1228 and PHIL 1228.
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<tr>
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<tr>
<td>ENGL 3000</td>
<td>Introduction to Linguistics</td>
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<tr>
<td>ENGL 3118</td>
<td>Honors Literature Focus</td>
<td>3</td>
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<tr>
<td>ENGL 3128</td>
<td>Honors Special Topics</td>
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<tr>
<td>ENGL 3130</td>
<td>Advanced Composition</td>
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<tr>
<td>ENGL 3134</td>
<td>Computers, Writing, and Literature</td>
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<tr>
<td>ENGL 3141</td>
<td>Creative Writing I</td>
<td>3</td>
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<tr>
<td>ENGL 3150</td>
<td>Literature, Ethics, and Values</td>
<td>3</td>
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<tr>
<td>ENGL 3200</td>
<td>History of the English Language</td>
<td>3</td>
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<tr>
<td>ENGL 3270</td>
<td>Literature of Popular Culture</td>
<td>3</td>
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<tr>
<td>ENGL 3280</td>
<td>Mythology</td>
<td>3</td>
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<tr>
<td>ENGL 3290</td>
<td>Introduction to Film</td>
<td>3</td>
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<tr>
<td>ENGL 3300</td>
<td>Literary Criticism</td>
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<td>ENGL 3400</td>
<td>African American Literature I</td>
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<tr>
<td>ENGL 3500</td>
<td>Women Authors</td>
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<td>ENGL 3650</td>
<td>American Folklore</td>
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<td>ENGL 3700</td>
<td>The Bible as Literature</td>
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<tr>
<td>ENGL 4008</td>
<td>Honors Shakespeare</td>
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<td>ENGL 4010</td>
<td>British Novel</td>
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<td>ENGL 4012</td>
<td>American Novel</td>
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<td>ENGL 4017/5017</td>
<td>Children's Literature</td>
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<tr>
<td>ENGL 4018</td>
<td>Honors Thesis</td>
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<td>ENGL 4020</td>
<td>British Poetry</td>
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<td>ENGL 4022</td>
<td>American Poetry</td>
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<td>ENGL 4030</td>
<td>Modern Drama</td>
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<td>ENGL 4032</td>
<td>African Literature</td>
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<td>ENGL 4040</td>
<td>Modernism and Postmodernism</td>
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<tr>
<td>ENGL 4047/5047</td>
<td>African American Literature II</td>
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<tr>
<td>ENGL 4057/5057</td>
<td>Writing: Theory and Teaching</td>
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<tr>
<td>ENGL 4077/5077</td>
<td>Literature for Adolescents</td>
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<tr>
<td>ENGL 4087/5087</td>
<td>Themes in Women's Literature</td>
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<tr>
<td>ENGL 4090</td>
<td>Writing in the Professions</td>
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<tr>
<td>ENGL 4117/5117</td>
<td>Grammar and Usage</td>
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<tr>
<td>ENGL 4120</td>
<td>Descriptive Linguistics</td>
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<tr>
<td>ENGL 4129</td>
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<tr>
<td>ENGL 4130</td>
<td>Social and Psychological Aspects of Language</td>
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<td>ENGL 4137</td>
<td>Dialectology</td>
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<tr>
<td>ENGL 4200</td>
<td>Shakespeare and His Age</td>
<td>3</td>
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<tr>
<td>ENGL 4207/5207</td>
<td>Literature of the South</td>
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<tr>
<td>ENGL 4217/5217</td>
<td>Irish/Scottish Literature</td>
<td>3/5</td>
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Notes:
- ENGL 2138, ENGL 2238, ENGL 2338, or ENGL 2438 are prerequisites for various courses.
- Some courses are open only to those in English Honors Program.
- Course content varies due to different topics and emphases.
- May be repeated for credit when content changes.

East Tennessee State University
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, author, scholarly, and specialized. Emphasizes students' written expression of their own evaluations.

ENGL 4340 Topics in Film (3 credits)—Selected film topics not included elsewhere in course offerings such as sports films, African-American films, and films of Appalachia. May be repeated for credit when content varies.

ENGL 4417/5417 Teaching English in Secondary Schools (3 credits)—Prerequisite(s): A dmission to Teacher Education. Instruction in the methods and materials to be used by English teachers in secondary schools. Counts as professional education credit. Fall

ENGL 4507/5507 Literature in Film (3 credits)—Film adaptations of significant literary works.

ENGL 4690 Milton and His Age (3 credits)—Paradise Lost, Paradise Regained, Samson Agonistes, and selected short poetry. Examination of Milton's role as artist and thinker in his time and in the modern world.

ENGL 4700 Chaucer and His Age (3 credits)—The Canterbury Tales and other selections from the period.

ENGL 4857/5857 Technical Writing (3 credits)—Course emphasizes organization and presentation of technical material through effective applied writing, such as use of graphics, indexing, storyboarding, etc.

ENGL 4886 Studies in English (3 credits)—Study in selected topics/themes in literature.

ENGL 4897/5997 Creative Writing II: Fiction (3 credits)—Prerequisite(s): English 3141 or permission of the instructor. Advanced course in writing of fiction. Considerable attention to craft and form of stories written by acknowledged masters of genre.

ENGL 4917/5917 Creative Writing II: Poetry (3 credits)—Prerequisite(s): English 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 4989 Cooperative Education (1-3 credits)—Students must clear arrangements through the Cooperative Education office prior to registration. Only six credits allowed as part of major requirements. Planned and supervised work in business, industry, and government agencies. Students may alternate between periods (usually two semesters) of full-time study and employment with a C E employer. Credit received carries full academic value, and students receive compensation as full-time employees.

* Cross-listed with PHIL 1218
** Cross-listed with PHIL 1228

Graduate Course Listing
For Descriptions and Prerequisite(s) see the Graduate Catalog

ENGL 5019 Supervised Experience in Teaching ........................................... (3 credits)
ENGL 5020 Medieval Literature ................................................................. (3 credits)
ENGL 5029 Supervised Experience in Research .......................................... (3 credits)
ENGL 5039 Supervised Experience in Administration .................................. (3 credits)
ENGL 5060 Literature of Southern Appalachia ............................................ (3 credits)
ENGL 5160 Renaissance Literature ............................................................. (3 credits)
ENGL 5170 Teaching English as a Second Language .................................... (3 credits)
ENGL 5180 Internship in Teaching English as a Second Language ............. (3 credits)
ENGL 5190 Second Language Acquisition ................................................ (3 credits)
ENGL 5200 Restoration and 18th Century Literature ................................ (3 credits)
ENGL 5250 Eighteenth Century British Novel ........................................... (3 credits)
ENGL 5300 Victorian Literature ................................................................. (3 credits)
ENGL 5350 Romantic 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 5966 Readings and Research ......................................................... (1-3 credits)
ENGL 5989 Cooperative Education ......................................................... (variable)

Technology

ENTC 1038 Honors Orientation Seminar (1 credit)—Prerequisite(s): Admission to College of Business and Technology or University Honors Program. This course will fully orient the student to the College expectation for an honors student. Discussion and activities will relate to preparation for academic success and developing information technology skills.

ENTC 1110 Engineering Drawing (4 credits)—Technical communication including geometric construction, orthographic projection, auxiliary and section views, and pictorials with emphasis on sketching. Lecture and lab.

ENTC 1120 Manufacturing Processes and Specification (3 credits)—Prerequisite(s): ENTC 1110 or equivalent. The study of manufacturing processes and development of engineering documentation with particular emphasis on size specification and information processes required in a modern manufacturing environment and the physical processes involved in the manufacture of goods. Lecture

ENTC 1510 Student in University (2 credits)—This course is meant to provide guidance to first-year university students as they begin their search for directions to take in self-definition, intellectual growth, career choices, and life skills.

ENTC 1600 Introduction to Technology Education (3 credits)—A study of the technological processes central to communication, manufacturing, construction, transportation, and biotechnical systems. An analysis of the discipline of technology through its equipment, processes, products, problems, and the interrelationships of technological systems and our environment. Lecture and lab.

ENTC 1610 Woodworking Technology (3 credits)—Woodworking technology is an introductory-level course in woodworking and wood technology with a primary thrust on the development of both cognitive and manipulative aspects related to tools, materials, and processes found in modern wood-related industries. Stresses safety, construction techniques, and a study of allied occupations. Extensive laboratory experience will allow the student the opportunity to design and construct objects using wood and wood products. Lecture and lab.

ENTC 2038 Honors Professional Ethics (3 credits)—Prerequisite(s): A dmission to College of Business and Technology or U niversity Honors Program, and sophomore standing. A case-study approach to basic ethical issues likely to confront engineers, computer scientists, and family and consumer scientists in their professional practices.

ENTC 2170 CADD (Computer Aided Design Drafting) (4 credits)—Fundamentals of engineering drawing and sketching: orthographic projections, dimensioning, tolerancing, and scaling. Introduction to the CADD interface and environment; 2D drawing basics; using object snaps, layers, blocks, dimensioning; introduction to 3D modeling; extrusions, revolves, and rendering.

ENTC 2200 Machine Tool Technology (4 credits)—Prerequisite(s): ENTC 2170 and MATH 1720. The use of metalworking machine tools and accessories including the mill, lathe, saw, drill press, and surface grinder with emphasis on safety, precision measuring tools, and hand tools. Machining characteristics of commonly machined metals, cutting speeds, and feed rates. Cutting tool types, geometry, and applications. Lecture and lab.
ENTC 2310 Electrical Principles (4 credits)—Prerequisite(s): MATH 1720. Introduction to electricity, DC circuits, power, DC meters, conductors, insulators, capacitance, magnetism, and electromagnetic induction AC circuits, reactance, impedance, AC power, power factor, and resonance. Lecture and lab.

ENTC 2320 Electronics I (4 credits)—Prerequisite(s): ENTC 2310, MATH 1840. Devices, rectification, filters, voltage regulation, characteristic curves, graphical analysis of amplification, amplifier configurations, amplifier equivalent circuits, gain equations, static and dynamic load lines, and biasing. Lecture and lab.

ENTC 2330 Network Systems (3 credits)—Prerequisite(s): ENTC 2310. An introduction to network hardware. Both wire and wireless systems will be examined. Hardware for LAN and WAN systems will be examined.

ENTC 2410 Construction Fundamentals (4 credits)—Introduction to construction materials and systems. Emphasis on interpreting building prints and the analysis of materials of construction. Lecture and lab.

ENTC 2420 Residential and Commercial Planning (4 credits)—Prerequisite(s): ENTC 2410. An outline study of architectural styles. The design of an original residential or commercial building developed through consideration of site conditions, space requirements, and adaptability of materials. Student will develop plans and a model. Lecture and lab.

ENTC 2440 Mechanical Systems (4 credits)—Prerequisite(s): ENTC 2410/20, Consequences: PHYS 2010/11. A study of the terminology and methods associated with commercial HVAC (heating, ventilation, air conditioning, and cooling) and plumbing systems. Detailed exercises will be employed in the design of simple systems with emphasis on appropriate equipment types and sizes. Lecture and lab.

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

ENTC 3010 Statics and Strength of Materials (4 credits)—Prerequisite(s): MATH 1850 and PHYS 2010/11. The study of forces and their effects on statically determinate structures including a study of shear, moment and thrust diagrams, stresses and combined stresses, and properties of materials. Lecture and lab.

ENTC 3020 Technology and Society (3 credits)—Prerequisite(s): ENGL 1020. How does technology impact society and one's daily life? Historical aspects of the development of technology beginning with Stone Age peoples through the Industrial Revolution, to modern concepts. An atmosphere where group discussions struggle with some of the dilemmas of modern life.

ENTC 3030 Technical Communication (3 credits)—Prerequisite(s): ENGL 1010 and ENGL 1020. A comprehensive study of technical and professional communication in written and oral form. Covers rhetorical principles and their application in a variety of types of business correspondence, reports, and technical/scientific documents. Lecture and classroom exercises.

ENTC 3048 Honors Methods of Research (3 credits)—Prerequisite(s): Admission to College of Business and Technology or University Honors Program. Analysis of the materials and methods of research appropriate to Applied Science and Technology.

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

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

ENTC 3240 Engineering Materials and Testing (4 credits)—Prerequisite(s): ENTC 2200 and CHEM 1110/11. A study of modern engineering materials with emphasis on their chemical, physical, and mechanical properties. Experimental determination of structural and processing variables, service behavior, and industrial applications. Lecture and lab.

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

ENTC 3320 Electronics II (4 credits)—Prerequisite(s): ENTC 2320, ENTC 3310. Multistage amplifiers, coupling, frequency response, classes of amplification, power amplifiers, feedback amplifiers, sinusoidal oscillators, multi-vibrator circuits, and operational amplifier circuits. Lecture and lab.

ENTC 3331 RF Fundamentals (3 credits)—Prerequisite(s): PHYS 2010, PHYS 2011, MATH 1850. A study of the physical and optical characteristics of active and passive devices used in electronic instrumentation, and biomedical engineering technologies.

ENTC 3340 Electrical Machinery (3 credits)—Prerequisite(s): ENTC 2310. Motors, generators, alternators, motor controllers, three phase electrical systems, polyphase transformers, wattmeters. Lecture and lab.

ENTC 3350 Industrial Electronics (3 credits)—Prerequisite(s): ENTC 2320. SCR devices, silicon controlled rectifier circuits, relay circuits, timing circuits, photoelectric devices, unijunction transistors, diacs, triacs, saturable core reactors, rectification of three phase, industrial controls, programmable logic controllers, and fiber optics.

ENTC 3370 Electronics-Digital Circuits (4 credits)—Prerequisite(s): One computer science course. Introduction to digital logic, binary numbers and codes, Boolean algebra, gating networks, flipflops, counters, registers, arithmetic circuits, code conversion, decoding, and memory circuits. Lecture and lab.

ENTC 3400 Construction Materials (4 credits)—Prerequisite(s): ENTC 2410 and PHYS 2010/11. Study of materials used in highway and building construction including production and appropriate specifications and testing. Study includes design calculations and laboratory testing. Lecture and lab.

ENTC 3410 Construction Estimating and Planning (4 credits)—Prerequisite(s): ENTC 2420. Comprehensive study of building construction costs, including labor, materials, overhead, and hidden costs. Financing methods and legal requirements, site planning, and project development. Lecture and lab.

ENTC 3420 Advanced Construction Estimating and Planning (4 credits)—Prerequisite(s): ENTC 3410. An advanced study of estimation techniques and procedures associated with commercial construction. Included is an analysis of costs developed from complicated construction systems resulting in the preparation of bid proposals. Emphasis will be placed on network planning, particularly project scheduling and detailed quantity take-off methods of estimating using commercially available computer software. Lecture and lab.

ENTC 3430 Materials and Methods I (4 credits)—Prerequisite(s): ENTC 3010 and ENTC 2410. Methods, materials, and equipment required in the commercial construction areas of foundations, formwork, concrete, and masonry. Study will include design calculations and laboratory testing. Lecture and lab.

ENTC 3440 Materials and Methods II (3 credits)—Prerequisite(s): ENTC 3430. Methods, materials, and equipment required in the commercial construction areas of structural steel, heavy timber, roofing systems, building-related plastics, finishes, and specialties. Study will include sizing calculations where appropriate. Lecture.

ENTC 3600 Manufacturing Technology (3 credits)—Prerequisite(s): ENTC 2200. This course has as its primary emphasis the study of the management and production aspects of manufacturing. Students will have the opportunity to learn mass-production principles and methods, including the use of computers and robotics. Laboratory experiences will revolve around the design, planning, and mass production of an item.

ENTC 3610 Construction Technology (3 credits)—A course designed to develop an individual's knowledge and understanding of the
concepts, principles, practices, and problems found in the modern construction industry. Laboratory experiences involve activities in planning, use of tools, machines, and materials, computer applications, and construction practices as they relate to construction production systems.

ENTC 3620 Thermal and Fluid Technologies (4 credits)—Prerequisite(s): MATH 1840 and PHYS 2010/11. A study of the fundamentals of heat transfer and fluid flow. Topics include modes of heat transfer and material characteristics, hydraulics and fluid systems. Students will choose concluding topics of either hydrology or hydraulic control systems and pneumatics. Laboratory use of personal computers in data acquisition, experiment control, and report writing. Lecture and lab.

ENTC 3650 Applied Electricity and Electronics (4 credits)—Geared for construction technology and technology education students only or permission of instructor. Practical application of commercial house wiring and electrical code. Electrical machines and controls, electronic devices.

ENTC 3660 Communication Systems Technology (3 credits)—Prerequisite(s): ENTC 1110 or permission of instructor. A study of the basic principles of communication technology and communication systems. The primary focus is on the examination and operation of technical devices that aid human communication and the impact these devices and systems have upon society. Students will participate in a variety of classroom activities and laboratory exercises.

ENTC 3670 Energy/Power/Transportation (3 credits)—This general survey course focuses on the design and operating principles involved with the conversion, transmission, control, and alternate sources of power and energy. The course also explores the development and significance of energy and power and transportation systems to our economic structure. Lecture and lab.

ENTC 3680 Polymers and Composites (3 credits)—Prerequisite(s): ENTC 1120 and CHEM 1110/11. A study of the polymer and composites industries to include products and manufacturing processes, Thermoplastic and thermosetting class studies, injection molding, vacuum forming, and other subjects are explored. Lecture and lab.

ENTC 3710 Manual Numerical Control Programming (3 credits)—Prerequisite(s): ENTC 2170 and ENTC 2200. A study of the capabilities, programming procedures, advantages, and disadvantages of numerical control (N/C) and computerized numerical control (CNC) metalworking machine tools. Manual methods for generating, debugging, and running point-to-point and continuous path programs including linear and circular (3 credits) interpolation, camed cycles, loops, and subroutines to produce workpieces of increasing complexity. Lecture and lab.

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

ENTC 4017/5017 Industrial Supervision (3 credits)—Behavioral studies related to supervision. Supervisory functions, motivation, interviewing, and personal advancement. Lecture, case studies, discussions, and reports.

ENTC 4018 Honors Thesis (3 credits)—Prerequisite(s): Satisfactory completion of all college honors classes and advisor approval. This thesis is a capstone academic experience bringing into focus the result of the student’s learning and career interest.

ENTC 4037/5037 Quality Assurance I (3 credits)—Prerequisite(s): MATH 1530. Objectives of quality control in manufacturing. Control charts for variables, control charts for attributes, and lot by lot acceptance sampling for attributes (ANSI/ASQC Z1.4). The statistical approach to methods and procedures associated with quality assurance in manufacturing processes. Lecture

ENTC 4047/5047 Quality Assurance II (3 credits)—Prerequisite(s): ENTC 4037. Special process control charting defect, moving average, CuSum charts, sequential sampling, lot by lot acceptance for variables (ANSI/ASQC Z1.9), reliability testing, failure rate of a population, bathtub curve, and series/parallel math modeling for reliability. Lecture

ENTC 4048 Honors International Study (3 credits)—Prerequisite(s): Satisfactory completion of all CAST Honors courses or college honors committee approval. This course will consist of a two-week international study and cultural experience in addition to a pre-tour orientation.

ENTC 4060 Project Scheduling (3 credits)—Prerequisite(s): Junior/ Senior standing or instructor approval. A detailed study in planning, organizing, and controlling projects. Computer software is used to schedule projects. Emphasis is placed on time, resources, and capital considerations for the project. Lecture, team exercises, extensive laboratory, and presentations.

ENTC 4217/5217 Tool Design (4 credits)—Prerequisite(s): ENTC 3710. A study of the design concepts for industrial tooling including stamping dies, fixtures, and molds. Materials selection, heat treatment specifications, off-the-shelf tooling components, and make/buy decisions. Utilization of CAD and CNC to execute designs. Lecture and lab.

ENTC 4227/5227 Engineering Economy (3 credits)—Prerequisite(s): MATH 1720 or permission of the instructor. An economic study of manufacturing, amortization, cash flow, rates of return, depreciation, and present worth analyses. Lecture

ENTC 4237/5237 Ergonomics and Process Optimization (4 credits)—Prerequisite(s): MATH 1720 and MATH 1530. A study of methods used to improve production, set time standards, and analyze productivity. Lecture and lab.

ENTC 4247/5247 Industrial Operations Analysis (3 credits)—Prerequisite(s): ENTC 2200 and the MATH 1040, MATH 1060, MATH 1070, MATH 1080 sequence. Deterministic models including linear programming, quality, transportation, network analysis, graph theory, and inventory theory. For a second course see MATH 4957. Lecture

ENTC 4257/5257 Plant Layout and Materials Handling (3 credits)—Prerequisite(s): ENTC 1120 and ENTC 2200. Principles of plant layout, process and flow charts, machine location, auxiliary services, safety, and personnel organization. Materials handling methods and case studies emphasized. Lecture

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

ENTC 4277/5277 Instrumentation and Process Control (4 credits)—Prerequisite(s): ENTC 2310. Principles of measurement and control used in the manufacturing process industries. Theory and laboratory experience pertaining to modern instrumentation, pressure, temperature, liquid level, flow, and automatic controls including PLC’s, and microcomputers. Lecture and lab.

ENTC 4287/5287 Introduction to Robotics (3 credits)—Prerequisite(s): CSCI 2100 or permission of instructor. Theory, fundamental concepts, and applications of robotics and computer-aided manufacturing. History, robot elements and types, actuators and manipulators, programmable systems, vision systems, safety, robotic work cells, applications, and economic analysis. Lecture and lab.

ENTC 4307/5307 Telecommunications (4 credits)—Prerequisite(s): ENTC 4310. Analysis, theory, and applications of digital communication systems, emphasizing digital modulation and demodulation schemes and performance analysis techniques in the presence of noise.

ENTC 4310 Electronics-Communications (4 credits)—RF transmitting and receiving circuits, amplitude and frequency modulation and detection, phase modulation, antennas and RF transmission lines, multiplexing, television transmission, and reception. Lecture and lab.

ENTC 4337/5337 Microprocessors (4 credits)—Prerequisite(s): ENTC 3370 Introduction to microprocessors. Instruction is developed around a microprocessor trainer. Topics include assembly language programming, examples of hardware/software tradeoffs, interrupt system, alternative approaches to input/output and timing, the use of programmable LSI devices, and how microcomputers can communicate with external systems. Lecture and lab.

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ENTC 4347/5347 Digital Signal Processors (4 credits)—Prerequisite(s): ENTC 4337. A continuation of ENTC 4337. Instruction is developed around a microprocessor single board computer. Topics include review of microprocessor hardware and instruction set, arithmetic operations, serial data communications, interfacing analog devices, using interval timers, stepper motor control, and an introduction to troubleshooting. Lecture and lab.

ENTC 4350 Biomedical Instrumentation I (4 credits)—Prerequisite(s): HSCI 2020/21, PUBH 2750, ENTC 3320. A first course in biomedical instrumentation. Content includes hospital equipment safety, biopotentials, electrodes and transducers, the principles of electrocardiographs, pacemakers, defibrillators, IV pumps, catheters and ventilators, information flow, medical indications and complications, the patient-machine interface, how to teach others to use the equipment. Laboratory experiments on medical circuits will be studied or performed.

ENTC 4357/5357 CIM Applications (3 credits)—Prerequisite(s): Junior standing. An interdisciplinary course concerned with the concepts of business, computers, and manufacturing designed to explore the integration of these dynamic disciplines in the development of the Computer-Integrated Enterprise. Field trips, lab activities, and demonstrations will be used to support the lectures.

ENTC 4360 BMET Internship I (2 credits)—Prerequisite(s): HSCI 2020/21, PUBH 2750, ENTC 3320 Corequisite(s): ENTC 4350. The student will be assigned to a selected regional hospital for eight credits per week after the fourth week of classes, and then for 40 hr/week for three weeks after the semester ends. The student will work under the supervision of a senior BMET or clinical engineer. Assignments will include PM, calibration, troubleshooting and repair, and management of equipment taught in ENTC 4350. The student will be required to pass a pre-employment physical examination and have liability insurance before being assigned to internship.

ENTC 4370 BMET Instrumentation II (4 credits)—Prerequisite(s): ENTC 4350. A second course in biomedical instrumentation. Content includes biomedical equipment analysis, clinical lab equipment, ultrasonics, lasers, surgical equipment and troubleshooting of medical equipment.

ENTC 4380 BMET Internship II (2 credits)—Prerequisite(s): ENTC 4350, ENTC 4360 Corequisite(s): ENTC 4370. The student will be assigned to a regional hospital for eight credits per week for 15 weeks. The student will work under the supervision of a senior BMET or clinical engineer. Assignments will include hands-on repair, PM and calibration of and management of hospital equipment studied in ENTC 4370. The student may be required to pass a pre-employment physical exam and acquire liability insurance before being assigned to an internship.

ENTC 4390 Medical Imaging Equipment Technology (3 credits)—Prerequisite(s): ENTC 3320. Medical diagnostic equipment, including x-ray, ultrasonic equipment, ultrasonics, nuclear imaging, magnetic resonance imaging (MRI) and Position Emission Scanner will be discussed. Medical image processing based on Fourier analysis will be developed. Emphasis is on physical principles, information flow, patient interface, indications and hazards.

ENTC 4417/5417 Construction Financing and Administration (3 credits)—Prerequisite(s): ENTC 2410, ENTC 2420, CSCI 1010. A detailed study of the methods of financing construction projects, as well as the construction company. Included are a discussion of interest rates, bonds, insurance, amortization, and depreciation. Lecture

ENTC 4600 Technical Practicum (4 credits)—Prerequisite(s): Senior standing, ENTC 3030, and at least 24 credits in a technology concentration. A senior-level capstone course in advanced problem solving by organized team methods. Requires the student to synthesize and apply subject matter studies in previous required courses. For example, in manufacturing, students will draw upon their knowledge of product design and manufacturing methods to solve a complex problem. Units of instruction will include project planning (GANTT and PERT), human factors, design aesthetics, systems methods, and group dynamics. Major requirements include a team presentation and a comprehensive technical report. Lecture and lab.

ENTC 4617/5617 Vocational Guidance (3 credits)—An orientation to the value and use of vocational guidance for vocational education. The roles of people, as well as the tools for guidance will be studied along with determining ways and means of providing current career information to students. Meeting the needs of the disabled and disadvantaged in vocational classes will be explored.

ENTC 4637/5637 Evaluation in Industrial Education (3 credits)—Fundamental concepts and terminology of the testing movement. Classification, characteristics, and use of tests in industrial education. Construction of informal tests, use of standardized tests, and interpretation of test results are covered. Also, the use of advisory committees in the evaluation of industrial education courses and programs.

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

ENTC 4717 Computer-Assisted Numerical Control Programming (3 credits)—Prerequisite(s): ENTC 3710. A study of computerized methods for generating numerical control (N/C) programs utilizing (1) tool path definition software applicable to CADD drawing data bases and (2) N/C programming languages including APT and COMPACT II. Source program structure including initialization, geometry definition, cutter path definition statements, links, post processors, Syntax conventions, writing, running, and debugging source programs to generate list/cutter location files and tape files. Lecture and lab.

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

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

ENTC 4777/5777 Safety Management (3 credits)—Prerequisite(s): PSYC 1310, junior standing, or permission of instructor. A study of the methods of planning, organizing, and controlling a safety program. The study will include the safety problem, accident causation, motivational and marketing methods of safety, safety training and leadership, and a study of OSHA and TOSHA practices and procedures.

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

ENTC 4900 Independent Study in Technology (1-6 credits)—Prerequisite(s): Minimum of nine credits in the subject area and approval of the instructor who will supervise the study. An industrial problem by arrangement with a faculty member. An independent study plan technical report plus laboratory experiences required.

ENTC 4957/5957 Special Topics in Technology (2 credits)—Special topics of current interest to groups of students concerning content not presented in regular course offerings. May be repeated for credit if material covered is significantly different or advanced.

ENTC 4989-99 Cooperative Education (1-3 credits)
Environmental Health

ENVH 2989 Cooperative Education (1-3 credits)

ENVH 3010 Human Ecology and Environmental Education (3 credits)—Gives the student an understanding and appreciation of peoples’ relationships to their environment and the consequences of manipulation, alteration, and pollution of their natural habitat. Environmental education as a means of environmental improvement is emphasized.

ENVH 3030 Law and Ethics for Allied Health (3 credits)—Introduction to law and ethics necessary for allied health professionals to successfully function in the modern health care environment.

ENVH 3040 Environmental Sanitation (3 credits)—Not for environmental health majors. Deals with problems of general sanitation, water supply, disposal of excreta, insect and rodent control, sanitary control of milk, shellfish, and other foods, school and camp sanitation, and inspection services. Consideration given current problems in housing, heating, ventilation, and lighting.

ENVH 3100 Water Supplies and Wastewater Treatment (3 credits)—An introduction to water and wastewater treatment, municipal, semiprivate, and individual systems. Reviews sources, chemical and bacteriological quality, and water pollution.

ENVH 3400 Introduction to Air Pollution (3 credits)—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, camp sites, day nurseries, parks, schools, colleges, and industry.

ENVH 3700 Solid Waste Management (3 credits)—An investigation of the problems and solutions to the generation, storage, collection, and disposal of solid wastes, including aspects of vector control. Includes the management aspects of planning, organizing, designing, and operating refuse collection and disposal systems.

ENVH 3888 Honors Research Orientation (1 credit)—Prerequisite(s): A directed to ENVH Honors Program. An honors course introducing the principles, designs, methods, materials, and tools of research used in environmental health sciences. Students will identify and initiate a research project appropriate for the Honors Thesis.

ENVH 3989-99 Cooperative Education (3 credits)—May substitute for ENVH 4080.

ENVH 4000 Public Health Law (3 credits)—An introduction to Public Health Law, including a study of the legal powers available for implementing programs, methods for their most effective use, and recognition and management of legal problems, an analysis of the legal relationship of an environmentalist to the government, the staff, and the public. Not required of international students.

ENVH 4018 Honors Thesis Research (1-3 credits)—Prerequisite(s): ENV H Honors Program. Conduct honors research and complete the thesis. Variable credit (1-3) course, repeatable up to 6 credits.

ENVH 4080 Environmental Health Practice (3 credits)—Prerequisite(s): Open to environmental health majors only. Field experience in environmental health.

ENVH 4100 Shelter Environments (3 credits)—A course covering the principles of healthful housing and environment control of mobile homes, jails, motels, and hotels.

ENVH 4207/5207 Principles of Radiological Health (3 credits)—Prerequisite(s): CHEM 1110/11 or permission of instructor. The basic principles and procedures pertaining to the safe control of all common sources of ionizing radiation and the causes, effects, and control of radiation are included. The laboratory experiments include safety monitoring, radiation detection, and the use of survey meters.

ENVH 4340 Occupational Health (3 credits)—Prerequisite(s): CHEM 1110/11 or permission of instructor. Familiarizes the student with health problems encountered in industry and various occupations. The causes of occupational diseases and ways to prevent the diseases are emphasized. Introduction to types of radiation, with emphasis on controlling the amount of radiation a person receives.

ENVH 4347/5347 Ergonomics (3 credits)—A study of human factors engineering concerning people, their work, and the work environment. Includes a discussion of the ergonomics approach to the work environment, including sensory and motor control, workplace design, heat stress, noise, vibrations, illumination, the measurement of work, anthropometric data, and related topics.

ENVH 4357/5357 Toxicology (3 credits)—Prerequisite(s): CHEM 2010/11 and HSCI 3320; or permission of instructor. A study of the essentials of toxicology, including toxicity determinations and measurements, and biologic factors important in understanding toxicity. A review of toxic substances in air, water, foods, and the workplace with a consideration of exposure limits, their rationale and evaluation methods.

ENVH 4360 Industrial Hygiene Laboratory (4 credits)—Evaluation of chemical and physical hazards in industrial work places. Potential hazards include noise, glare, heat, dust, solvents, radiation, etc.

ENVH 4387/5387 Biological Analysis in Environmental Health (4 credits)—Prerequisite(s): A course in general microbiology; HSCI 3320/21 or HSCI 3330/31 and permission of the instructor. The principles of microbiology with emphasis on growth requirements and the effects of chemical and physical agents as used for control, principles of aquatic toxicology. Instrumentation used in qualitative and quantitative analysis of the biological environment.

ENVH 4397/5397 Environmental Analysis (4 credits)—Prerequisite(s): Seniors only; CHEM 1110/11, CHEM 1120/21, and permission of the instructor. Provides training in physical and chemical analysis of water, wastewater, food, air, and toxic materials, principles of applied toxicology. Experience in the use of chemical instruments, as well as field test kits, will be obtained.

ENVH 4400 Environmental Health Program Planning and Administration (3 credits)—Prerequisite(s): ENVH 3100, ENVH 3400, ENVH 3700, or permission of the instructor. A study in how to administer, plan, and evaluate environmental health programs. The availability of resources and the relationship with other health agencies are given.

ENVH 4500 Fundamentals of Occupational Safety and Health (3 credits)—Prerequisite(s): ENVH 3500 or permission of the instructor. This course considers the principles and practices of Safety and Health Fundamentals, Performance Management, Managing Change for Safety and Health Professionals, and the elements of a successful Safety and Health Program.
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EN VH 4607/5607 Food Sanitation Principles (3 credits)—Prerequisite(s): General microbiology, HSCI 3320/21, or HSCI 3330/31. A study of food composition, engineering principles, processing and preservation methods, food-borne diseases, and food regulatory programs.

EN VH 4610 Soil Science for Environmental Health (2 credits)
Survey of the chemical, biological, and physical concepts from soil science used in environmental health. Course covers soil formation, structure, and classification. Typical analytical procedures and soil characterization methods are described. Application to onsite wastewater treatment systems, municipal landfills, and hazardous waste landfills are covered.

EN VH 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.

EN VH 4727/5727 Hazardous Waste Operations and Emergency Response (3 credits)—The objectives of the course include giving the student basic concepts and techniques for appropriate behavior before, during, and after a hazardous materials incident. The course meets requirements to obtain 40-hour HAZWOPER certification. Three lecture hours per week.

EN VH 4888 Honors Seminar (1 credit)—Prerequisite(s): A student may apply for entry into the EN VH Honors Program. Students will orally present the results of their honors thesis research. Credit can be earned by presenting the research results at a professional meeting.

EN VH 4905 Independent Studies in Environmental Health (1-4 credits)

EN VH 4957/5957 Special Studies in Environmental Health (1-4 credits)

EN VH 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

EN VH 5100 Environmental Health Practice I ……………………………………….. (3 credits)

EN VH 5200 Environmental Chemistry …………………………………………….. (4 credits)

EN VH 5250 Environmental Microbiology ………………………………………….. (4 credits)

EN VH 5550 Air Pollution Principles ………………………………………………….. (3 credits)

EN VH 5600 Water Pollution Principles …………………………………………….. (3 credits)

EN VH 5610 Water Pollution Control ………………………………………………….. (3 credits)

EN VH 5640 Environmental Risk Assessment ………………………………………. (4 credits)

EN VH 5700 Industrial Hygiene and Safety ………………………………………….. (3 credits)

EN VH 5760 Industrial Ventilation ……………………………………………………. (3 credits)

EN VH 5780 Characteristics of Hazardous Materials ………………………………. (3 credits)

EN VH 5840 Solid Waste Management ………………………………………………. (3 credits)

EN VH 5841 Hazardous Waste Management ……………………………………….. (3 credits)

EN VH 5960 Environmental Health Administration ………………………………. (3 credits)

EN VH 5870 Public Health Law …………………………………………………….. (3 credits)

EN VH 5871 Hazardous Materials Laws and Regulations ………………………….. (3 credits)

EN VH 5890 Environmental Planning ………………………………………………. (3 credits)

EN VH 5900 Independent Study ……………………………………………………… (1-3 credits)

EN VH 5910 Seminar ………………………………………………………………… (1 credit)

EN VH 5960 Research and Thesis …………………………………………………….. (1-4 credits)

EN VH 5990 Readings and Research ………………………………………………….. (1-3 credits)

EN VH 5999-99 Cooperative Education …………………………………………… (variable)

Family & Consumer Sciences

FACS

FACS 1038 Honors Orientation Seminar (1 credit)—Prerequisite(s): A student may apply for entry into the College of Business and Technology Honors Program. This course will fully orient the student to the college experience for the honors student. Discussion and activities will relate to preparation for academic success and developing information technology skills.

FACS 1110 Family Development (3 credits)—The study of individual development beginning with infancy and continuing through the formation of the family. Basic concepts, principles, and issues in human and family growth will be stressed.

FACS 1410 Food Selection and Preparation (4 credits)—Food selection, preparation, and management for all food classifications. Consumer concerns and meal organization to meet nutritional needs. Laboratory activities will demonstrate desirable standard products. Laboratory

FACS 1500 Freshman Seminar (1 credit)—Required for all first semester FACS freshmen. Introduction to the Family and Consumer Sciences profession with a focus on career orientation. Goal setting, decision-making, and resource management as applied to personal and professional lives is emphasized.

FACS 1610 Historical Interiors (3 credits)—A historical survey of interiors from antiquity through the 19th century. Emphasizing the influence on today’s interiors and architecture.

FACS 1620 Introduction to Contemporary Interiors (3 credits)—Prerequisite(s): FACS 1610, A RTA 1110 or equivalent. An introductory study of the basic elements and principles for creative, comfortable, and aesthetically pleasing contemporary interiors. An emphasis is placed on the use of interior materials. Professional designer techniques are introduced.

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

FACS 2000 Preparation for Marriage (3 credits)—A study in human relationships, courtship, early marriage, alternatives, and variations. Special attention will be given to personal self-development, mate selection, role expectations, contraception and conception, child rearing and personal, social, and sexual adjustment in premarital, marital, and extramarital experiences.

FACS 2038 Honors Professional Ethics (3 credits)—A student may apply for entry into the College of Business and Technology or University Honors Program and sophomore standing. A case study approach to basic ethical issues likely to confront engineers, computer scientists, family and consumer scientists in their professional practices.

FACS 2110 Infant/Toddler/Child Development (3 credits)—A required course for students who plan to teach in early childhood education programs. An in-depth study of the physical, cognitive, and socio-emotional development of the child from birth through age nine. Development, care, and guidance of the child will also be examined in relationship to the various developmental theories. Family and other socialization agents will be explored.

FACS 2120 Foundations of Early Childhood Development (3 credits)—Permission of education professional advisor must be obtained for all TRED and ECDV majors. An overview of early childhood development and services for young children and their families. Will include historical roots, societal changes, the needs of young children, program differentiation, and future trends.

FACS 2200 Applied Design for Apparel and Interiors (2 credits)—An exploration of the application of elements and principles of design in apparel and interiors. Fundamentals involved in the art of design focus on individual, family, and community needs for apparel, home environment, and commercial/industrial products. The creative process and problem solving for functional design are emphasized.

FACS 2205 Principles of Clothing (4 credits)—Study of concepts involved in the use of commercial patterns to construct basic apparel products. Emphasis will be placed on construction principles and personal fit. Class meets double periods.

FACS 2220 Consumer Clothing Concerns (3 credits)—An exploration of clothing in relation to the individual, the family, and society. The social psychology of clothing and essential factors in consumer clothing decisions will be emphasized.

FACS 2420 Principles of Nutrition (3 credits)—Introduction of scientific nutrition principles with emphasis on nutritional requirements, dietary sources of nutrients, nutrient utilization, and the impact of nutrition on energy intake and weight control, fitness, disease prevention, the life cycle, food technology, food safety, and the environment.

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FACS 2480 Food Service Management Internship I (4 credits)—Prerequisite(s): FA CS 1410 and FA CS 2420. Students are selected through a competitive process for assignments in approved businesses of public-sector organizations as interns under the supervision of the field study coordinator. One hour per week will be a seminar devoted to current issues and problems.

FACS 2500 Sophomore Seminar (1 credit)—Exploration of family and consumer sciences careers through presentations by students and practicing professionals. Emphasis is placed on presentation techniques and strategies for evaluating oral presentations.

FACS 2611 Kitchen and Bath Planning (3 credits)—Prerequisite(s): FA CS 1610, FA CS 1620, FA CS 2620, A RTA 1110, or equivalent. Integration of task planning, movements, sensory mechanisms, and aesthetic considerations into supportive and attractive furnishings, equipment, accessories, and lighting in kitchen and bath.

FACS 2620 Design for Human Behavior (3 credits)—Exploration of the relationships between the designed environment and the behavior, feelings, and values of occupants. Introduction to proxemics, territoriality, way finding, and other environment/behavior concepts.

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

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

FACS 3030 Technical Communication (3 credits)—Prerequisite(s): E N G L 1010 and E N G L 1020. Preparation of written information on scientific and technical fields, including reports, specifications, handbooks, and papers designed for publication in technical and scientific journals. Exercises in oral communication as applied to scientific and technical fields will also be an integral part of the course.

FACS 3048 Honors Methods of Research (3 credits)—Prerequisite(s): Admission to the College of Business and Technology or the University Honors Program. Analysis of the materials and methods of research appropriate to Applied Science and Technology.

FACS 3110 Parent/Child/School Relations (3 credits)—A study of the parent-child relationship as it evolves from the prenatal period through adolescence. Theoretical approaches describing the parent-child socialization process will be examined with emphasis on the parenting environment and child outcomes.

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

FACS 3140 Guiding Young Children (3 credits)—The student will develop the skills and techniques necessary in handling behavioral and disciplinary issues of the child from birth through age nine. Student will also create and design creative experiences and activities for children from birth through age nine in a variety of professional settings.

FACS 3210 Apparel Quality Analysis (4 credits)—Prerequisite(s): FA CS 2205 or departmental approval. Application of advanced clothing construction techniques in the development of analysis skills for determining quality of apparel products. Construction skills, time management, solutions to problems of fit, and experience with contemporary fabrics and designs will be emphasized. Class meets double periods.

FACS 3220 Textiles I (3 credits)—Prerequisite(s): B I O L 1010/11 and B I O L 1020/21; or C H E M 1100/11 and C H E M 1120/21; or C H E M 1030 and P H Y S 1030; and junior standing. Study of textiles from fiber to finished fabric, with emphasis on fiber characteristics, yarn structures, and fabrications, which determine choice, uses, and care of textile products. All topics studied will emphasize a consumer point of view. New developments in legislation and current issues in textiles will be explored.

FACS 3221 Textiles II (3 credits)—Prerequisite(s): FA CS 3220 or departmental approval. Study of fabric classifications, finishes, and dyeing and printing processes. Emphasis will be placed on appropriate consumer choice, use and care of apparel and home furnishings, textile products, and will include discussion of textile and apparel economics, new developments in legislation, and current issues in textiles.

FACS 3230 Fashion Fundamentals (3 credits)—Prerequisite(s): junior standing. An overview of the fashion business. The influence of historic costume on modern dress, fashion terminology, design processes, techniques of analysis and prediction, and fundamentals of apparel manufacturing will be explored.

FACS 3340 Community Nutrition (3 credits)—Current trends in nutrition programs on the local, state, and national levels. Methods used to assess nutritional needs of populations. Influence of socioeconomic, cultural, and psychological factors on food and nutrition behavior of groups within a community.

FACS 3460 Experimental Food Science (4 credits)—Prerequisite(s): FA CS 1410 and C H E M 1120/21. Experimental study of ingredient functions and factors affecting product quality. Evaluations based on physical, chemical, and organoleptic properties of foods. Research design, methods, written, and oral presentation of individual experiments.

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

FACS 3470 Beverage Management in Foodservice Organizations (2 credits)—Prerequisite(s): FA CS 1410 and A C C T 2010; or departmental approval. An introduction to the control and management of beverage service in foodservice establishments. This course will review all types of beverages sold in the U.S. market and the specific industry and government guidelines for each. Inventory and cost control of beverages and beverage service will be examined.

FACS 3480 Food Service Internship II (4 credits)—Prerequisite(s): FA CS 2480. Students are selected through a competitive process of assignments in approved businesses of public-sector organizations as interns under the supervision of the field study coordinator. One hour per week will be a seminar devoted to current issues and problems.

FACS 3500 Junior Seminar (1 credit)—Prerequisite(s): FA CS 2500. Exploration of the value of lifelong learning and continuing professional involvement in family and consumer sciences through the development of a research paper exploring avenues for community involvement and volunteerism. Emphasis is placed on written research skills and evaluation of ethics in the workplace.

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

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

FACS 3625 AutoCAD for Interior Designers (3 credits)—Prerequisite(s): CSCI 1100 or computer competency. A technology-intensive course on computer-aided design skills specifically for interior design students through the use of AutoCAD software, architectural examples, and self-paced learning techniques.

FACS 3627 Materials and Methods (3 credits)—Prerequisite(s): FA CS 1620, FA CS 1621, and FA CS 3625. The study of materials and methods used to develop interior spaces. Emphasis on specifications and installation of interior elements such as lighting, flooring, wall, and ceiling
systems that make up the 3-dimensional nature of interior structures and conform to public health, safety, and welfare codes.

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

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

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

**FACS 4018 Honors Thesis (3 credits)**—Prerequisite(s): Satisfactory completion of all college honors classes and advisor approval. The thesis is a capstone academic experience bringing into focus the result of the student's learning and career interest.

**FACS 4048 Honors International Study (3 credits)**—Prerequisite(s): Satisfactory completion of all CBHT honors courses or college honors committee approval. This course will consist of a two-week international study and cultural experience in addition to a return orientation.

**FACS 4127/5127 Divorce: Causes and Consequences (3 credits)**—Explores the social-psychological impact of divorce on families. The economics, legal, social, emotional, co-parental, and former spouse consequences of divorces will be discussed. The various theoretical models explaining both the movement toward divorce, as well as the divorce transition, will be described. Special attention will be given to the impact of divorce on children.

**FACS 4137/5137 Youth Violence - Intervention to Prevention (3 credits)**—This course is designed to inform and train individuals in a variety of fields that deal with children and youth. The course is a combination of defining the concept of violence in society, evaluating current research in the field, and looking at practical strategies for developing protective factors for youth. Students will view various media representations of violence patterns and solutions, review current literature, and listen to some brief lecture material. The majority of time will be spent on student interaction with each other and the instructor.

**FACS 4217/5217 Furniture Marketing (3 credits)**—Prerequisite(s): senior standing. 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.

**FACS 4220 Fashion Merchandising (3 credits)**—Prerequisite(s): FA CS 3230. The study of merchandising procedures as they are applied to the marketing of apparel. Merchandising practice will be studied as a segment of the total apparel marketing system.

**FACS 4221 Merchandising Study Tour (1-3)**—Prerequisite(s): Junior standing and permission of instructor. The Apparel Merchandising Study Tour will acquaint students with major apparel market centers, providing exposure to design, manufacturing, and retail organizations of historic importance or current prominence. Interaction with professionals will be provided with a lecture series and a trip to selected United States or European market centers.

**FACS 4225 Merchandising Planning and Control (3 credits)**—Prerequisite(s): FA CS 4220 and MA TH 1530, MA TH 1840, or MA TH 1910. Merchandising Planning and Control is designed to help students become knowledgeable about the numerical terminology, concepts, and calculators that are the language of retail management. The concepts of sales, costs, expenses, profits, markups, markdowns, stock turns, open to buys, sales per square foot and returns on investments, help retailers plan activities that result in sales, monitor results against goals, and renew and assess performance for future decisions.

**FACS 4230 Merchandise Buying (3 credits)**—Prerequisite(s): FA CS 4225. The study of the purchase of apparel merchandise for resale to the ultimate consumer. The role of the buyer, including planning, buying, pricing, stockkeeping, and selling will be explored.

**FACS 4240 Visual Merchandising (3 credits)**—Prerequisite(s): A RTA 1110, A RTA 1140, and FA CS 4220; or departmental approval. An overview of the visual design process as it is applied to the merchandising of apparel and home furnishing products. Emphasis centers on the development of skills needed to plan, implement, and evaluate effective merchandise presentations in varied retail settings.

**FACS 4250 Advertising and Promotion (3 credits)**—Prerequisite(s): FA CS 4220. A study of the purposes and applications of advertising and promotion in the fashion industry, including procedures, methods, and techniques used in the organization, execution, and evaluation of various promotional activities.

**FACS 4260 Merchandising Seminar (3 credits)**—Prerequisite(s): FA CS 3230, FA CS 4220, and departmental approval. A capstone course designed to promote the application of concepts learned in merchandising courses by providing opportunities for analysis, synthesis, and evaluation. Success in the merchandising field is dependent upon the ability to analyze situations, make decisions, and communicate effectively with others in the retail organization. Management personnel must be able to promote customer service by demonstration as well as instructing other associates.

**FACS 4261 Merchandising Internship (3 credits)**—Corequisite(s): FA CS 4260 or departmental approval. Retail managers need to be problem-solvers, idea-generators, decision-makers, and action-takers. This course permits undergraduate students to complete a formal university internship, which meets these criteria with local retailers while completing coursework. The internship course experience fosters transference of knowledge and skill into competencies required for successful performance in a retail management career.

**FACS 4330 Family Management Through the Lifespan (3 credits)**—Prerequisite(s): FACS 1110, ECON 1050; or ECON 2210; or ECON 2220; or permission of instructor. A study of consumer and financial management problems encountered by today's families. Emphasis placed on consumer rights and responsibilities, legislation, fundamentals of buying habits, factors influencing consumer behavior, budgeting, credit, insurance, savings, taxes, and estate planning.

**FACS 4417/5417 Food Systems Operations (3 credits)**—Management principles, leadership, decision-making, and control of food service operations. Includes human resource and financial management, utilization of current technology, and computer assisted management control of the food service operation.

**FACS 4427/5427 Diet in Disease I (3 credits)**—Prerequisite(s): FA CS 3465, H SCI 3020 or equivalent; and BIOL 3000/01 or equivalent. Principles of clinical dietetics management, medical terminology, medical documentation, design, and implementation of nutrition care plans. Begin the application of principles of clinical nutrition to prevention and treatment of disease, drug-nutrient interaction, nutritional assessment, and nutritional support.

**FACS 4437/5437 Diet in Disease II (3 credits)**—Prerequisite(s): FA CS 3465, H SCI 3020, FA CS 4427/5427 or departmental approval. Assessment, treatment, and nutritional management of the patient with complicated disease states. Nutritional risk screening and nutritional treatment options to meet varying disease states and stages, and the role of the dietitian and nutritional therapy are discussed.

**FACS 4447/5447 Nutritional Biochemistry (3 credits)**—Prerequisite(s): FA CS 3465, H SCI 3020, or departmental approval. A study of nutrition as the science that integrates life processes from the cellular level on through the multi-system operation of the total organism. The focus will be on current trends in normal biochemical and physiological human nutrition.

**FACS 4457/5457 Nutrition Education (3 credits)**—Prerequisite(s): FA CS 3430, FA CS 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.
FACS 4467/5467 Quantity Food Procurement and Production (4 credits)—Prerequisite(s): FACS 1410. Application of menu writing and design, quantity food procurement, production planning, preparation, distribution, and evaluation in food service operations. Menu planning and analysis as the basis for control within the food service is emphasized, and sanitation and safety within the commercial food service operation are explored. This course has a three hour lab which provides hands-on food service experiences for the students.

FACS 4480 Food Service Management Internship III (4 credits)—Prerequisite(s): FACS 3480, FACS 4417, and FACS 4497. This course is designed to allow the students to gain an understanding of top level management, financial management, and marketing functions used within the foodservice operation. Students are selected through a competitive process for assignments in approved businesses of public-sector organizations as interns under the supervision of the field study coordinator. One hour per week will be a seminar devoted to current issues and problems.

FACS 4497/5497 Administration of Food Service Organizations (4 credits)—Prerequisite(s): FACS 1410, FACS 2420, or departmental approval. Review of commercial and noncommercial food service operations. Includes facilities planning, integration, marketing, and management with the food service industry. There is an emphasis on comprehensive food service design from the mission to the actual layout and staffing of the facility.

FACS 4500 Senior Seminar (1 credit)—Exploration of the role of family and consumer sciences in social systems, with emphasis on ethical issues in family and community life. Students will orally present research findings developed in FACS 3500, and prepare and submit graduation papers in consultation with departmental chair.

FACS 4537/5537 Field Studies (3-9 credits)—Prerequisite(s): Senior standing and departmental approval. Supervised field studies in student's major area of interest.

FACS 4547/5547 Corporate Etiquette (3 credits)—Designed to help students present themselves with confidence to outclass the competition. Topics covered include introductions, conversation skills, working a room, business attire, dining in corporate America, wine selection, resume writing, interviewing, international business and more. Skills should help you obtain a job, advance to a higher position, and make career changes.

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

FACS 4611 Hospitality: Studio V (3 credits)—Prerequisite(s): FACS 4610 and departmental approval. Complex problem-solving in hospitality design. Involvement with historic rehabilitation or preservation, government policies and/or community issues.

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

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

FACS 4700 Family and Consumer Sciences Curriculum and Methods (4 credits)—A comprehensive overview of family and consumer sciences education programs and their place within the educational curriculum. Emphasis placed on the organization and administration of the family and consumer sciences education programs. Program planning, methodology, teaching strategies and techniques, and teaching-learning process, and program evaluations examined. Students will be provided experiences in curriculum development and observation in an educational setting.

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

FACS 4957/5957 Special Topics in Family and Consumer Sciences (3 credits)—Selected subjects in student's area of interest in areas not included elsewhere in course offerings. May be repeated for credit when content varies.

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

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

FACS 510 Seminar in Nutrition .................................................... (1 credit)
FACS 520 Maternal-Child Nutrition ............................................. (3 credits)
FACS 521 Lifespan Nutrition Practicum I ...................................... (2 credits)
FACS 522 Lifespan Nutrition Practicum II .................................... (2 credits)
FACS 523 Lifespan Nutrition Practicum III ................................... (3 credits)
FACS 530 Complex Adult Nutritional Care .................................. (3 credits)
FACS 531 Medical Nutrition Therapy Practicum I ......................... (2 credits)
FACS 532 Medical Nutrition Therapy Practicum II ........................ (2 credits)
FACS 533 Medical Nutrition Therapy Practicum III ....................... (2 credits)
FACS 5460 Advanced Nutrition Therapy ..................................... (3 credits)
FACS 5451 Nutrition & Food Systems Management Practicum I ....... (2 credits)
FACS 5452 Nutrition & Food Systems Management Practicum II ........ (2 credits)
FACS 5453 Nutrition & Food Systems Management Practicum III .......... (2 credits)
FACS 5460 Capstone Research Project ........................................ (3 credits)
FACS 5900 Independent Study .................................................... (1-9 credits)
FACS 5909 Thesis ........................................................................ (1-3 credits)
FACS 5990 Readings and Research .............................................. (3 credits)

Family/Community Nursing

FCNU 2010 Care of Communities I (2 credits)—Prerequisite(s): A admission to the nursing major or permission of the department. Community assessment is the focus of this course considering historical, social, political, economic, environmental, cultural, and ethical issues. Based on application of epidemiological principles to actual community assessments, population-focused prevention strategies are planned.

FCNU 2030 Health Assessment (4 credits)—Prerequisite: A admission to the major or permission of the department chair; Prerequisite(s) or Corequisite(s): HSCI 2010/11, HSCI 2020/21, and PMNU 2310. The health assessment course focuses on the acquisition of strong history-taking and physical examination skills primarily in a laboratory setting, with select community experiences. Special emphasis will be placed on the transcultural considerations involved in health assessment and the physical examination of varied adult populations, as well as select family groups.

FCNU 3028 Health Assessment for Public Health Nurses (3 credits)—Prerequisite(s): HSCI 3000 or equivalent; Current active licensure as a registered nurse in Tennessee. A health assessment course designed for public health nurses with emphasis on the acquisition of history-taking skills and physical examination techniques in the laboratory setting. Students will learn skills primarily related to pediatric and young and middle-aged adult clients.

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

FCNU 3070 Care of Young Adults and Childbearing Families (3 credits)—Prerequisite: Completion of first semester, junior courses. Course content focuses on the health care of young adults as clients within the family and as members of the community. Reproductive health is a core component of the course with emphasis on nursing assessment, family planning, health promotion, and risk reduction during the childbearing cycle.

FCNU 3080 Care of Children and Their Families (3 credits)—Prerequisite: Completion of first semester, junior courses. The course focus is on the care of infants and children from birth to preadolescence experiencing
FCNU 3300 Promoting Academic Success in Nursing (1 credit)—Prerequisite(s): A division to the nursing major. This course is designed to promote academic success in nursing students through their understanding of test taking and study skills, and the application of these skills on nursing tests.

FCNU/ALNU/PMNU 4008 Honors Mentorship in Nursing (1 credit)—Prerequisite(s): A completion 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. Course may be taken twice for credit.

FCNU/ALNU/PMNU 4018 Nursing Honors Thesis (3 or 6 credits)—Prerequisite(s): A division to the College of Nursing Honors Program, Honor in Discipline Program or permission of instructor. An independent course for the senior-level honors student to complete a thesis suitable for presentation. The written paper will demonstrate scholarship, basic understanding of the research process, and relevance to professional trends and issues.

FCNU 4037/5037 Community Concepts for Public Health Nurses (3 credits)—Prerequisite(s): Licensed Registered Nurse or permission of the instructor. This course is primarily designed for nurses working in the public health field. Principles of community assessment, program development, and evaluation will be based on prior work experiences of the students. Development of community partnerships and community leadership will be emphasized.

FCNU 4040 Care of Communities II (3 credits)—Prerequisite(s): Completion of junior-level nursing courses 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 will be based on earlier work within a community of choice.

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

FCNU 4507/5507 Social Concerns and Women’s Health (3 credits)—This course addresses the historical perspectives and current status of women’s health, special concerns related to women’s health and the economic, political, and cultural factors which impact women’s health.

FCNU 4807/5807 Global Health Issues (3 credits)—Prerequisite(s): Health science division major or permission of instructor. This course is designed for both health science division students and health care providers interested in increasing their understanding of international and cross-cultural health. The course focuses on issues and skills that will enhance the practice of health science personnel, especially those intending to apply their skills in settings outside the United States. Elective

FCNU 4900 Nursing Independent Study (1-3 credits)

FCNU 4907/5907 International Primary Health Care Practicum (3 credits)—Prerequisite(s): FCNU 4807/5807 or the equivalent. Undergraduate nursing students must have completed junior-level nursing courses or obtain permission of instructor. This course is designed for participants to directly experience cross-cultural and/ or international health care to increase their health care delivery skills and understanding of other health care systems. Students will travel and live in the context of the host culture. All travel-related costs are met by the participating student. Elective

FCNU 4957/5957 Special Topics in Nursing (1-6 credits)—Prerequisite(s): Permission of the instructor. Special topics related to nursing and health care will be presented. Course may include didactic and experiential methods of instruction. Course may be repeated for credit content is significantly different or advanced.

FCNU/ALNU/PMNU 4989 Cooperative Education in Nursing (1-3 credits)—Prerequisite(s): Permission of department chair. This course, with 1-3 credits as arranged, allows the student to spend time in a career-related work experience. Formal agreements are established by the university and the employer to help students accomplish specific educational outcomes. Elective

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

FCNU 5021 Life Span Assessment and Clinical Management: Women’s Health

FCNU 5022 Life Span Assessment and Clinical Management: Women’s Health Practicum

FCNU 5023 Life Span Assessment and Clinical Management: Children and Adolescents

FCNU 5024 Life Span Assessment and Clinical Management: Children and Adolescents Practicum

FCNU 5900 Independent Study .......................................................... (1-3 credits)

FCNU 5900 Internship in Advanced Nursing Practice ................................ (4 credits)

FCNU 5900 Thesis ............................................................................. (1-6 credits)

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

FCNU 6014 Measurement of Clinical Outcomes .................................... (3 credits)

FCNU 6016 Collaborative Approaches to Practice ..................................... (3 credits)

FCNU 6030 Quantitative Methods in Nursing Research ......................... (3 credits)

FCNU 6690 Doctoral Dissertation ......................................................... (1-12 credits)

FCNU 6990 Readings in Research ....................................................... (1-3 credits)

Finance

FNCE

NOTE: All students enrolling in upper-division, 3000-4000 level, College of Business

and Technology courses must have junior or senior standing.

FNCE 2220 Personal Finance (3 credits) — this course is not open to

seniors majoring in the college of business. A consumer-oriented introduction
to finance. Budget priorities, credit, interest rates, insurance, investments,
housing, and estate planning are all treated in a straightforward manner.

FNCE 3120 Principles of Real Estate (3 credits)—Prerequisite(s): ECON 2210 and ECON 2220; or consent of instructor. A study concerning economic, social, financial, and legal problems involved in acquiring, holding, and disposing of real estate.

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

FNCE 3220 Business Finance (3 credits)—Prerequisite(s): A CBT 2010. Emphasis upon the decision-making tools used in financial management including ratio analysis, operating and financial leverage, interest factors, capital budgeting, valuation, cost of capital, and dividend policy.

FNCE 3300 Principles of Investment (3 credits)—Prerequisite(s): FNCE 3220. Stock, bond, and option markets, mutual funds, the stock brokerage business, investment advisory services, introduction to the basics of investment decision-making.

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

FNCE 3600 International Financial Markets (3 credits)—Prerequisite(s): FNCE 3220. This course covers topics such as an overview of international monetary systems, market structure and institutions, international parity conditions, foreign exchange rate determination and forecasting, foreign exchange market efficiency, currency and interest rate, options, and swaps regulation and intervention.

FNCE 4018 Senior Honors Seminar (3 credits)—Prerequisite(s): ECON 3088 and admission to the College of Business and Technology Honors Program. A seminar for College of Business and Technology honors students who are working on senior honors theses or other approved projects. Upon successful completion of the course, students will have demonstrated the...
ability to complete the research process by creating a written product suitable
for submission to the College of Business and Technology faculty.

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

**FNCE 4330 Real Estate Finance (3 credits)**—Prerequisite(s): FNCE 3120 or FNCE 3220. A study of the various sources of funds for financing real estate transactions, and of problems encountered in financing real estate.

**FNCE 4340 Real Estate Brokerage (3 credits)**—Prerequisite(s): FNCE 3120, FNCE 3220, or consent of instructor. A study of agency operations, including listing, prospecting, advertising, showing property, and closing transactions.

**FNCE 4350 Real Estate Management (3 credits)**—Prerequisite(s): FNCE 3120 or consent of instructor. A basic course dealing with the functions, qualifications, and responsibilities of the property manager. The nature and kinds of property with which the manager might be involved are discussed.

**FNCE 4360 Real Estate Appraisal Problems (3 credits)**—Prerequisite(s): FNCE 4320. A course designed to study appraisal problems in actual field situations, as well as in the classroom.

**FNCE 4447/5447 Banking and Financial Intermediation (3 credits)**—Prerequisite(s): FNCE 3220 and ECON 3310. The workings of financial markets and institutions with special reference to banking.

**FNCE 4500 Credit Management (3 credits)**—Prerequisite(s): FNCE 3220. The nature and importance of credit. An analysis of principles underlying the extension of credit and the management of credit operations.

**FNCE 4520 Bank Policy (3 credits)**—Prerequisite(s): FNCE 4447. A course in bank management Emphasis will be placed on key financial concepts and their application in financial management decisions Use of case problems

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

**FNCE 4597/5597 International Financial Management (3 credits)**—Prerequisite(s): FNCE 3300 and FNCE 3500. Financial problems of multinational corporations including the theory of capital movements, foreign exchange markets, concepts of the balance of payments mechanisms, trade policy, and the functioning of the international monetary systems.

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

**FNCE 4620 Financial Analysis and Policy (3 credits)**—Prerequisite(s): FNCE 3300, FNCE 3500, and senior standing. An integrative course designed to provide insight and experience in problem solving in finance. The course utilizes cases and computer applications. This is the capstone course for all finance majors.

**FNCE 4697/5697 International Investments (3 credits)**—Prerequisite(s): FNCE 3220 and FNCE 3300; or permission of the instructor. To immerse you in the world of international investments. Advanced course designed to equip students with the theoretical background, quantitative skills, and practical tools required to be successful managers in the field of international investments. Topics will include a review of parity conditions, foreign exchange rate forecasting, benefits of international diversification, international asset pricing, international equity markets, instruments, concepts and techniques, emerging stock market futures options, international performance analysis, and structuring the international process.

**FNCE 4900 Independent Study in Finance (1-3 credits)**—A course designed for advanced students who, under the director of a finance faculty member, wish to engage in independent research or an intensive study of subjects not covered in other available courses. Prior departmental and college approval is needed.

**FNCE 4905 Banking Internship (3 credits)**—Prerequisite(s): Completion of, at least, six credit hours at the upper-division level in the student’s major, junior or senior standing, and a 2.7 GPA or above. Students are selected through a competitive process for assignments in approved financial institutions as interns under the supervision of the internship coordinator and field placement supervisors. Students may not earn more than three semester credits for this course which can be used as a free elective or an elective within a business major with prior approval by the chair.

**FNCE 4906 Finance Internship (3 credits)**—Prerequisite(s): Completion of, at least, six credit hours at the upper-division level in the student’s major, junior or senior standing, and a 2.7 GPA or above. Students are selected through a competitive process for assignments in approved business or public-sector organizations as interns under the supervision of the internship coordinator and field placement supervisors. Students may not earn more than three semester credits for this course which can be used as a free elective or an elective within a business major with prior approval by the chair.

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

### Graduate Course Listing

**For Descriptions and Prerequisite(s) see the Graduate Catalog**

- **FNCE 5000 Essentials of Finance**
- **FNCE 5430 Financial Management**
- **FNCE 5470 Seminar in Banking**
- **FNCE 5490 Security Analysis and Portfolio Management**
- **FNCE 5600 Case Study in Banking**
- **FNCE 5900 Independent Study in Finance**

### Foreign Languages

(See LANG)

**French**

- **FREN 1010-20 Beginning French (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 credits)**—A continuation of first year, with an introduction to French literature.
- **FREN 3010-3110 French Conversation and Composition (3 credits)**—Practice in conversation, with emphasis on idioms, syntax, and current expressions. Study of grammar through compositions.
- **FREN 3210 Readings in French (3 credits)**—A study of techniques and strategies to improve reading skills in French.
- **FREN 3310 French Civilization (3 credits)**—Geography, history, and culture of France.
- **FREN 3510 Survey of French Literature Before 1700 (3 credits)**—Study of major French authors from the Middle Ages through 1700.
- **FREN 3610 Survey of French Literature After 1700 (3 credits)**—Works of major French authors from the 18th century through the present.
- **FREN 4017/5017 Advanced French Grammar (3 credits)**—Prerequisite(s): FREN 2020 or permission of instructor. This course focuses on an in-depth review of troublesome aspects of French grammar complemented by contextual analyses drawn from cultural and/or literary readings selections.
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**FREN 4018 Honors Thesis (3-6 credits)**—Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

**FREN 4117/5117 French Drama from 1600 to the Present (3 credits)**—Selected plays from major French dramatists from 1600 to the present.

**FREN 4217/5217 Sixteenth Century French Literature (3 credits)**—Selected works by the principal 16th century writers and poets of the Renaissance.

**FREN 4317/5317 Seventeenth Century French Literature (3 credits)**—Selected works from the prose, poetry, and theatre of the principal authors of the Classical Period.

**FREN 4337/5337 French Phonetics and Pronunciation (3 credits)**—A study of the International Alphabet, incorporating phonetic dictation and transcription.

**FREN 4417/5417 Eighteenth Century French Literature (3 credits)**—Selected works of the French philosophers and authors of the Age of Reason.

**FREN 4517/5517 Nineteenth Century French Literature (3 credits)**—Selected works from the poetry and prose of the major authors of French Romanticism.

**FREN 4617/5617 Twentieth Century French Literature (3 credits)**—Selected works from the prose and poetry of major French authors of the 20th century.

**FREN 4900 Special Studies in French (1-3 credits)**—Designed to provide opportunities for study in areas not provided for in the regular course offerings for undergraduates. Students desiring to enroll must obtain permission from the instructor.

**FREN 4957/5957 Topics in French (3 credits)**—This course gives the students an opportunity to study special problems and new developments in the field of French.

**Graduate Course Listing**

For Descriptions and Prerequisite(s) see the Graduate Catalog

**FREN 5900 Special Studies in French ........................................... (1-6 credits)**

**Geography**

**GEOG 1012 Introduction to Cultural Geography (3 credits)**—A survey of the spatial characteristics and value systems of cultures throughout the world.

**GEOG 1013 Introduction to World Regional Geography (3 credits)**—A survey of the major regions of the world with emphasis on their physical and cultural interrelationships.

**GEOG 1038 Honors Orientation Seminar (1 credit)**—Prerequisite(s): Admission to the College of Business and Technology or University Honors Program. This course will fully orient the student to the College expectation for an honors student. Discussion and activities will relate to preparation for academic success and developing information technology skills.

**GEOG 1110 Earth Science: Weather and Climate (4 credits)**—An introduction to atmospheric processes and geographic distribution of radiation, moisture, pressure, and circulation interacting to create weather systems and storms, oceanic influences, earth-sun relationship, global climate patterns, human interaction with atmosphere. Three lecture, two lab credits per week.

**GEOG 1120 Earth Science: Landforms and Processes (4 credits)**—An introduction to the agents and processes of landform development. Emphasis is also placed on distribution of landform systems and human impacts on these systems. Three lecture credits, two lab credits per week.

**GEOG 1510 Student in University (3 credits)**—This course is meant to provide guidance to first-year university students as they begin their search for directions to take in self-definition, intellectual growth, career choices, and life skills.

**GEOG 2038 Honors Professional Ethics (3 credits)**—Prerequisite(s): A dmission to the College of Business and Technology or University Honors Program and sophomore standing. A case-study approach to basic ethical issues likely to confront engineers, computer scientists, family and consumer scientists, geographers, and surveyors in their professional practices.

**GEOG 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 modern urban-industrial society.

**GEOG 3020 Economic Geography-Agricultural and Extractive Industries (3 credits)**—A study of the spatial distribution and characteristics of agricultural and extractive industries of the world.

**GEOG 3030 Technical Communication (3 credits)**—Prerequisite(s): ENGL 1010 and ENGL 1020. A comprehensive study of technical and professional communication in written and oral form. Covers rhetorical principles and their application in a variety of types of business correspondence, reports, and technical/scientific documents. Lecture and classroom exercises.

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

**GEOG 3048 Honors Methods of Research (3 credits)**—Prerequisite(s): Admission to the College of Business and Technology or University Honors Program. Analysis of the materials and methods of research appropriate to Applied Science and Technology.

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

**GEOG 3090 Meteorology and Climatology (4 credits)**—A study of atmospheric elements and processes and climatic controls and patterns as they influence and are influenced by human life.

**GEOG 3120 Introduction to Geography of Southern Appalachia (3 credits)**—A study of spatial organizations, compositions, interrelations, and interactions which characterize the Southern Appalachian region.

**GEOG 3210 Cartography (3 credits)**—Prerequisite(s): MATH 1040 or permission of the instructor. An application of the principles of map construction, compilation, and the techniques of map drawing and map reading.

**GEOG 3300 Political Geography (3 credits)**—A study of the geographic foundations of a state in terms of national power. An evaluation of geopolitical theories and practices, territorial and commercial rivalries, and basic concepts of military strategy.

**GEOG 3389-99 Cooperative Education (1-3 credits)**

**GEOG 4007/5007 Geography of the United States (3 credits)**—A regional study of the physical and cultural elements of the United States.
GEOG 4017/5017 Advanced Cartography (3 credits)—Prerequisite(s): GEOG 3210 or permission of instructor. A second course in the study of the science and art of mapmaking. Emphasis placed upon three components of modern cartography—the input, storage, and output of digital spatial data, advanced and contemporary thematic mapping techniques, and computer-assisted map design. Topics are presented during lecture and applied by the students in laboratory settings. Students also gain experience in developing and implementing their own individualized map projects.

GEOG 4018 Honors Thesis (3 credits)—Prerequisite(s): Satisfactory completion of all college honors classes and advisor approval. This thesis is a capstone academic experience bringing into focus the result of the student’s learning and career interest.

GEOG 4048 Honors International Study (3 credits)—Prerequisite(s): Satisfactory completion of all College of Business and Technology Honors courses or college honors committee approval. This course will consist of a two-week international study and cultural experience in addition to a pre-tour orientation.

GEOG 4077/5077 Seminar in Geography of Southern Appalachia (3 credits)—A seminar in the use of geographic methodology in the study of regional Appalachian issues.

GEOG/URBS 4107/5107 Urban Geography and Planning (3 credits)—A geographical analysis of cities and urban regions. Urban growth patterns, location and interaction analysis, planning for urban regions, and travel behavior are emphasized.

GEOG 4117/5117 Resource Management (3 credits)—The study of cultural attitudes, conceptual approaches, and evaluation techniques in resource management. Analysis of selected resource issues at various areal scales.

GEOG 4217/5217 Geographic Information Systems (3 credits)—Prerequisite(s): GEOG 3210 or permission of instructor. The field of GIS is relatively new and expanding and is concerned with techniques and theory of cartographic and spatial data rectification and enhancement and spatial information extraction.

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

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

GEOG 4257/5257 Geography of Soils (3 credits)—An introduction to soil science. Particular attention is focused on soil morphology, soil classification, and the study of distributional patterns of soils and their relationships to other geographical elements.

GEOG 4267/5267 Hydrology (4 credits)—The study of water as it occurs in all phases of the hydrologic cycle and the analysis of currently developing water problems on the local, regional, and national levels.

GEOG 4307/5307 Regional Geography (3 credits)—Under this cover title, individual courses will be offered in such areas as Europe, Latin America, Asia, Soviet Union, and Africa. Course may be repeated as subject matter changes.

GEOG 4317/5317 Advanced Geographic Information Systems (3 credits)—A critical examination of the contemporary issues involved with Geographic Information Systems and digital spatial data. One-half of the course content will be dedicated to practical training on the sophisticated vector-based GIS software called Arc/Info. A hands-on understanding of the nature and functionality of this software will be acquired within a workstation computer environment.

GEOG 4417/5417 The Teaching of Geography and Earth Science (3 credits)—A course in methods and materials for teaching geography in grades 7-12, which will include teaching experiences in an area school.

This course earns education credit only and does not meet requirements for a major or minor in geography.

GEOG 4807/5807 Advanced Field Methods in Geography (3 credits)—A study of methods of measuring, recording, and synthesizing field data in geography.

GEOG 4907/5907 Independent Studies (1-3 credits)—Prerequisite(s): Permission of department chair is required.

GEOG 4957/5957 Topics in Geoscience (1-6 credits)—Prerequisite(s): Depending on subject matter. Selected topics of current interest in geography. Offered upon sufficient demand for specific subject matter. May be repeated for different topics. Consultation with the instructor is recommended before enrollment.

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

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

GEOG 5000 Quantitative Techniques ............................................. (3 credits)
GEOG 5010 Location Theory ....................................................... (3 credits)
GEOG 5110 Seminar in Physical Geography ..................................... (3 credits)
GEOG 5130 Seminar in Urban Geography & Planning .......................... (3 credits)
GEOG 5140 Seminar in Regional Geography ...................................... (3 credits)
GEOG 5210 Geography of Settlement and Land Use ............................ (3 credits)
GEOG 5310 Evolution of Geographic Thought .................................... (3 credits)
GEOG 5901 Independent Studies ................................................... (1-3 credits)
GEOG 5908 Thesis in Geography .................................................. (1-3 credits)
GEOG 5989 Cooperative Education ................................................ (1-3 credits)
GEOG 5990 Readings and Research ................................................ (1-3 credits)
GEOG 5999 Cooperative Education ................................................ (1-3 credits)

Geology

GEOL 1040 Physical Geology (4 credits)—A study of the earth and earth processes including mountains, rivers, ocean basins, glaciers, volcanoes, earthquakes, and plate boundaries with an introduction to rocks and minerals. Three lecture, two lab credits per week.

GEOL 1050 Historical Geology (4 credits)—A survey of the earth’s history, physical and biological, as revealed by rock formations and the fossil record. Three lecture, two lab credits per week.

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

GEOL 2480 Geology Field Methods (4 credits)—Prerequisite(s): GEOL 1040, GEOL 1050, or permission of instructor. An introduction to the methods of measurement, sampling techniques, and data collection used by the field geologist. Plane table and airphoto techniques of mapping, section measurement, and description, and structure description and analysis will be treated. Three lecture, two lab credits per week.

Honors students will be expected to map an area, mutually agreed on by the instructor and the student, and submit the map and a report on the selected area by the end of the semester.

GEOL 2989 Cooperative Education (3 credits)

GEOL 2999 Cooperative Education (3 credits)

GEOL 3001 Mineralogy I (4 credits)—Prerequisite(s): GEOL 1040 and CHEM 1110 or permission of the instructor. Mineralogy is the study of minerals through their crystal structure and morphology, and their optical properties. Students will learn to identify the major rock forming and accessory minerals, their environments of formation, and their common associations.
GEOL 3120 Economic Geology (4 credits) — Prerequisite(s): GEOL 3001 and CHEM 1110. Economic Geology is a study of the origin, nature, distribution, and exploitation of industrial mineral deposits, the major metallic minerals, fossil and mineral fuels, alternate energy sources.

GEOL 3391 Invertebrate Paleontology (4 credits) — Principles of taxonomy, classification, paleoecology, evolution, and geologic records of the major invertebrate phyla are considered. Three credits lecture and two laboratory periods each week.

Honors students will be required to choose an invertebrate fossil group and to collect, identify, and curate that material as part of the Geology teaching collection.

GEOL 3395 Vertebrate Paleontology (4 credits) — Prerequisite(s): GEOL 1050, BIOL 1120, or permission of instructor. The goal of this course is to provide a general overview of vertebrate evolution through time and to discuss how it is (and has been) interpreted from the fossil record. In addition, new theories and recent discoveries will be addressed (specifically, their relevance to past and current thinking). Two lectures and two laboratory sessions weekly.

Honors students will be required to work a minimum of 20 hours at the Gray Fossil Site and submit a report on their work by the end of the semester.

GEOL 3400 Geologic Illustration (2 credits) — Development of skills in the preparation of illustrations for publication and oral presentations. Topics include ink work, layout, proportion, reproduction materials and methods, lettering, and preparation. Course content is also relevant to other fields. One lecture and two laboratory periods each week.

GEOL 3481 Environmental Geology (3 credits) — Prerequisite(s): GEOL 1040 or permission of instructor. This course considers specifics in man’s relationship to the physical environment. Natural environmental hazards, such as volcanoes, earthquakes, subsidence, soil flow, landslides, floods, and sedimentation, are examined. The limitations of natural resources and future projections are considered, along with the impact of man’s demands upon the environment. Oil spills, surface mining, waste disposal, water supplies, and other problems of a geologic nature that are pertinent to the environment are discussed from the standpoint of specific case histories.

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

GEOL 4120 Petrography (4 credits) — Prerequisite(s): GEOL 3001 or permission of instructor. Igneous, sedimentary, and metamorphic rocks are examined both in hand specimen and in thin section. The student learns to recognize component minerals and other important characteristics and to apply principles of rock classification and identification.

Honors students will collect and prepare a sequence of rocks, to be mutually agreed on by both the student and instructor, which can be added to the Geology teaching collection. The project will include collection and description of rock hand samples, preparation of thin-sections, and a written report of both.

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

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

GEOL 4540 Sedimentation-Stratigraphy (4 credits) — Prerequisite(s): GEOL 3001 or permission of instructor. The first part of the semester is devoted to the origin, classification, and interpretation of sediments and modern sedimentary environments. The second part is devoted to the recognition of these environments in the geologic record through stratigraphic analysis. The latter includes principles of correlation, stratigraphic paleontology, compilation of stratigraphic maps, and interpretation of the geologic column.

Honors students will be expected to choose a rock section in the region and measure and describe it in detail. The choice of section must be mutually agreed upon by the student and the instructor. The student will submit a detailed description and stratigraphic column of the section as a final report. The student may also choose to carry out a sedimentary analysis on an exposed rock section, a stream deposit, or soil horizon to be mutually agreed upon by the instructor and the student. A nalyses will include petrographic description of sediments and grain size analysis of representative sediment/ soil samples all to be presented in an end-of-semester report.

GEOL 4587/5587 Engineering Geology (4 credits) — Prerequisite(s): GEOL 1040, MAT 1920 or permission of instructor. Real-world applications of geology in the field of engineering. Topics include soil properties, floods and flood control, dams, stream management and reconstruction, erosion and erosion control, mass movement, municipal waste treatment, septic systems, radioactive waste disposal, tunnels, geologic applications of explosives, permafrost, strip mining and mine reclamation, earthquakes, coastal management, etc.

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

GEOL 4617/5617 Structural Geology (4 credits) — Prerequisite(s): GEOL 1040, MAT 1920 or permission of instructor. Focus is on the description and analysis of geological structures within the Earth’s crust, with an introduction to global tectonics. Includes the description of geological structures, the kinematics and dynamics of folding and faulting, stress, strain, deformation and rheology. Introduction to dislocation theory, principles of plate tectonics, micro-structural analysis, and selected orogenic systems of the world. Three lectures and two laboratory sessions weekly.

Honors students will be expected to map a structurally complex area, mutually agreed on by the instructor and the student, and submit the map and a report on the selected area by the end of the semester.

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

Honors students will be expected to conduct a field experiment or computer modeling experiment with the area of study to be approved by the instructor. The student will present a final written report and make an oral presentation to the class as part of the final grade.

GEOL 4889 Cooperative Education (3 credits) — Prerequisite: Permission of department chair is required. The Cooperative Education agreement seeks to build partnerships between ETSU, students, and area geoscience industry and service providers. This course will give partial credit toward a capstone thesis, on a project to be mutually agreed upon by Geology faculty and a geoscience industrial group, which will result in the student working for a year on a 6-credit hour project that produces a thesis. The student will enroll in GEOL 4889 for the fall semester of the project.

GEOL 4890 Cooperative Education (3 credits) — Prerequisite: Permission of department chair is required. The Cooperative Education agreement seeks to build partnerships between ETSU, students, and area geoscience industry and service providers. This course will give partial credit toward a
capstone thesis, on a project to be mutually agreed upon by Geology faculty and a geoscience industrial group, which will result in the student working for a year on a 6-credit-hour project that produces a thesis. The student will enroll in GEOL 4890 for the spring semester of the project.

**GEOL 4899 Senior Thesis (3 credits)**—Prerequisite: Permission of department chair is required. The Department of Physics, Astronomy, and Geology will require the completion of a senior Honors Thesis (GEOL 4899/4900) as a capstone course. A Geology faculty member, chosen by the student, will direct a year-long, 6-credit-hour, thesis project. Two additional committee members, one from Geology and one from outside the Geology Department, will serve on an advisory committee with the project director and also act as readers of the thesis. The student will enroll in GEOL 4899 for the fall semester of the project. The thesis will be publicly defended.

**GEOL 4900 Senior Thesis (3 credits)**—Prerequisite: Permission of department chair is required. The Department of Physics, Astronomy, and Geology will require the completion of a senior Honors Thesis (GEOL 4899/4900) as a capstone course. A Geology faculty member, chosen by the student, will direct a year-long, 6-credit-hour, thesis project. Two additional committee members, one from Geology and one from outside the Geology Department, will serve on an advisory committee with the project director and also act as readers of the thesis. The student will enroll in GEOL 4900 for the spring semester of the project. The thesis will be publicly defended.

**GEOL 4905 Independent Study (1-4 credits)**—Prerequisite(s): Permission of department chair is required. This course is designed for students who would like to study an area of geology not covered in the curriculum. Students are expected to work independently, but under the close supervision of an instructor. A paper presenting their findings is required.

## German

**GERM 1010-20 Beginning German (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 credits)**—A continuation of first year, with an introduction to German literature.

**GERM 3011 Survey of German Literature Before 1700 (3 credits)**—German literature from its origins to the 17th century.

**GERM 3021 Survey of German Literature Since 1700 (3 credits)**—German literature from the age of Goethe to the present.

**GERM 3111 German Civilization (3 credits)**—Geography, history, and culture of Austria, Germany, and Switzerland.

**GERM 3121-41 German Conversation and Composition (3 credits)**—Practice in conversation, with emphasis on idioms, syntax, and current expressions. Study of grammar through written compositions.

**GERM 4018 Honors Thesis (3-6 credits)**—Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

**GERM 4121 Twentieth Century German Literature (3 credits)**—Impressionism, Expressionism, Post-War Literature.

**GERM 4137/5137 The Age of Goethe (3 credits)**—Selected works of the principal authors of the Storm and Stress, Classical, and Romantic periods in German Literature.

**GERM 4147/5147 The German Short Narrative (3 credits)**—Selected short-prose works of representative authors of the late 19th and the 20th century.

**GERM 4157/5157 Austrian Literature (3 credits)**—Selected works of principal Austrian writers and their impact on German literature.

**GERM 4167/5167 Advanced German Grammar (3 credits)**—In-depth review of troublesome aspects of German grammar. Review of grammar in context, as well as practice in composition and translation.

**GERM 4901 Special Studies (1-3 credits)**—Designed to provide opportunities for study in areas not provided for in the regular course offerings for undergraduates. Students desiring to enroll must obtain permission from the instructor.

**GERM 4957/5957 Topics in German (3 credits)**—This course gives students an opportunity to study special problems and new developments in the field of German.

### Human Development and Learning

**HDAL 1000 College Adjustment (1 credit)**—Designed to assist the new student in adapting to college life. Emphasis is on understanding human development, improving decision-making skills, study skills, and clarifying values. The course will also assist in identifying campus resources, career materials, and university administrative requirements/procedures regarding the academic status system, transcripts, official records, etc. This course cannot be used to satisfy requirements for general education or a major/minor in human development and learning.

**HDAL 1010 Career Planning and Life Skills (3 credits)**—An introduction to the theory and practice of career planning and decision making with an emphasis on occupational choice, self-assessment, career decision-making, occupational information, and selection of a college major. Students will be expected to apply this knowledge to the development of a personal career plan.

**HDAL 2008 Honors Service Learning (1 credit)**—Prerequisite(s): Admission to the College of Education’s honors program. Honors service learning in social/cultural agencies and programs related to education.

**HDAL 2310 Developmental Life-Span Psychology (3 credits)**—A study of the human learning and development principles applicable to infancy, early childhood, adolescence, early adulthood, adulthood and the geriatric phase of life.

**HDAL 2320 Child Psychology (3 credits)**—A study of child learning and development with an emphasis on application of behavioral science to parenting and teaching.

**HDAL 2325 Child and Adolescent Development for Educators (3 credits)**—The intent of this course is to focus on human development from conception through adolescence with examples and applications primarily focusing on educational settings. It provides a multi-theoretical approach to the aspects of human development that are impacted by human interaction and nurturing, as well as those that are relatively unaffected by environmental input. Key concepts include, but are not limited to, gross and fine motor development, temperament, visual and auditory perception, family characteristics, genetic inheritance, attention, cognitive tempo, play, and language development as they impact academic learning.

**HDAL 2330 Adolescent Psychology (3 credits)**—A study of adolescent learning and development with emphasis on applications of behavioral science to parenting and teaching.

**HDAL 2340 Understanding Cultural Diversity (3 credits)**—This course is designed for the student to develop competencies that allow her/him to be more effective when relating and/or working with individuals of diverse groups in society. Students will have opportunities to develop awareness of their own cultural values and biases, to study prevalent beliefs and attitudes of different cultures, and to develop skills useful for appropriate interactions with particular groups.
HDAL 3310 Educational Psychology (3 credits)—Prerequisite(s): HDAL 2310, HDAL 2320, HDAL 2325, or HDAL 2330. A study of the systematic application of psychological and behavior principles to educational settings.

HDAL 4007/5007 Applications of Group Process (3 credits)—This course will provide students in various non-counseling disciplines with an experience of group process and practice, tailored to the professional needs of the various disciplines that make use of the course. This course will focus on group leadership skills, cohesion and development, group performance, and handling group conflict.

HDAL 4010 Managing Child Behavior (3 credits)—Prerequisite(s): PSYC 1310 and HDAL 2310; or HDAL 2320. A study of the theory and practice of child behavior management in family, school, and community settings. Procedures for individuals or groups and for well-adjusted or disruptive children will be presented.

HDAL 4011 Developmental Psychology II (3 credits)—Prerequisite(s): PSYC 1310 and HDAL 2310; or HDAL 2320. A study of human biological and behavioral development in the context of hereditary, environmental, and evolutionary influences.

HDAL 4018 Honors Thesis (3-6 credits)—Open to those in university honor programs only. A capstone experience serving as the culmination of an honors curriculum.

HDAL 4260 Learning in Human Development (3 credits)—In this course students will study how major theories of learning are related to developmental changes throughout the lifespan. The merits of theories will be critically examined. Significant attention will be given to the implications and applications of the valid principles within those learning theories for various settings, including classroom, family, business, and social settings.

HDAL 4666 Cultural Influences in Development (3 credits)—Prerequisite(s): PSYC 1310 and HDAL 2310; or HDAL 2320. An intensive study of familial, societal, economic, and religious influences on psychological development. The emergence of the individual person across a broad spectrum of national, ethnic, linguistic, and religious subcultures is examined.

HDAL 4817/5817 Introduction to Psychological Testing (3 credits)—Prerequisite(s): A course in statistics. A history and overview of the standardized evaluation methods commonly used in the assessment of individuals and groups. Topics covered are validity, reliability, and statistical concepts for the evaluation and interpretation of test data. The student is given an overview of ability tests, interest tests, and personality tests.

HDAL 4900 Independent Study (1-3 credits)

HDAL 4950 Research in Learning and Development (3 credits)—Prerequisite(s): PSYC 1310 and MATH 1530; or PSYC 2010. The study and application of research methods appropriate to the behavioral sciences for consumers of developmental research. Observation, research design, and data analysis appropriate to the applied setting is emphasized.

HDAL 4957/5957 Special Topics in Human Development and Learning (1-6 credits)

Graduate Course Listing
For Descriptions and Prerequisite(s) see the Graduate Catalog

HDAL 5570 Supervised Counseling Practicum (3 credits)
HDAL 5800 Seminar Practicum School Psychology (3 credits)
HDAL 5820 Psychological Assessment of Personality (3 credits)
HDAL 5830 Individual Mental Testing (also Psychology 5830) (4 credits)
HDAL 5861 Applied Behavior Analysis (3 credits)
HDAL 5880 Internship (1-6 credits)
HDAL 5900 Independent Study (1-3 credits)
HDAL 5980 Thesis (3 credits)
HDAL 5990 Readings and Research (1-3 credits)

Early Childhood Education

ECED 5210 Advanced Child Development (3 credits)
ECED 5330 History and Philosophy of Early Childhood Education (3 credits)
ECED 5331 Infancy (3 credits)
ECED 5332 Designing An Early Childhood Environment (3 credits)
ECED 5333 Designing an Early Childhood Environment (3 credits)
ECED 5334 Learning in Infants and Young Children: Social Development of Young Children (3 credits)
ECED 5345 Research in Early Childhood Education (3 credits)
ECED 5352 Theories of Play (3 credits)
ECED 5356 Administration and Management of Schools (3 credits)
ECED 5360 Language Development in Early Childhood (3 credits)
ECED 5440 Treating Abuse in the Family (3 credits)

History

HIST 1110 World History and Civilization to 1500 (3 credits)—A general survey of the cultural, religious, political, and social development of major world civilizations from their beginnings to c. 1500.

HIST 1120 World History and Civilizations Since 1500 (3 credits)—A general survey of the cultural, religious, political, and social development of major world civilizations from 1500 to the present.

HIST 2010 The United States to 1877 (3 credits)—A survey of the settlement and development of the colonies, the revolutionary period, the making of the Constitution, the diplomatic, economic, and political problems of the new government, the nature of economic sectionalism, Jacksonian democracy, territorial expansion, the Civil War, and Reconstruction.

HIST 2018 Honors United States to 1877 (3 credits)—Prerequisite(s): Permission of the department. Honors course for exceptional students who wish to study in a small seminar-type class.

HIST 2020 The United States Since 1877 (3 credits)—Growth of the United States as an industrial and world power since Reconstruction.

HIST 2028 Honors United States Since 1877 (3 credits)—Prerequisite(s): Permission of the department. Honors course for exceptional students who wish to study in a small seminar-type class.

HIST 2030 History of Tennessee (3 credits)—An intensive study of selected periods and topics in Tennessee history.

HIST 3020 Minority and Ethnic History (3 credits)—A study of selected minority and ethnic groups in the United States with attention to geographical origin, migration patterns, and their impact on and adaptation to American culture.

HIST 3310 Ancient History (3 credits)—A survey of the origins of ancient urban civilization, including the river valley civilizations of Egypt and Mesopotamia, Israel, and Greece, with emphasis on the development of cultural, religious, political, and social institutions.

HIST 3320 Medieval History (3 credits)—Introduction to the study of medieval history from the decline of ancient civilization to the beginning of the Renaissance emphasis on institutional and cultural development.

HIST 3330 Main Currents of Early Modern Europe (3 credits)—A study of major forces and events that shaped Europe from the mid-sixteenth century to the French Revolution, the Reformation, and wars of religion, absolutism and constitutionalism, the Scientific Revolution and the Enlightenment, and aspects of popular culture (the witchcraft craze, marriage and family life, religion).
HIST 3340 Modern Europe (3 credits)—A study of the 19th century origins of modern Europe, the development of the European industrial economy and society, diplomatic developments, and the nature of the balance of power system, Europe and the two World Wars, and the development of post-World War II Europe.

HIST 3410 Introduction to Historical Methods (3 credits)—An introductory survey of historical methods and thinking, including consideration of the philosophy of history, historiography, historical research, and the writing of history.

HIST 3710 A Survey of the Middle East (3 credits)—A survey of the land, people, and problems of the Middle East from ancient times to the modern period.

HIST 3720 History of Africa (3 credits)—An introduction to the history of the entire African continent from earliest times to the present Primary emphasis is placed on the achievements of Africans rather than those of foreigners in Africa.

HIST 3730 Conquest to Independence in Latin America (3 credits)—A study of the colonial period and independence movements with emphasis upon colonial and early national institutions that are of significance for understanding the peculiar mix of reaction and revolution visible in contemporary Latin America.

HIST 3740 History of Asia (3 credits)—A survey of Asian history from earliest times which stresses the formation and development of the long-lived political cultures of China and Japan, including their strategies for protecting their national sovereignty.

HIST 3900 African-American History to 1877 (3 credits)—African-American History to 1877 is a survey course which explores the political, economic, social, and cultural experiences of African-Americans, from their African roots through the Reconstruction period in America. The course will emphasize the struggle for equality along with the collective and individual contributions of African-Americans to United States and world culture.

HIST 3901 African-American History Since 1877 (3 credits)—African American History Since 1877 is a survey course which explores the political, economic, social, and cultural experiences of African Americans, from United States Reconstruction to the present. The course emphasizes the Civil Rights movement, along with the struggles and achievements of African Americans.

HIST 3910 History of Christianity (3 credits)—A survey of the history of the Christian movement, from the early Church to the diverse expressions of Christianity in the modern world.

HIST 3920 History of Islam (3 credits)—A survey of pre-Islamic Arabia, the Prophet and his career, the Qur'an, doctrine and ritual, law, Sufism, sects in Islam, the Caliphate, and Islam in the modern world.

HIST 3940 War in the Modern World (3 credits)—A study of war since the 18th century, including how armies reflect the values of a society, changes in warfare in the modern era, the American way of war strategy, tactics, generalship, weapons, and the impact of war on society.

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

HIST 4017/5017 Beginnings of America (3 credits)—A history of the establishment of European settlements in America and the development of colonies in the 16th and 17th centuries.

HIST 4018 Honors Thesis (3-6 credits)—Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

HIST 4037/5037 The American Revolution (3 credits)—A study of the origins and development of revolutionary sentiment in 18th century America.

HIST 4047/5047 The Early Republic (3 credits)—A study of the Federalist Period, the Jeffersonian Revolution and the War of 1812.

HIST 4057/5057 The Age of Jackson (3 credits)—A study of the era of good feelings, the age of Jackson, sectionalism, and territorial expansion to the eve of the Civil War.

HIST 4067/5067 The Civil War (3 credits)—An advanced course in the history of the Civil War, with emphasis upon secession, economic and military mobilization, battles and campaigns and the cultural, diplomatic, and political developments in the period from 1861 to 1865.

HIST 4097/5097 The Emergence of United States, 1865-1933 (3 credits)—A study of the rise of big business, big labor, big government, and the agrarians in the late 19th century, the Progressive Movement, World War I, League of Nations, and the Depression.

HIST 4107/5107 Recent United States 1933-Present (3 credits)—A study of the New Deal, World War II, the significant changes in American society since the war, and the exercise of great power status in international affairs in the third quarter of the 20th century.

HIST 4127/5127 Social and Intellectual History of United States to 1877 (3 credits)—A study of selected and representative social, cultural, and intellectual themes in American history from the colonial period to the end of Reconstruction.

HIST 4137/5137 Social and Intellectual History of United States Since 1877 (3 credits)—A study of selected and representative social, cultural, and intellectual themes in American history from the end of Reconstruction to the present.

HIST 4147/5147 The Old South, 1607-1860 (3 credits)—An advanced course in the history of the South from colonial times to the Civil War, with emphasis upon economic, social, and political developments, including the slavery controversy.

HIST 4157/5157 The South Since 1865 (3 credits)—A study of the recent South with special attention to its politics, economy, society, culture, and relationship to national history.

HIST 4167/5167 History of Southern Appalachians (3 credits)—A study of the political, economic, social, and cultural developments in southern Appalachia from settlement to the 20th century.

HIST 4177/5177 The West in the Life of the Nation (3 credits)—A study of westward expansion and the impact of the frontier on American institutions from the Old Southwest and Northwestern frontiers to the Pacific Coast.

HIST 4207/5207 Ancient Religions (3 credits)—A study of the origins, development, and function of religion in the ancient world of the Middle East, the Indian subcontinent, Greece and Rome. The course will cover the religions of ancient Egypt, Mesopotamia, Palestine, Greece and Rome, as well as Gnosticism, Jainism, and Zoroastrianism.

HIST 4217/5217 History of Ancient Greece (3 credits)—A study of ancient Greece from its origins in the Bronze Age through the Hellenistic Age, with special emphasis on the political, philosophical, and intellectual ideas which form the basis of Western civilization.

HIST 4227/5227 History of Rome (3 credits)—A survey of ancient Rome from its origins to the 4th century A.D., including the Regal period, the struggle of the Orders, the growth of the republic, Roman institutions, the Roman conquest of Italy, the Fall of the Republic, and the growth of autocracy, adjustments in the Empire, the early Christian church, and the culture of Rome and of its subject peoples.

HIST 4230 Renaissance and Reformation Europe (3 credits)—A survey of Europe during its transition from medieval to early modern times, with emphasis on the roots of the Renaissance culture of the 15th and the religious upheaval of the 16th centuries and their impact on institutions and behavior, including the role of women, family life, popular culture, witchcraft/ the occult, and the rise of modern science.

HIST 4237/5237 Women in the Ancient World (3 credits)—A study of the history and circumstances of women in antiquity, including the cultures of Egypt, Mesopotamia, Greece, and Rome.
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HIST 4247/5247 History of Women in U. S., Settlement to 1945 (3 credits)—An investigation of the social, economic, and political roles of women in the life of the nation, from European contact with Native Americans to the end of World War II.

HIST 4327/5327 Expansion of Europe Overseas, Since 1492 (3 credits)—Prerequisite(s): HIST 1120. A study of European expansion and its impact on the modern world.

HIST 4377/5377 Intellectual History of Europe Since the French Revolution (3 credits)—A study of the history of European thought from the French Revolution to the present day.

HIST 4387/5387 History of the Holocaust (3 credits)—A study of the background and origins of the Holocaust, including the legacy of anti-Semitism in Christian Europe and the emergence of racial anti-Semitism, the impact of World War I, Hitler's ideology, the racial ideas of the Nazi state. Emphasis will also be put on the decision for and implementation of the Final Solution, with emphasis on the perpetrators, victims, and bystanders, as well as how the initially limited Nazi killings expanded into the Holocaust as we know it. Finally, the meaning and possible uniqueness of the Holocaust will be explored.

HIST 4417/5417 Methods of Teaching History (3 credits)—Content and methods for teaching history and social studies with emphasis in secondary education. This course earns education credit only and does not meet requirements for a major or minor in history or the MAT degree.

HIST 4507/5507 England to 1714 (3 credits)—A survey of English history from the Roman period to the 18th century. The course will examine the main themes of England's heritage—Christianity, medieval monarchy, common law, the Tudors—with considerable attention given to how men and women lived, worked, prayed, studied, and enjoyed life.

HIST 4517/5517 England, 1714 - Present (3 credits)—A study of British history from 1688 to the present with primary attention directed to the political, economic, and social changes that led the nation from an agrarian and aristocratic kingdom to an industrial and democratic state in the 20th century.

HIST 4607/5607 History of Russia to 1917 (3 credits)—A study of politics, society, and culture in Russia from Kievan Rus to the end of Tsarism, with emphasis on the latter period.

HIST 4617/5617 History of Russia Since 1917 (3 credits)—A study of Russia, with emphasis on politics, ideology, culture, and economic development from the collapse of tsarism and the Russian Revolution through the Soviet period and the post-Soviet period, including its successor states.

HIST 4627/5627 Modern Germany (3 credits)—A study of the causes and consequences of German unification, the Bismarckian period, the Wilhelminian Age, Weimar and World War I, the Weimar Republic, Hitler and the Nazi Era, and World War II and its aftermath. Emphasis will be placed on political, economic, social, and diplomatic developments.

HIST 4707/5707 East Asia Since 1900 (3 credits)—The transformation of China and Japan from regional to international economic powers.

HIST 4717/5717 Modern Middle East, 1800 - Present (3 credits)—A study of the Middle East from Napoleon through K homeini, with emphasis on modernization trends and Islamic responses.

HIST 4727/5727 Modern Africa (3 credits)—An advanced, in-depth examination of African social, economic, political, cultural, and intellectual history since about 1880, with special emphasis on the reestablishment of African independence.

HIST 4730 Latin America: Revolution and Nationalism (3 credits)—A study of the national development of several Latin American countries (Mexico, Argentina, Chile, Cuba, and Brazil) to show some of the dramatic differences, as well as some of the common features of Latin American social, economic, and political structures today.

HIST 4827/5827 America in the 1960s (3 credits)—The domestic history of the United States during the 1960s, with emphasis on the era's social and cultural forces—Civil Rights—Martin Luther King, Jr, Malcolm X, the Black Power Movement, Social Policy—John F. Kennedy's "New Frontier", Lyndon B. Johnson's "Great Society." The impact of Vietnam and 1968 on the home front, antiwar protests, the counterculture, student rights, modern feminism, environmentalism, and the popular music and literature of the decade.

HIST 4837/5837 American Women Since World War II (3 credits)—An examination of the social, political, economic, commercial, legal, sexual, and racial issues faced by American women since the end of World War II. Topics will include the domestic containment of the 1950s, Betty Friedan's 1963 groundbreaking study, The Feminine Mystique, birth control, Roe V Wade, the origins of protest movements, women's liberation, defeat of the Equal Rights Amendment, and the rise of radical and conservative feminism.

HIST 4847/5847 20th Century American Sports (3 credits)—An interdisciplinary study of sport in its historical context: the formation and evolution of various sports, including their economic, political, legal, gender, racial, and sexual aspects, as well as their treatment in popular literature and films.

HIST 4900 Independent Study (1-3 credits)—The Independent Study option is designed for students who would like to pursue study in areas of history not covered in the department's curriculum. Students are expected to work independently, but under the supervision of a faculty member. Students desiring to use this option must prepare for appropriate signatures, a written application with the faculty which describes course objectives, research methods (including reading list), requirements for presentation of findings of such independent study, anticipated date for completion of all requirements, and method of faculty's evaluation of the independent study project.

HIST 4910 Survey of the Modern World (3 credits)—A recapitulation and synthesis of the main themes of modern history designed to enable majors and minors to acquire a reasonable overview of the past.

HIST 4927/5927 World War II in Europe (3 credits)—A study of the background, origins, progress, and consequences of World War II in Europe. Emphasis will be placed not only on political, diplomatic, and military aspects of the war, but also on its broader social, economic, technological, and ideological ramifications.

HIST 4937/5937 World War II in the Pacific (3 credits)—A study of the origins, course and consequences of World War II in the Pacific. Emphasis will be placed not only on the political, diplomatic, and military aspects of the war but also on the racial, technological, and ideological ramifications. The course will begin with the outbreak of the Sino-Japanese War in 1937 and end with the beginning of the Cold War and the rebuilding of Japan.

HIST 4957/5957 Topics in History (1-3 credits)—A series of special interest subjects will be offered under this title on the basis of student interest and faculty capability. The course may be repeated.

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

HIST 5010 Studies in United States History ......................... (3 credits)
HIST 5020 Studies in European History ................................ (3 credits)
HIST 5030 Studies in World History .................................... (3 credits)
HIST 5000 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 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. 

**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(s) or Corequisite(s): 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 lab per week.

**HSCI 2020 Anatomy and Physiology II (3 credits)** — Prerequisite(s): HSCI 2010. A 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(s) or Corequisite(s): HSCI 2020. A continuation of HSCI 2011. Laboratory will cover those systems listed under HSCI 2020. One two-hour lab per week.

**HSCI 2230 Introduction to Microbiology (4 credits)** — Corequisite(s): HSCI 2231. A survey of the principles and techniques of microbiology, parasitology, virology, immunology, and laboratory procedures, with special application to disease prevention and health maintenance. HSCI 2230/31 receives common grade.

**HSCI 2231 Introduction to Microbiology Laboratory (0 credit)** — Corequisite(s): HSCI 2230. Laboratory designed to coordinate with Introduction to Microbiology HSCI 2230. Two one-hour laboratories per week. HSCI 2230/31 receives common grade.

**HSCI 2500 HIV/AIDS: Biology and Beyond (3 credits)** — A study of the social, political, and biological dimensions of HIV/AIDS. The evolution of the HIV/AIDS pandemic and its impact on society and the most current scientific knowledge regarding the biology of HIV, antiviral drugs, and vaccines will be discussed.

**HSCI 3000 Human Anatomy (4 credits)** — Prerequisite(s): General biology recommended. A systematic study of the human body with an emphasis on functional gross anatomy is presented to facilitate an understanding of body structure and function. Laboratory provides a learning experience through the use of anatomical specimens, models, and charts. Three hours lecture and lab per week.

**HSCI 3020 Human Physiology (4 credits)** — Recommended Prerequisite(s): HSCI 3000. A study of the homeostatic mechanisms in man as they pertain to normal physiology and mechanisms of disease. The teaching laboratory provides the students an opportunity to learn by measuring many of the vital physiological processes. Three hours lecture and lab per week.

**HSCI 3030/31 Introductory Biochemistry (4 credits)** — Prerequisite: CHEM 1110/11 and CHEM 1120/21. An introduction to general biochemistry of eukaryotic and prokaryotic cells. Includes study of the cell chemistry, mechanisms of energy production, enzymes, basics of macromolecular structures and transcription and translation of genetic information. Laboratory includes techniques involved in studying the biochemistry of cells. Three hours lecture and three hours laboratory per week.

**HSCI 3320 General Microbiology (4 credits)** — Recommended Prerequisite(s): One year college biological sciences and one year inorganic chemistry; Corequisite(s): HSCI 3321. A comprehensive basic course emphasizing biological properties and natural activities. For students desiring or needing a broad background and understanding or with special interest in microbiology.

**HSCI 3321 General Microbiology Laboratory (0 credit)** — Prerequisites: advanced course; Corequisite(s): HSCI 3320. (Laboratory to coordinate with HSCI 3320.) Emphasizes the distribution, isolation, cultivation, morphology, and identification of microorganisms, as well as physical and nutritional means of control. Fundamental principles and techniques. Two 2-hour labs per week.

**HSCI 3510 Pathogenic Microbiology (4 credits)** — Prerequisite(s): HSCI 3320. A lecture and lab course presenting the key concepts and mechanisms of the infectious disease process and its prevention and control with an emphasis on bacterial pathogens and how they cause disease. In addition, the laboratory component is designed to introduce the student to the basic techniques for the isolation and identification of pathogenic bacteria.

**HSCI 3540 Immunology (3 credits)** — A lecture presenting current concepts of the basic mechanisms of immunity and selected laboratory techniques to study the development of the immune response.

**HSCI 4018 Honors Thesis (3 - 6 credits)** — Open to those in university honor programs only. A capstone experience serving as the culmination of an honors curriculum.

**HSCI 4067/5067 Neurology (4 credits)** — Prerequisite(s): H uman or vertebrate anatomy and physiology. A basic study of human neuroanatomy and neurophysiology. This course explores the motor and sensory pathways, as well as the integration systems of the central nervous system. Laboratory work utilizes preserved human specimens, models, slides and charts. Two hours lecture and (2) two-hour labs per week.

**HSCI 4480 Clinical Parasitology (4 credits)** — Prerequisite(s): One year of biological science or equivalent. Lecture and discussion of parasites of public health importance. Life cycles, pathology, and diagnostic stages are emphasized. Standard procedures of specimen collection, staining, concentration, and parasite identification are studied in the laboratory. Two hours lecture and (2) two-hour labs per week.

**HSCI 4590 Independent Studies (1-4 credits)** — Prerequisite(s): Upper-division status and permission of instructor and department chair. Independent research under the supervision of staff members. A plan of the research must be approved in advance of registration. May be retaken to a total of four (4) credits.

**HSCI 4607/5607 Bacterial Physiology (4 credits)** — Prerequisite(s): HSCI 3320 and Organic Chemistry required. Completion of a biochemistry recommended. A consideration of the biochemical nature of the growth of microorganisms. Includes studies of bacterial cytology, enzymes, nutritional requirements, metabolic pathways, and genetic regulation. Laboratory includes studies of selected aspects of metabolism during bacterial growth and the use of bacterial vectors for cloning DNA. Two hours lecture and three hours laboratory per week.

**HSCI 4730 Molecular and Microbial Genetics (3 credits)** — Prerequisite(s): HSCI 3320. An introduction to microbial genetics, focusing on the genetics and molecular biology of bacteria and bacteriophages. The course will include basic techniques of microbial genetics and gene manipulation with emphasis on the application of molecular genetics in basic and applied research.

**HSCI 4747/5747 Mycology (4 credits)** — Prerequisite(s): HSCI 3320 and Organic Chemistry. A survey of the fungi with emphasis on form, structure, genetics, growth and nutrition, classification, ecology, and economic importance. The fundamentals of general mycology and the procedures used for the isolation and identification of fungi including yeasts, mold, and actinomycetes are investigated in the laboratory. Two hours lecture and (2) two-hour labs per week.

**HSCI 4770 Virology (4 credits)** — Prerequisite(s): HSCI 3320 or equivalent. An introduction to the pathogenesis and molecular biology of viruses including methods of isolation, cultivation, and characterization. Two hours lecture and (2) two-hour labs per week.

**HSCI 4957/5957 Special Topics in Health Sciences (2-6 credits)** — Prerequisite(s): Determined by subject matter. Selected topics in health sciences offered upon sufficient demand for specific subject matter. May be repeated for different topics. Consultation with the instructor is recommended before enrollment.

**HSCI 4989-99 Cooperative Education (1-3 credits)**
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Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

HSCI 5100 Pathogenic Microbiology .............................................. (2 credits)
HSCI 5101 Pathogenic Microbiology Laboratory ......................... (2 credits)
HSCI 5110 Immunology ............................................................. (2 credits)
HSCI 5111 Immunology Laboratory ............................................. (2 credits)
HSCI 5150 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 2310 Arts and Ideas I (3 credits)—An examination of the arts and ideas of ancient and medieval cultures.
HUMT 2320 Arts and Ideas II (3 credits)—An examination of the arts and ideas of modern cultures. HUMT 2310 is not a prerequisite for this course.
HUMT 4930 Independent Studies in Humanities (3 credits)
HUMT 4950 Senior Seminar (3 credits)

Interdisciplinary Public Health

IDPH 2000 Introduction to Rural Health (1 credit)—This course provides an introduction to the rural primary and community care. A concentration experience at the rural site familiarizes students with the community and provides a foundation for later coursework and clinical experiences.
IDPH 2005 Communication for Health Professionals (3 credits)—This course is designed to introduce health professions students to the characteristics of effective communication and to develop basic competencies in communication with clients and colleagues in multi-disciplinary settings.
IDPH 2010 Rural Health and Community Leadership I (3 credits)—Students learn about caring for communities by conducting assessments using a variety of data sources, developing program plans, participating in a mock epidemic, visiting community agencies and institutions, and identifying local, state, and national trends that impact the community's health.
IDPH 3010 Rural Health and Community Leadership II (3 credits)—Students will collaborate in interdisciplinary student teams and with faculty and community members to provide selected health care interventions to adult populations.
IDPH 3020 Rural Health and Community Leadership III (3 credits)—Students will collaborate with multi-disciplinary students, faculty and community members to provide care to child and adolescent aggregates or families.
IDPH 4000 Community Health Project (3 credits)—In collaboration with community agencies and organizations, students will identify a community health need and then plan, implement and evaluate a community intervention.

International Studies

INTL 2000 Introduction to International Studies (2 credits)—An academic introduction to systematic study of the world as an economic, physical, political, and social unit. Students will consider a variety of approaches to such a study and will plan a course of study, which will lead to a senior seminar paper.
INTL 4000 International Studies Senior Seminar (1 credit)—Students and their project advisors will meet one hour a week. Students will consider methodological questions in writing papers in International Studies. Successful completion of this course requires the formal presentation of a senior seminar paper.

Journalism

JOUR 2050 History and Issues of Journalism (3 credits)—Examination of the evolution of ethical and historical issues that have shaped the field of journalism.
JOUR 2120 Writing for Print Media I (3 credits)—Prerequisite(s): Completion of ENGL 1010, ENGL 1020, and ability to type. Instruction and practice in fundamentals of journalistic writing, with main emphasis on format and style of news stories.
JOUR 2130 Writing for Print Media II (3 credits)—Prerequisite(s): Completion of JOUR 2120. Instruction and extensive laboratory practice in newspaper reporting. Focus is on gathering information, interviewing, and writing news and feature stories. Campus beats are covered, and most stories are considered for publication in the university's student newspaper. Because of lengthy lab sessions, students may need to consult with the instructor to work out schedules before enrolling.
JOUR 3120 Opinion Writing (3 credits)—Prerequisite(s): A grade of “C” or better in JOUR 2130. Besides editorials and interpretive writing about public affairs and current events, the course explores types of opinion writing such as news analysis, personal columns and critical reviews.
JOUR 3130 In-Depth Reporting (3 credits)—Prerequisite(s): A grade of “C” or better in JOUR 2130. State-of-the-art, hands-on course that addresses how to produce in-depth and investigative stories from story conception to library research, to interviewing local, state, and national experts, and finally putting the story or series of stories in a cogent package. Use of computer-based reporting operations emphasized.
JOUR 3150 Copy Editing (3 credits)—Prerequisite(s): A grade of “C” or better in JOUR 2130, or a grade of “C” or better in PUBR 2770. Instruction and practice in editing copy for print media and in headline writing.
JOUR 3160 Newspaper Design (3 credits)—Prerequisite(s): JOUR 3150 or permission of instructor. Lecture-laboratory instruction in preparation of camera-ready pages with computers to achieve pagination. Principles and methods of organizing and integrating information for the reader.
JOUR 3301 Photojournalism (3 credits)—Basic visual and technical aspects of photojournalism along with exercises in general news events, sports, features, and other newspaper and magazine subjects includes digital camera and photo shop techniques.
JOUR 3350 Advanced Photojournalism (3 credits)—Prerequisite(s): JOUR 3301 or permission of instructor. Advanced study in photojournalism concentrating on the newspaper and magazine story, advanced digital camera, and photo shop techniques.
JOUR 3430 Magazine Article Writing (3 credits)—Prerequisite(s): JOUR 2120 or permission of instructor. Writing nonfiction articles for consumer magazines, as well as business, trade, and professional publications.

JOUR 4080 Journalism Internship (3 credits)—Prerequisite(s): Permission of instructor. Supervised professional experience in journalism.

JOUR 4107/5107 Reporting Public Affairs (3 credits)—Prerequisite(s): A grade of “C” or better in JOUR 2130. Instruction and practice in coverage of local, county, and state governments, the court system, and law-enforcement agencies. May include field trips for which students must defray personal expense.

JOUR 4420 Magazine Editing and Production (3 credits)—Prerequisite(s): JOUR 3150 or permission of instructor. Lecture-laboratory tracing the magazine from original manuscripts to completed production. Lab makes use of computers to produce camera-ready magazine with illustrations.

JOUR 4900 Independent Studies in Journalism (1-3 credits)

JOUR 4957/5957 Topics in Journalism (1-6 credits)

Graduate Course Listing
For Descriptions and Prerequisite(s) see the Graduate Catalog

JOUR 5107 Reporting Public Affairs........................................... (3 credits)
JOUR 5900 Independent Study in Journalism................................ (1-3 credits)
JOUR 5957 Topics in Journalism............................................. (3 credits)

Foreign Languages

LANG

Also see FREN, GERM, JAPN, LATN, SPAN

METHODS

LANG 4417/5417 Teaching of Modern Languages (3 credits)—For seniors preparing to teach French, German, and Spanish. Topics include methodology and current trends in second language education and their application.

LATN 2010-20 Second-Year Latin (3 credits)—A continuation of first year, with reading from Latin prose and poetry and some prose composition.

Mathematics

MATH

(See Developmental Studies for below college-level courses)

Special Requirement Students in mathematics courses may be required to possess a designated hand-held calculator with functions appropriate to the course.

MATH 1410 Number Concepts and Algebraic Structure (3 credits)—Prerequisite(s): Two years of high school algebra and one year of high school geometry or the equivalent. This course will (1) investigate the role of numbers as a logical and predictive system for expressing and relating quantities and (2) explore a variety of functional relationships which arise from diverse problem situations.

MATH 1420 Logic, Problem Solving and Geometry (3 credits)—Prerequisite(s): MATH 1410 or permission of instructor. Logic and problem solving will be used to discover geometric concepts. Examples from theorems of great mathematicians of the past will be studied. Students will be expected to understand and construct logical arguments. Use of technology to explore geometric relationships will be an integral part of the course.

MATH 1530 Probability and Statistics - Noncalcus (3 credits)—Prerequisite(s): Two years of high school algebra. Descriptive statistics and its relevance, including probability, experimentation, measurement, sampling and surveys, informal statistical inference, and hypothesis testing are included.

MATH 1710 Precalculus I (Algebra) (3 credits)—Prerequisite(s): Two years of high school algebra. The real number system, linear and quadratic equations, Cartesian coordinates, systems of equations, and applications.

MATH 1720 Precalculus II (Trigonometry) (3 credits)—Prerequisite(s): MATH 1710 or the equivalent. 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 1840 Analytic Geometry and Differential Calculus (3 credits)—Prerequisite(s): MATH 1720 or two years of high school algebra and high school trigonometry. A course in differential calculus with technical applications. Analytic geometry, quadratic equations, and additional topics in trigonometry as foundation to the calculus, limits, the derivative, and applications.

MATH 1850 Integral Calculus for Technology (3 credits)—Prerequisite(s): MATH 1840. A course in integral calculus with technical applications. Sequences and series, the integral, exponential and logarithmic functions, and differentiation and integration of transcendental functions.

MATH 1910 Calculus I (4 credits)—Prerequisite(s): Two years of high school algebra, one year of plane geometry and trigonometry, or MATH 1720. Functions, limits of functions, derivatives and applications, and introduction to the integral.

MATH 1920 Calculus II (4 credits)—Prerequisite(s): MATH 1910. Applications of the integral, inverse trigonometric functions, exponential and logarithmic functions, techniques of integration, indeterminate forms and improper integrals, sequence, and series.

MATH 2010 Linear Algebra (3 credits)—Prerequisite(s): MATH 1840, or MATH 1910. Systems of linear equations, matrix algebra, inner products, vector spaces, linear transformations, eigenvalues, and three-space vector geometry.

MATH 2050 Foundations of Probability and Statistics - Calculus Based (3 credits)—Prerequisite(s): MATH 1910. A calculus-based introduction to probability and statistical inference. Basic probability concepts, mathematical expectation, discrete and continuous probability distributions, sampling distributions, one and two-sample estimation, and hypothesis testing techniques will be developed and used; linear regression and correlation.

MATH 2090 Mathematical Computing (2 credits)—Designed to introduce mathematics majors to the use of software tools and programming languages in the mathematics discipline. Spring

MATH 2110 Calculus III (4 credits)—Prerequisite(s): MATH 1920. Conics, parametric equations and polar coordinates, vectors and vector-valued functions, multivariate calculus.

MATH 2120 Differential Equations (3 credits)—Prerequisite(s): MATH 1920 and MATH 2010. First order differential equations and applications. Second and higher order linear differential equations and applications, Laplace transforms, systems of differential equations. Spring

MATH 2710 Discrete Structures (3 credits)—Prerequisite(s): MATH 1840 or MATH 1910. Set theory, mathematical induction and recursion, relations and digraphs, functions, trees and languages, semigroups, finite-state machines, and languages.

MATH 2800 Mathematical Reasoning (3 credits)—Prerequisite(s): MATH 1920 and MATH 2010. Introduction to mathematical methods of proof using primarily the subjects of logic, set theory, number theory, and topology.

MATH 2989 Cooperative Education (1-3 credits)—Prerequisite(s): MATH 2110 and MATH 2010. Designed for students who wish to pursue a temporary apprenticeship or experiential activity in a cooperative endeavor with an approved agency.

MATH 3040 History of Mathematics (3 credits)—Prerequisite(s): MATH 2110, MATH 2800, and MATH 2010. A study of mathematics and
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those who contributed to its development. Recommended for teachers and
desiring to expand their view of mathematics.

**MATH 3050 Statistical Modeling (3 credits)**—Prerequisite(s): MATH 2050 and MATH 2010. An introduction to linear multiple regression and one-way ANOVA using matrices. Other models include logistic regression, random walks, and autoregressive models. Spring

**MATH 3120 Elementary Number Theory (3 credits)**—Prerequisite(s): MATH 2800 and junior or senior status. Introduction to number theory, treating divisibility, congruencies, linear Diophantine equations, and quadratic residues. Some history of the development of the discipline will also be included.

**MATH 3150 Mathematical Modeling (3 credits)**—Prerequisite(s): MATH 2120. This course is an introduction to birth and death processes, equilibria, optimal control, and probabilistic models. Emphasis will be given to criteria for accepting, rejecting, and modifying models. Fall

**MATH 3340 Applied Combinatorics and Problem Solving (3 credits)**—Prerequisite(s): MATH 2800. Topics include basic counting techniques, generating functions, recurrence relations, and applications. Fall

**MATH 4010 Undergraduate Research (3 credits)**—Prerequisite(s): MATH 2800 and approval of faculty members teaching course. A capstone experience serving as the culmination of the mathematics curriculum. Students will work on research problems under the direction of mathematics faculty members. Honors students should take MATH 4018 instead.

**MATH 4018 Honors Thesis (3-6 credits)**—Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

**MATH 4027/5027 Introduction to Applied Mathematics (3 credits)**—Prerequisite(s): MATH 2010, MATH 2110, and MATH 2120. This course is an introduction to partial differential equations and their relationship to Fourier series, vector calculus, and special functions.

**MATH 4047/5047 Mathematical Statistics I (3 credits)**—Prerequisite(s): MATH 2050, MATH 2010 and MATH 2110. An introduction to the theory of probability and mathematical statistics. Topics will include discrete and continuous probability distributions and their applications, mathematical expectation and moment generating functions, functions of random variables and transformations, sampling distributions, the central limit theorem, Chi-square, T and F distributions. Fall

**MATH 4057/5057 Mathematical Statistics II (3 credits)**—Prerequisite(s): MATH 4047 or MATH 5047. A continuation of Mathematical Statistics I. An introduction to the theory of mathematical statistics, estimation, and hypothesis testing. Topics will include efficiency, consistency, sufficiency, robustness, methods of estimation, confidence intervals, Bayesian inference as well as the Neyman-Pearson lemma, power functions, likelihood ratio tests, hypothesis tests, and applications. Spring

**MATH 4127/5127 Introduction to Modern Algebra (3 credits)**—Prerequisite(s): MATH 2010 and MATH 2800. Introduction to the basic algebraic systems, including groups, rings, integral domains, and fields. Fall

**MATH 4137/5137 Introduction to Modern Algebra II (3 credits)**—Prerequisite(s): MATH 4127/5127. The study of rings is continued to include topics of factor rings, ideals and factorization. The study of field theory is expanded to include extension fields and splitting fields, time permitting. Sylow theory is included. Spring

**MATH 4157/5157 Introduction to Modern Geometry (3 credits)**—Prerequisite(s) or Corequisite(s): MATH 2010 and MATH 2800. An introduction to Euclidean and non-Euclidean geometries, emphasizing the distinction between the axiomatic characterizations, and the transformational characterizations of these geometries. Some history of the development of the discipline will also be included.

**MATH 4217/5217 Analysis I (3 credits)**—Prerequisite(s): MATH 2110 and 2800. Elements of point set topology, limits and continuity, differentiability, Taylor's theorem, approximation, Riemann integral. Fall

**MATH 4227/5227 Analysis II (3 credits)**—Prerequisite(s): MATH 4217. Infinite sequences and series, power series, real-valued functions of several variables, vector-valued functions of several variables, implicit function theorem, integral of multivariate functions. Spring

**MATH 4257/5257 Numerical Analysis (3 credits)**—(Co-listed in Computer Science) Prerequisite(s): MATH 1920 and MATH 2010. Floating point arithmetic and error propagation, numerical solution to functions of a single variable and functional approximation, numerical differentiation and integration, program design, coding, debugging, and execution of numerical procedures. Fall

**MATH 4267/5267 Numerical Linear Algebra (3 credits)**—(Co-listed in Computer Science) Prerequisite(s): MATH 1920 and 2010. Direct and iterative techniques for solving systems of linear equations, curve fitting, and eigenvalue-eigenvector methods. Spring

**MATH 4287/5287 Applications of Statistics (3 credits)**—Prerequisite(s): MATH 1530, MATH 2050, MATH 4047, or permission of instructor. An applied course in statistical methods with emphasis on the selection of an appropriate method, the required assumptions, and applications using statistical software. Comparison of two groups by parametric, nonparametric, and computer intensive methods. Analysis of variance (ANOVA), multiple regression, tests for two-way tables, odds ratio, and relative risk logistic regression. This course is recommended for graduate students from other disciplines who wish to apply statistics and to math majors interested in statistical applications and consulting.

**MATH 4307/5307 Sampling and Survey Techniques (3 credits)**—Prerequisite(s): MATH 1530, or 2050, or 4047, or permission of instructor. Topics to be selected from survey designs, simple random, stratified and systematic sampling, questionnaire construction, interviewing techniques, methods of estimation and costs.

**MATH 4327/5327 Time Series Analysis (3 credits)**—Prerequisite(s): MATH 2050 or equivalent. Methods for analysis of observations taken at equally spaced moments in time. Exploratory analysis of time series, decomposition approach, exponential smoothing and regression, time domain approach (ARIMA models), forecasting, introduction to the frequency domain approach, periodogram, and spectrum.

**MATH 4337/5337 Complex Variables (3 credits)**—Prerequisite(s): MATH 1920 and MATH 2010. Complex numbers and their algebra, complex differentiation and integration, analytic and elementary functions, residues and power series.

**MATH 4347/5347 Introduction to Graph Theory with Applications (3 credits)**—Prerequisite(s): MATH 2800. Topics include graph theory and applications, trees, planar graphs, graphical invariants, and networks. Spring

**MATH 4357/5357 Introduction to Topology (3 credits)**—Prerequisite(s): MATH 2800. Open and closed sets, continuous functions, metric spaces, connectedness, continuous functions, metric spaces, connectedness, compactness, the real line, and the fundamental group.

**MATH 4377/5377 The Theory of Interest (3 credits)**—Prerequisite(s): MATH 2110 or the equivalent, or permission of instructor. Topics include measurement of interest, accumulated and present value factors, annuities certain, yield rates, amortization schedules, and sinking funds and bonds, and related securities.

**MATH 4387/5387 Actuarial Mathematics I (3 credits)**—Prerequisite(s): MATH 2050 and MATH 4377/5377 or equivalent; or permission of instructor. Topics include survival distributions and life tables, life insurance, life annuities, benefit premiums, benefit reserves, and analysis of benefit reserves.

**MATH 4397/5397 Actuarial Mathematics II (3 credits)**—Prerequisite(s): MATH 4387/5387 or permission of instructor. A continuation of MATH 4387/5387. Topics include multiple life functions, multiple decrement functions, applications of multiple decrement theory, insurance models including expenses, and business and regulatory conditions.
Introduction to methods and materials appropriate to the teaching of secondary school mathematics. Topics include mathematics problem solving, integration of computing technology into mathematics instruction, systematic study of the foundations of secondary mathematics, and a survey of ideas and techniques associated with planning, delivering, and evaluating instruction in mathematics. Fall

MATH 4900 Independent Study (2-6 credits) — Prerequisite(s): MATH 4127. Designed for students who would like to pursue a study of an area of mathematics not covered in the curriculum. Students are expected to work independently, but under the close supervision of an instructor. A paper presenting their findings is required.

MATH 4957/5957 Topics in Mathematics (2-6 credits) — Prerequisite(s): MATH 2110 and MATH 210. Selected topics of current interest in mathematics. Offered upon sufficient demand for specified subject matter. May be repeated twice for different topics. Consultation with the instructor is recommended before enrollment.

MATH 4989 Cooperative Education (3 credits) — Prerequisite(s): MATH 4127. Designed for students who wish to pursue a temporary apprenticeship or experiential activity in a cooperative endeavor with an approved agency.

MATH 4999 Cooperative Education (3 credits) — Same as above.

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

MATH 5010 Patterns and Problem Solving for Elementary and Middle School Teachers (3 credits)
MATH 5015 Probability and Statistics for Elementary and Middle School Teachers (3 credits)
MATH 5025 Foundations and Structure of Mathematics 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 5080 Algebra for Teachers (3 credits)
MATH 5210-20 Real Analysis I and II (3 credits)
MATH 5310 Differential Geometry (3 credits)
MATH 5330 Axiomatic and Transformational Geometries (3 credits)
MATH 5340 Graph Theory and its Applications (3 credits)
MATH 5350 Topology (3 credits)
MATH 5410-20 Modern Algebra I and II (3 credits)
MATH 5510-20 Complex Analysis I and II (3 credits)
MATH 5610-20 Applied Mathematics I and II (3 credits)
MATH 5710-20 Statistical Methods I and II (3 credits)
MATH 5810-20 Operations Research I and II (3 credits)
MATH 5850-60 Numerical Analysis I and II (3 credits)
MATH 5900 Independent Study (1-6 credits)
MATH 5960 Thesis (1-3 credits)
MATH 5990 Readings and Research (1-9 credits)
MATH 5989-99 Cooperative Education (1-9 credits)

Mass Communications

MCOM

The department will accept no more than 12 semester credits or the equivalent in Mass Communications courses for transfer to be applied toward the degree.

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


MCOM 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 the consideration of different theories and systems of media dissemination of news, opinion, and information.

MCOM 3989-3999 Cooperative Education (1-3 credits)

MCOM 4018 Honors Thesis (3-6 credits) — Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

MCOM 4037/5037 Communications Law (3 credits) — Statutory law and judicial precedents affecting mass communication media, libel, contempt of court, invasion of privacy, copyright, broadcasting, advertising, and postal regulations.

MCOM 4040 Seminar in Mass Communications (1-6 credits) — A study of recent literature on developments and trends in mass communications. May be repeated.

MCOM 4900 Independent Studies in Mass Communications (1-3 credits)

MCOM 4957/5957 Topics in Mass Communications (2-6 credits)

MCOM 4989 Cooperative Education (1-3 credits)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

MCOM 5010 Comparative Mass Media Systems (3 credits)
MCOM 5019 Supervised Experience Teaching (1-3 credits)
MCOM 5020 Media and Cultural Diversities (3 credits)
MCOM 5029 Supervised Experience Research (1-3 credits)
MCOM 5030 Media and the First Amendment (3 credits)
MCOM 5037 Communications Law (3 credits)
MCOM 5039 Supervised Experience in Administration (1-3 credits)
MCOM 5040 Seminar in Mass Communications (1-6 credits)
MCOM 5050 Public Opinion (3 credits)
MCOM 5060 Seminar Media Ethics (3 credits)
MCOM 5070 Seminar in History of Mass Communications (3 credits)
MCOM 5900 Independent Studies in Mass Communications (1-6 credits)
MCOM 5960 Thesis (3-6 credits)
MCOM 5990 Read and Research (1-3 credits)

Educational Media and Educational Technology

MEDIA

MEDA 3570 Educational Technology (2 credits) — Prerequisite(s): MATH 1500 and 2110. The nature, functions, responsibilities of mass communications media and agencies. Survey of newspapers, magazines, radio, television, film, advertising, public relations, press associations, and specialized publications.

MGMT 3000 Organizational Behavior and Management (3 credits) — Prerequisite(s): Junior standing. An introduction to the managerial process emphasizing organizational behavior, theory, and development, and decision-making in complex organizations.

MGMT 3050 Decision Science (3 credits) — Prerequisite(s): ECON 2010 and junior standing. An introduction to basic management science methods emphasizing application and interpretation by managers. Topics include model-building process, decision theory, Bayesian decision analysis, linear programming methods including the simplex method and assignment and transportation models, basic inventory and production models, queuing models, and Monte Carlo simulation. Computer program packages are used.
MGMT 3100 Operations Management (3 credits)—Prerequisite(s): or Corequisite(s): MGMT 3000 and MGMT 3050. An introduction to the design, operation, and control of productive systems in both manufacturing and service organizations. Topics include product, process, plant, technology, and personnel decisions, facility layout and location, job design and work measurement, logistics, production, inventory, quality, and cost control systems.

MGMT 3200 Organizational Communications (3 credits)—Prerequisite(s): Junior standing. The various oral and written media and channels essential to organizational communications are examined. Guidelines for application and evaluation are presented with emphasis on the situational effectiveness of each medium and channel.

MGMT 3220 Management Information Systems (3 credits)—Prerequisite(s): CSCI 1100 and MGMT 3000. Integrates topics of management and organization theory, information and communication theory, and systems theory relevant to managing an organization's information resources. Includes computer and database concepts and emphasizes the design, analysis, operation, and control of information systems to aid management decision-making.

MGMT 3300 Written Organizational Communications (3 credits)—Prerequisite(s): Junior standing. The application of theory to the forceful composition of business communications. Intensive development of skills to prepare effective business letters, memos, and reports. Particular attention will be given to technical language.

MGMT 3310 Legal Environment of Business (3 credits)—Prerequisite(s): Junior standing. An introduction to our legal system with its impact on business. Business problems with legislation, judicial decisions, and governmental regulation are examined with special emphasis upon securities transactions, business taxes, and the Sherman, Clayton, and Robinson-Patman Acts.

MGMT 3320 Management and Social Responsibility (3 credits)—Prerequisite(s): MGMT 3310. A study of the legal and ethical aspects of business dealings with respect to employees, the environment, consumers, suppliers, distributors, and the general community.

MGMT 3330 Law of Commercial Transactions (3 credits)—Prerequisite(s): MGMT 3310. A survey of the law of commercial transactions including contracts, sales and agency partnerships, corporations, commercial paper, secured transactions, and bankruptcy. The course should be helpful in giving one a general knowledge of the substantive law of business and in preparing for the law section of the CPA exam.

MGMT 3650 Supply Chain Management (3 credits)—Prerequisite(s): MKTG 3310. A comprehensive course dealing with an approach to analyzing and managing logistics networks that improve a company's competitive position in the global marketplace. Issues dealing with resource flows through the supply chain will be discussed in lectures and cases.

MGMT 3660 Introduction to Project Management (3 credits)—Prerequisite(s): MGMT 3100. This course addresses project management from a management perspective rather than an engineering or mathematical perspective. It deals with the basic nature of managing projects, selecting projects, initiating them, operating and controlling projects, and terminating projects. The student should understand the demands made on the project manager and the nature of the manager's interaction with the rest of the parent organization.

MGMT 4010 Advanced Organizational Behavior (3 credits)—Prerequisite(s): MGMT 3000 and a declared major. A behavioral science approach to organizational management problems created by the interaction of individuals and organizations. Topics examined include motivation, leadership, organizational change, and development.

MGMT 4018 Senior Honors Seminar (3 credits)—Prerequisite(s): ECON 3088 and admission to the College of Business and Technology Honors Program. A seminar for College of Business and Technology honors students who are working on senior honors theses or other approved projects. Upon successful completion of the course, students will have demonstrated the ability to complete the research process by creating a written product suitable for submission to the College of Business and Technology faculty.

MGMT 4020 Organizational Theory and Development (3 credits)—Prerequisite(s): MGMT 3000. The study of the structure and functioning of organizations and an examination of the interactive effects of people, technology, and environments on the organization.

MGMT 4030 Current Management Issues (3 credits)—Prerequisite(s): Junior standing and MGMT 3000. A course designed to teach students in specific up-to-date issues tailored to their specific degree requirements. Areas such as total quality management, continuous improvement, team building, quick response, efficient customer response, enterprise resource planning, and business process re-engineering are developed through lectures and case studies to show the student real-world application.

MGMT 4210 Systems Analysis and Design (3 credits)—Prerequisite(s): MGMT 3220. An overview of systems development techniques including the life cycle and prototyping. There will be an emphasis on the techniques and tools of system documentation and logical system specifications. This course will incorporate management practices and principles as they pertain to the analysis, design, and implementation of information systems.

MGMT 4217/5217 Service Operations Management (3 credits)—Prerequisite(s): MGMT 3100 or permission of instructor. Application of operations management principles within the service environment, and illustrating new information technologies as strategic elements of service operations. Topics include managing services, structuring and scheduling, continuous improvements in quality and productivity. Quantitative models and case analysis will be included.

MGMT 4317/5317 Materials Management (3 credits)—Prerequisite(s): MGMT 3100. Design of information, forecasting, planning, and control systems for allocating resources and scheduling activities. Topics include operations information systems, forecasting, aggregate output planning, inventory control, materials requirements planning, and shop scheduling.

MGMT 4327/5327 Decision Modeling and Simulation (3 credits)—Prerequisite(s): CSCI 1100 and MGMT 3100. Concepts and methods for building and processing models which produce information about the behavior of complex organizational systems to support management decisions. Topics include simulation of inventory and queuing systems, flow-graphs, process generators, G/F, management planning, and network models.

MGMT 4330 Data Management (3 credits)—Prerequisite(s): MGMT 3220. A survey of database management systems and data communication systems with a focus on the managerial aspects of treating data as a resource. Introduction to file organization techniques, data structures, data manipulation languages, query languages, the relational database model, data communication concepts, networks, and management of distributed information systems.

MGMT 4347/5347 Collective Bargaining (3 credits)—Prerequisite(s): ECON 2210 and ECON 2220. A study of the organization of labor and management for collective bargaining, the subject matter for bargaining and bargaining procedures. A special study will be made of the laws affecting collective bargaining.

MGMT 4357/5357 CIM Applications (3 credits)—Prerequisite(s): Junior standing. An interdisciplinary course concerned with the concepts of business, computers, and manufacturing designed to explore the integration of these dynamic disciplines in the development of the Computer-Integrated Enterprise Field trips, and demonstrations will be used to support the lectures.

MGMT 4420 Law of Business Organizations (3 credits)—Prerequisite(s): MGMT 3310. A study of the laws governing sole proprietorships, partnerships, corporations, limited liability companies, and other types of business organizations. The legal duties and powers of officers, partners, board of directors, member-managed boards, member employees,
and shareholders are examined, as well as legal liability for business actions under civil and criminal law, including the federal criminal sentencing guidelines for organizations and methods to reduce civil and criminal liability.

MGMT 4430 Manufacturing and Technology Law (3 credits)—Prerequisite(s): MGMT 3310. An in-depth study on protecting company inventions, products, and confidential information by coverage of the laws applicable to trade secrets, patents, copyrights, trademarks, and trade dress, as well as confidentiality and non-compete agreements. Also covered are product liability law and other legal claims that may arise from the production and sale of products and technology-based services such as computer software and technical advice.

MGMT 4440 Governmental Regulation Business (3 credits)—Prerequisite(s): MGMT 3310. An examination of the functions of federal administrative agencies as defined by statutes, the Administrative Procedures Act, and judicial decisions, and their impact on the decision-making process in business. Topics include rule-making, investigatory procedures, enforcement, adjudication, due process, judicial review, and disclosure of information. Methods and practices businesses may use to successfully deal with proposed and current regulatory rules and decisions are emphasized.

MGMT 4450 International Business Law (3 credits)—Prerequisite(s): MGMT 3310. An examination of the legal aspects involved in developing and conducting international business transactions. The course emphasizes private law and its impact on the managerial decision-making process. Topics include the international aspects of commercial trade, governmental regulation, and dispute settlement.

MGMT 4460 Leadership Studies (3 credits)—The study of leadership from an historical and contemporary perspective. Students will identify, apply, and reflect on aspects of leadership development, including concepts of personal change toward effective leadership in a changing environment. Topics cover personal assessment and development, values and ethics, power and influence, followership, group dynamics, controversy with civility, and citizenship.

MGMT 4510 Human Resources Management (3 credits)—Prerequisite(s): MGMT 3000. A survey of the principles and policies concerning the personnel function of a business, its structure, job analysis, forecasting, recruiting, selecting, training, and evaluation. Special emphasis will be given to affirmative action programs, equal employment opportunity directives, legal decisions, and the practice of industrial relations in the field of American business enterprise today.

MGMT 4520 Human Resource Management in Team-Based Organizations (3 credits)—Prerequisite(s): MGMT 4510 or permission of instructor. This course prepares students to deal with the unique issues that arise in managing human resources in a team-based organization. The focus of the course is on self-managing work teams. Topics include recruiting and selecting team members, cross-training, skill-based pay and gainsharing compensation systems, and team performance appraisal.

MGMT 4530 Compensation Management (3 credits)—Prerequisite(s): MGMT 4510. An in-depth look at the role of the company, government, union, and employee in the design and administration of a compensation system and a survey of the problems faced by modern managers of such a system.

MGMT 4540 Personnel Research and Measurement (3 credits)—Prerequisite(s): ECON 2080 and MGMT 4510. A review and evaluation of appropriate studies in order to become familiar with personnel measurement techniques such as job evaluation, performance appraisal systems, morale surveys, and personnel auditing procedures.

MGMT 4560 Planning and Staffing (3 credits)—Prerequisite(s): MGMT 3000. An in-depth review of the concepts and techniques of planning and staffing used by organizations to ensure adequate recruitment and selection of skilled employees. Topics to be covered include staffing models, economic and labor market conditions, the impact of units in hiring, legal factors in recruiting and selection, strategic planning, job analysis, forecasting labor supply and demand, measurement issues, external and internal recruitment and selection, and staffing system management.

MGMT 4570 Training and Development (3 credits)—Prerequisite(s): MGMT 4510 or permission of instructor. An introduction to the concepts and techniques of training and development. The organization of the sources and methods used to determine training and development needs, to implement programs, and to evaluate the success of these programs.

MGMT 4587/5587 HRM Certification (3 credits)—Prerequisite(s): MGMT 4510 or the permission of instructor. A review of the content domain of human resource management topics as defined by the Society for Human Resource Management. Students will prepare for the Society of Human Resource Management's Human Resource Certification Institution Examination. Major content areas include professionalism and ethics, management practices, selection and placement, training and development, compensation and benefits, employee and labor relations, and health, safety and security. Practice exams are a major focus.

MGMT 4600 Personnel Law (3 credits)—Prerequisite(s): MGMT 3000 and MGMT 3310. A survey of the law concerning equal employment, worker safety, pensions, employee legal rights, workers' compensation, wage and credit law, and other areas of law. Emphasis is on practical knowledge essential to personnel department managers.

MGMT 4617/5617 Small Business Management (3 credits)—Prerequisite(s): MGMT 3000 or equivalent. A study of the opportunities, pitfalls, and problems in the creation and management of small business operations. Case studies are used to illustrate the application of principles.

MGMT 4657/5657 Strategic Environmental Management in Business (3 credits)—Prerequisite(s): MGMT 3000 or permission of instructor. This course prepares managers in business organizations to make successful business decisions which are compatible with a sustainable ecosystem. It provides the knowledge, values, and frameworks necessary to implement sustainable growth strategies in business organizations.

MGMT 4667/5667 Environmental Law for Business (3 credits)—Prerequisite(s): MGMT 3000, or MGMT 5020, or equivalent. The course is designed to provide students with an understanding of the environmental laws and regulations that influence decision-making in the current business climate. Topics include the process by which environmental legislation is developed and promulgated, how regulations are revised, and the basic scientific and policy foundations driving specific environmental legislation. Also covered is the interaction of the judicial process in the enforcement of environmental legislation. The student also will be introduced to the technical aspects of environmental legislation most affecting business operations and the manager's role regarding compliance issues.

MGMT 4900 Independent Study in Management (1-3 credits)—A course designed for advanced students who, under the direction of a management faculty member, wish to engage in independent research or an intensive study of subjects not covered in other available courses. Prior departmental and college approval is needed.

MGMT 4905 Management Internship (3 credits)—Prerequisite(s): Completion of, at least, six credit hours at the upper-division level in the student’s major, junior or senior standing and a 2.7 GPA or above. Students are selected through a competitive process for assignments in approved business or public-sector organizations as interns under the supervision of the internship coordinator and field placement supervisors. Students may not earn more than three semester credits for this course which can be used as a free elective or an elective within a business major, with prior approval by the chair.

MGMT 4910 Policy and Strategy Formulation (3 credits)—Prerequisite(s): D eland business major, and last-semester senior standing. Specific problems involved in the formulation of consistent business policies and the maintenance of efficient organizations.
**East Tennessee State University**

**MGMT 4957/5957 Topics in Management (3 credits)**—Prerequisite(s): Senior or graduate standing and permission of instructor. This course gives students an opportunity to study special problems and new developments in the field of management.

**Graduate Course Listing**

For Descriptions and Prerequisite(s) see the Graduate Catalog

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<th>Course Title</th>
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<td>Strategic Management Process</td>
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<td>BADM 5120</td>
<td>Managing Organizational Change</td>
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<td>BADM 5160</td>
<td>Information Infrastructure</td>
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<td>BADM 5320</td>
<td>Operations Strategy</td>
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<td>BADM 5340</td>
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<td>BADM 5600</td>
<td>Strategic Experience</td>
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<tr>
<td>MKTG 5010</td>
<td>Essentials of Management/Marketing</td>
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<td>MKTG 5020</td>
<td>Legal and Social Environment of Business</td>
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<tr>
<td>MKTG 5030</td>
<td>Quantitative Analysis for Operations Management</td>
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<tr>
<td>MKTG 5110</td>
<td>Operations Management</td>
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<td>MKTG 5230</td>
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<td>MKTG 5310</td>
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<td>MKTG 5401</td>
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<td>MKTG 5505</td>
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<td>MKTG 5525</td>
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<td>MKTG 5550</td>
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<td>MKTG 5590</td>
<td>Strategic Planning for Health Care</td>
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<td>Independent Study in Management</td>
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</tr>
<tr>
<td>MKTG 5910</td>
<td>Policy and Strategy Formulation</td>
<td>(3 credits)</td>
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**Marketing**

**MKTG**

**NOTE:** All students enrolling in upper-division 3000-4000 level College of Business and Technology courses must have junior or senior standing.

**MKTG 3200 Principles of Marketing (3 credits)**—Prerequisite(s): Junior standing. An introductory course designed to develop in students an understanding of basic marketing concepts and functions in market-oriented institutions. Marketing strategy is studied with appreciation for the constraints imposed by consumer behavior, marketing institutions, competition, and the law.

**MKTG 3202 Consumer Behavior (3 credits)**—Prerequisite(s): MKTG 3200. Study of the nature and dynamics of consumer markets. Emphasis is placed on the concepts and techniques used to identify and measure target areas relative to differing behavioral patterns for use in marketing strategy.

**MKTG 3210 Fundamentals of Distribution (3 credits)**—Prerequisite(s): ECON 2210 and MKTG 3200. This course reviews channels of marketing distribution and introduces component areas of distribution such as transportation, inventory control, warehousing, and material handling.

**MKTG 3250 Marketing Communications (3 credits)**—Prerequisite(s): MKTG 3200. A study of the role and influence of persuasive communications in demand stimulation and expansion. Behavioral theory underlying promotional techniques is emphasized and applications to mass communications, personal selling, and sales promotion are utilized.

**MKTG 3310 Business Logistics (3 credits)**—Prerequisite(s): ECON 2210 and MKTG 3200. Business logistics comprise the largest component of physical distribution costs. This course surveys the economic principles and institutional arrangements underlying managerial decisions on choice of transportation modes, carriers, and strategies.

**MKTG 3350 Retailing (3 credits)**—Prerequisite(s): MKTG 3200. A comprehensive course dealing with the role of retailing in the marketing environment. Location, buying, promotion, organization, personnel, and control in a retail enterprise are examined.

**MKTG 3740 Sales Force Management (3 credits)**—Prerequisite(s): MKTG 3200. Building upon a foundation of basic principles of salesmanship and persuasion, emphasis is placed upon the problems confronting sales executives, and the techniques, policies, and strategies used in their solution.

**MKTG 3750 Advertising Campaign Management (3 credits)**—Prerequisite(s): MKTG 3200 and MKTG 3202, or permission of instructor. Stresses the managerial aspects of advertising practice: setting objectives, creative and media strategies, budgeting, measuring effectiveness, and dealing with agencies. Controversial issues dealing with social and economic aspects of advertising and regulation of advertising are discussed.

**NOTE:** Students cannot receive credit for both ADVR 3750 and MKTG 3750.

**MKTG 4018 Senior Honors Seminar (3 credits)**—Prerequisite(s): ECON 3088 and admission to the College of Business and Technology Honors Program. A seminar for College of Business and Technology honors students who are working on senior honors theses or other approved projects. Upon successful completion of the course, students will have demonstrated the ability to complete the research process by creating a written product suitable for submission to the College of Business and Technology faculty.

**MKTG 4217/5217 Health Care Marketing (3 credits)**—Prerequisite(s): MKTG 3200 or permission of instructor. This course is intended to give students a basic theoretical and practical knowledge of marketing as applied to the health care industry. Emphasis will be placed on the emergence of marketing's importance in the health care industry, developing marketing information systems, and making marketing decisions in a health care context.

**MKTG 4617/5617 Marketing Research (3 credits)**—Prerequisite(s): MKTG 3200 and ECON 2080, or equivalent. A study and application of the research process and techniques used in marketing research. Project planning and design, data collection and analysis, and the preparation of research reports are emphasized through lecture and student projects.

**MKTG 4710 International Marketing (3 credits)**—Prerequisite(s): MKTG 3200 and MKTG 3202. Social, cultural, political, and economic variables are considered in studying marketing operations in foreign environments. Special attention is given to adaptation of the marketing mix and entry strategies.

**MKTG 4840 Food Marketing Issues and Strategies (3 credits)**—Prerequisite(s): MKTG 3200. A study of current issues which impact the agricultural, manufacturing, wholesaling, transportation, and retail segments of the food industry. Students analyze the relevant target markets and plan food marketing strategies for locally grown, manufactured, or distributed food products. The course uses case studies, service-learning projects, and lectures to focus on issues and strategies for food markets.

**MKTG 4900 Independent Study in Marketing (1-3 credits)**—A course designed for advanced students who, under the direction of a marketing faculty member, wish to engage in independent research or an intensive study of subjects not covered in other available courses. Prior departmental and college approval is needed.

**MKTG 4905 Marketing Internship (3 credits)**—Prerequisite(s): Completion of, at least, six credit hours at the upper-division level in the student's major, junior or senior standing, and a 2.7 GPA or above. Students are selected through a competitive process for assignments in approved business or public-sector organizations as interns under the supervision of the internship coordinator and field placement supervisors. Students may not earn more than three semester credits for this course which can be used as a free elective or an elective within a business major with prior approval by the chair.

**MKTG 4910 Marketing Management (3 credits)**—Prerequisite(s): MGT 3200 and PHR 3120. This course will offer an appreciation of the complexity of modern marketing and facility in analytical thought.

*Cross-listed with ADVR 3750*
Military Science

MSCI

MSCI 1180 Military Practicum I (1 credit)—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 and Alpine Tower will be incorporated into the instruction as a means of facilitating the team-building experience. Emphasizes ethical considerations for leaders, leadership skills, basic climbing, basic land navigation, marksmanship, and the importance of verbal and non-verbal communication skills.

MSCI 1217 Basic Military Physical Training (1 credit)—A physical conditioning class to promote high levels of fitness and to improve the health, endurance, and muscle strength of the body. This course may be repeated up to four (4) times for credit.

MSCI 1220 Mountaineering, Leadership, and Survival II (3 credits)—Prerequisite(s): MSCI 1210 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, combat water survival testing, 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 1210.

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(s): A proof 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 Fort Knox, Kentucky, is a four-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(s): Completion of the Basic Course or equivalent or approval of Professor of Military Science. 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. Fall

MSCI 3120 Military Skills III (3 credits)—Prerequisite(s): Completion of MSCI 3110 or approval of Professor of Military Science. 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. Spring

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 provide high levels of performance on the Army Physical Fitness Test (APFT) and will help prepare cadets for commissioning as second lieutenants.

MSCI 4110 Advanced Tactics (3 credits)—Prerequisite(s): Completion of MSCI 3120 or approval of Professor of Military Science. 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. Fall

MSCI 4120 Advanced Leadership (3 credits)—Prerequisite(s): Completion of MSCI 4110 or approval of Professor of Military Science. 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. Spring

MSCI 4580 National Advanced Leadership Camp (6 credits)—Prerequisite(s): Completion of MSCI 3110 and MSCI 3120. Training conducted at Fort Lewis, Washington, provides advanced course cadets with practical experience in leadership, methods of instruction, engineering, small unit tactics, weaponry, and communications while operating in a medium to high physically and mentally stressful environment.

Music

MUSC 1000 Orientation to the Music Program (1 credit)—A freshman success course focusing on the requirements for music majors, including curriculum, recital attendance, juries, and piano proficiency. Introduction to university systems and programs, including e-mail, counseling services, library, etc.

MUSC 1010 Class Piano I (1 credit)—Prerequisite(s): A diagnosis by consent of instructor. Class piano provides the non-keyboard music major with functional keyboard skills, such as the ability to sight-read, score-read, harmonize, transpose, and improvise.

MUSC 1020 Class Piano II (1 credit)—Prerequisite(s): MUSC 1010. A continuation of MUSC 1010.

MUSC 1030 Introduction to Music (3 credits)—An introduction to the development of music, with an emphasis on art music of the Western hemisphere. Topics include elements of music, instruments and ensembles, form, styles and periods, including major composers and works. Synthesis is encouraged through listening to and writing about music. Concert attendance outside class is required.

MUSC 1035 History of Jazz (3 credits)—A study of the origins, developments, and current trends in the jazz idiom. Course focuses on important musicians, styles, and bands that have shaped the development of jazz.

MUSC 1040 Class Voice (1 credit)—Group instruction in the fundamental processes of good singing, i.e., breathing, tone production, diction, etc.

MUSC 1202 Symphonic Wind Ensemble (1 credit)—A 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)—A concert organization which performs music of all forms, from classic to popular. Open to all students by consultation with instructor.
East Tennessee State University

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 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 director of music and activities.

MUSC 1271 Instrumental Chamber Groups (1 credit)—Study and performance of music for small instrumental ensembles. Admission by consent of the instructor.

MUSC 1272 Accompanying (1 credit)—Designed to provide ensemble experience for keyboard majors. Students will be assigned to accompany singers or instrumentalists under the supervision of applied music instructors. The accompanists will attend lessons, rehearse outside of lesson times, play for juries, and other performances as assigned.

MUSC 1400 Music Fundamentals (2 credits)—Elementary music theory and practice in aural skills for the nonmusic major and music major with limited or no theory background.

MUSC 1410 Theory I (2 credits)—Basic study of scales, keys, intervals, and diatonic harmony. Study of basic musical forms Analysis of Baroque and Classical compositions. Admission by consent of instructor.

MUSC 1411 Aural Skills I (1 credit)—Sight-singing, melodic, harmonic, and rhythmic dictation. (Laboratory for MUSC 1410)

MUSC 1420 Theory II (2 credits)—Prerequisite(s): MUSC 1410. A continuation of MUSC 1410.

MUSC 1421 Aural Skills II (1 credit)—Prerequisite(s): MUSC 1411. A continuation of MUSC 1411.

MUSC 1801 Applied Piano Level I (1-2 credits)

MUSC 1811 Applied Winds Level I (1-2 credits)

MUSC 1821 Applied Strings Level I (1-2 credits)

MUSC 1841 Applied Voice Level I (1-2 credits)

MUSC 1851 Applied Percussion Level I (1-2 credits)

MUSC 1871 Applied Guitar Level I (1-2 credits)

MUSC 2010 Class Piano III (1 credit)—Prerequisite(s): MUSC 1020. A continuation of MUSC 1020.

MUSC 2020 Class Piano IV (1 credit)—Prerequisite(s): MUSC 2010. A continuation of MUSC 2020.

MUSC 2410 Theory III (2 credits)—Prerequisite(s): MUSC 1420. A continuation of Theory I and II. Chromatic harmony and contemporary techniques. Analysis of Romantic and Modern compositions.

MUSC 2411 Aural Skills III (1 credit)—Prerequisite(s): MUSC 1421 A continuation of Aural Skills I and II.

MUSC 2420 Theory IV (1 credit)—Prerequisite(s): MUSC 2410 A continuation of MUSC 2410.

MUSC 2421 Aural Skills IV (1 credit)—Prerequisite(s): MUSC 2411 A continuation of MUSC 2411.

MUSC 2540 Music History Survey (3 credits)—Music from antiquity through 1600.

MUSC 2550 Music History Survey II (3 credits)—Prerequisite(s): MUSC 2540. Music from 1600 through 1760.

MUSC 2600 String Methods (2 credits)—A survey of string instruments and equipment. Includes playing fundamentals, materials, and teaching techniques.

MUSC 2620 Instrumental Survey (2 credits)—Prerequisite(s): Vocal and keyboard/vocal music education majors only. A survey of playing and teaching techniques for band and orchestral instruments.

MUSC 2630 Woodwind Methods I (2 credits)—Development of performance skill and teaching knowledge of the clarinet and flute.

MUSC 2631 Woodwind Methods II (1 credit)—Prerequisite(s): MUSC 2630. Development of performance skill and teaching knowledge of the oboe and bassoon.

MUSC 2660 Brass Methods (2 credits)—Study of the brass instrument family with special emphasis on teaching materials and pedagogical aspects. Instruments included are trumpet, horn, trombone, euphonium, and tuba.

MUSC 2661 Brass Methods II (1 credit)—Prerequisite(s): MUSC 2660. A continuation of Brass Methods I.

MUSC 2690 Percussion Methods (2 credits)—A survey of percussion instruments and equipment designed for music education majors. Includes playing fundamentals, materials, and teaching techniques.

MUSC 2710 Diction for Singers I (1 credit)—The study of Italian and German diction to develop correct pronunciation and authentic accent for singing.

MUSC 2720 Diction for Singers II (1 credit)—The study of French diction to develop correct pronunciation and authentic accent for singing.

MUSC 2901 Applied Piano Level II (1-2 credits)

MUSC 2911 Applied Winds Level II (1-2 credits)

MUSC 2921 Applied Strings Level II (1-2 credits)

MUSC 2941 Applied Voice Level II (1-2 credits)

MUSC 2951 Applied Percussion Level II (1-2 credits)

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

MUSC 3202 Symphonic Wind Ensemble (1 credit)—Prerequisite(s): Two semesters of MUSC 1202 and upper-division standing. Open to all students by consultation with instructor. Concert organization which prepares and performs representative traditional and contemporary works for the wind medium. May be repeated for credit.
MUSC 3203 Concert Band (1 credit)—Prerequisite(s): Two semesters of MUSC 1203 and upper-division standing. Open to all students by consultation with instructor. Concert organization which prepares and performs music of all forms, from classic to popular. May be repeated for credit.

MUSC 3204 Orchestra (1 credit)—Prerequisite(s): Two semesters of MUSC 1204 and upper-division standing. Admission by permission of instructor. Study and performance of orchestral literature. May be repeated for credit.

MUSC 3206 Chamber Orchestra (1 credit)—Prerequisite(s): Two semesters of MUSC 1206 and upper-division standing. Admission by consent of instructor. An ensemble for the performance of chamber orchestra literature. May be repeated for credit.

MUSC 3211 Brass Choir (1 credit)—Prerequisite(s): Two semesters of MUSC 1211 and upper-division standing. Admission by consent of instructor. Study and performance of brass chamber music. May be repeated for credit.

MUSC 3212 Woodwind Ensemble (1 credit)—Prerequisite(s): Two semesters of MUSC 1212 and upper-division standing. Study and performance of standard chamber music literature suitable for the ability and instrumentation of the ensemble. May be repeated for credit.

MUSC 3213 String Ensemble (1 credit)—Prerequisite(s): Two semesters of MUSC 1213 and upper-division standing. Admission by consent of instructor. Study and performance of string literature. May be repeated for credit.

MUSC 3214 Percussion Ensemble (1 credit)—Prerequisite(s): Two semesters of MUSC 1214 and upper-division standing. Admission by consent of instructor. Study and performance of percussion literature. May be repeated for credit.

MUSC 3215 Collegium Musicum (1 credit)—Prerequisite(s): Two semesters of MUSC 1215 and upper-division standing. Admission by consent of instructor. Study and performance of music in the 13th - 18th centuries on instruments appropriate to the period. May be repeated for credit.

MUSC 3217 Opera Workshop (1 credit)—Prerequisite(s): Two semesters of MUSC 1217 and upper-division standing. Open to any person interested in singing, coaching, directing, orchestral playing, costuming, set construction, lighting, publicizing, and producing for the public. A practical laboratory approach to the study and presentation of opera. May be repeated for credit.

MUSC 3220 Musical Theatre Practicum (1 credit)—Prerequisite(s): Two semesters of MUSC 1220 and upper-division standing. Admission by consent of instructor. Open to any person interested in singing, dancing, acting, orchestral playing, costuming, coaching, set construction, and other aspects of theatre. May be repeated for credit.

MUSC 3221 Choir (1 Credit)—Prerequisite(s): Two semesters of MUSC 1221 and upper-division standing. Open to all students by consultation with director of choral activities. Study and performance of accompanied and unaccompanied choral music of all periods. May be repeated for credit.

MUSC 3241 Jazz Singers (1 credit)—Prerequisite(s): Two semesters of MUSC 1241 and upper-division standing. Open to all students by consultation with director of choral activities. Study and performance of popular styles. May be repeated for credit.

MUSC 3251 Chorale (2 credits)—Prerequisite(s): Two semesters of MUSC 1251 and upper-division standing. Admission by consent of instructor. Small vocal groups created for performance of various types of ensemble music. May be repeated for credit.

MUSC 3261 Jazz Ensemble (1 credit)—Prerequisite(s): Two semesters of MUSC 1261 and upper-division standing. Open to all students by consultation with instructor. Study devoted to jazz and pop styles. Attention given to improvisation and understanding of stylistic problems.

MUSC 3271 Instrumental Chamber Group (1 credit)—Prerequisite(s): Two semesters of MUSC 1271 and upper-division standing. Admission by consent of instructor. Study and performance of music for small instrumental ensembles. May be repeated for credit.

MUSC 3272 Accompanying (1 credit)—Prerequisite(s): Two semesters of MUSC 1271 and upper-division standing. Designed to provide ensemble experience for keyboard majors. Students will be assigned to accompany singers or instrumentalists under the supervision of applied music instructors. The accompanists will attend lessons, rehearse outside of lesson times, and play for juries and other performances as assigned. May be repeated for credit.

MUSC 3310 Music Skills for Classroom Teachers (3 credits)—Prerequisite(s): Two semesters of MUSC 1214 and upper-division standing. Admission by consent of instructor. Study and performance of percussion literature. May be repeated for credit.
MUSC 4601 Vocal Pedagogy (2 credits) — Prerequisite(s): Two years of vocal study. The study of the principles, techniques, and materials for developing effective singing, including anatomy of the vocal mechanism, problems of breath control, concept of tone, diction, and principles of song interpretation.

MUSC 4610 Vocal Arranging (2 credits) — Prerequisite(s): MUSC 4600. Experience in arranging music for various vocal groups, including choir, jazz band, and jazz singers.

MUSC 4617/5617 Teaching Beginning Piano (3 credits) — Prerequisite(s): Level II— standing in piano or permission of instructor. Examination of methods and materials used in beginning-level piano instruction of adults and children.

MUSC 4627/5627 Teaching Intermediate Piano (3 credits) — Prerequisite(s): Level II— standing in piano or permission of instructor. Examination, guided instruction, and performance of literature used in intermediate-level piano instruction.

MUSC 4637/5637 Piano Pedagogy Practicum (1 credit) — Prerequisite(s): Level II— standing in piano or permission of instructor. Supervised teaching experience with the beginning piano student. Students will plan, implement, and evaluate instruction. Meets one (1) clock hour per week.

MUSC 4720 Art Song Literature (2 credits) — A survey of solo vocal literature from the 17th century to the present, including French, German, British, and American repertoire.

MUSC 4730 Choral Literature (3 credits) — Survey of important choral works from Renaissance to the present.

MUSC 4740 Keyboard Literature and Pedagogy (3 credits) — A survey of the basic literature of the harpsichord and piano performance, analysis, and research. A study of pedagogical methods and materials.


MUSC 4780 String Literature and Pedagogy (3 credits) — A survey of string literature, performance analysis, and research. A study of pedagogical methods and materials.

MUSC 4810 Introduction to Suzuki Philosophy (2 credits) — Prerequisite(s): Permission of instructor. This course is an exploration of the historical development of the Suzuki Method, the Suzuki philosophy as it pertains to how children learn, and Suzuki methodology.

MUSC 4820 Suzuki Pedagogy (2 credits) — Prerequisite(s): Permission of the instructor. This course develops performance skills and pedagogical understanding of the sequential Suzuki repertoire. Observations of Suzuki lessons and classes are included in the field work for this course.

MUSC 4840 Teaching Practicum I (1 credit) — Prerequisite(s): MUSC 4820 or equivalent. An introductory experience in teaching the Suzuki Method, operating in a controlled, supervised setting.

MUSC 4850 Teaching Practicum II (1 credit) — Prerequisite(s): MUSC 4840 or the equivalent. An advanced experience in Suzuki teaching. Involves teaching Suzuki students through the ETSU Suzuki Studies Program.

MUSC 4910 Independent Study (1-3 credits) — Prerequisite(s): Contract must be on file prior to registration. Contract available in Mathes Hall, Room 100. Individual research, under the direction of a member of the music faculty.

MUSC 4957 Special Topics in Music (1-6 credits)

MUSC 4989-99 Cooperative Education (1-3 credits)
**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 technique.

**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 additional fee associated with this class.

**PHED 2230 Fencing (1 credit)**—Designed to allow students to develop fundamental skills in foil fencing. Students will learn the mechanics and strategies of fencing, as well as develop elementary judging skills. Foils, jackets, and masks are provided.

**PHED 2235 Golf (1 credit)**—This course will present the history, rules, skills, and techniques of golf. Students will learn fundamental golf skills (driving, pitching, chipping, and putting) throughout the semester and should be able to execute these skills at a proficient level through practice and individual play.

**PHED 2250 Lacrosse (1 credit)**—Designed to provide students with the fundamental skills and strategies of lacrosse. Students will actually use STX ball equipment to simulate the game of lacrosse.

**PHED 2255 Racquetball (1 credit)**—This course will present the history, rules, skills, and techniques of racquetball. The student will develop racquetball skills throughout the semester and should be able to execute these skills at a proficient level through practice and tournament play.

**PHED 2260 Softball (1 credit)**—This course is designed to give students a foundation of fundamental skills and knowledge related to the game of slow-pitch softball.

**PHED 2265 Soccer (1 credit)**—This is a course designed to give students a foundation of fundamental skills and knowledge related to the game of soccer.

**PHED 2270 Tennis (1 credit)**—Students will be introduced to the fundamentals of tennis and learn to use basic strokes of the serve, return of serve, and ground strokes (forehand and backhand) to play a match. Students will learn proper court positions for executing these strokes and effective movement and court coverage. Some attention will be given to tennis terminology, etiquette, and match procedures so that students can conduct matches properly.

**PHED 2275 Advanced Tennis (1 credit)**—Prerequisite(s): beginning tennis or display of tennis skills. This course will present advanced tennis skills. Students will learn advanced strategies and rules for playing tennis.

**PHED 2280 Volleyball (1 credit)**—Knowledge, skills, and methods of power volleyball activities are taught. Emphasis will be placed on rules and beginning skills.

**PHED 2305 Karate (1 credit)**—History, knowledge, skills, and strategy involved in the study of classical karate and self-defense. Special emphasis will be placed on skills and strategy. There is an additional fee associated with this class.

**PHED 2310 Judo (1 credit)**—This course is designed to introduce Kodokan Judo in a traditional manner. Basic throws, choking, and blocking techniques will be taught. Training methods, ranking, protocol, and contest rules of the International Judo Federation will be used throughout the course. There is an additional fee associated with this class.

**PHED 2315 Self-Defense (1 credit)**—Basic strategy and skills used in self-defense. Special emphasis will be placed on developing a proper attitude toward self-defense and preventive measures in avoiding confrontations, as well as initiating self-defense techniques for escape. There is an additional fee associated with this class.

**PHED 2400 Beginning Swimming (1 credit)**—The purpose of this course is for students to learn beginning swimming skills and any additional swimming skills that can be completed during the semester.

**PHED 2410 Advanced Swimming (1 credit)**—Prerequisite(s): beginning swimming or display of swimming skills. This course will present advanced swimming skills primarily in the form of stroke work. The primary strokes taught will be the front crawl, breast stroke, side stroke, butterfly, and elementary back stroke. Pre-lifeguarding skills will also be developed.

**PHED 2420 Lifeguarding (2 credit)**—This course is designed to provide students with the skills and knowledge to meet certification requirements of the American Red Cross.

**PHED 2430 Water Safety Instructor (3 credits)**—This course is designed to fulfill the requirements of the American Red Cross for certification as a swimming instructor.

**PHED 2440 Scuba (1 credit)**—Prerequisite(s): The scuba course is designed to provide basic instruction in snorkeling and scuba diving. This course will lead to open water certification following the satisfactory completion of the written examination and checkout dive in open water. Certification is optional. There is an additional fee associated with this class.

**PHED 2441 Advanced SCUBA Diving (1 credit)**—Prerequisite(s): Completion of PHED 2440 or equivalent certification and permission of instructor. This course is designed to provide the Open Water Diver with advanced SCUBA skills obtained through additional classroom presentations beyond the basic level and at least five (5) open water SCUBA dives. The Advanced Open Water candidate will develop a more in-depth understanding of equipment, techniques, and safety factors associated with safely enjoying an advanced level of sport SCUBA diving.
PHED 2505 Camping and Canoeing (2 credit)—Designed to provide students with camping and canoeing knowledge and skills through practical experience. Includes types of camping equipment, improvised equipment, and outdoor cooking. There is an additional fee associated with this class.

PHED 2507 Kayaking (1 credit)—This course is designed to provide the student with the knowledge and skills needed to participate in and enjoy kayaking as a recreational lifetime activity. Special emphasis will be given to the development of sound fundamental knowledge and skills such as paddling and steering techniques; rolling; fitting, care and use of equipment; personal safety skills; and reading moving water. Due to the nature of this course, all students will be required to make class field trips to paddling sites in the surrounding area. This course will be offered in conjunction with the Center for Physical Activity and will involve additional cost to cover the use of equipment and travel to paddling sites in the area.

PHED 2509 Kayak Touring (1 credit)—This course is designed to provide the student with the knowledge and skills needed to participate in and enjoy kayaking touring as a recreational lifetime activity. Special emphasis will be given to the development of sound fundamental knowledge and skills such as paddling and steering techniques; multi-day trip planning; packing equipment in the kayak; fitting, care and use of equipment;

PHED 2510 Horseback Riding/Equitation (1 credit)—General riding and equestrian skills are taught at the riding stables in Jonesborough, Tennessee. There is an additional fee associated with this class.

PHED 2515 Marksmanship (1 credit)—A study and application of the basic fundamentals of rifle and pistol marksmanship, to include safety. Students must supply their own ammunition.

PHED 2520 River Rafting (1 credit)—This course is designed to provide students with the knowledge and skills needed to participate in and enjoy river rafting as a recreational lifetime activity. Special emphasis will be given to the development of sound fundamental knowledge and skills such as paddling and steering techniques, selection, care and use of equipment, personal safety skills, and reading white water. Due to the nature of this course, all students will be required to make class field trips to rivers in the surrounding area.

PHED 2525 Rock Climbing (1 credit)—This course is designed to provide students with the knowledge and skills needed to participate in and enjoy basic rock climbing and rappelling. Special emphasis will be given to the development of sound fundamental knowledge and skills such as knots and their uses, understanding the belay system, selection, care and use of equipment, and basic rock climbing and rappelling technique. Due to the nature of this course, all students will be required to make class field trips to different climbing locations in the surrounding area.

PHED 2527 Caving (1 credit)—This course is designed to provide students with the knowledge and skills needed to participate in and enjoy caving as a recreational lifetime activity. Special emphasis will be given to the development of sound fundamental knowledge and skills such as equipment selection, use and management, descending and ascending techniques, selection of personal equipment, safety, basic cave mapping techniques, and understanding and appreciating the cave environment. Additional emphasis will be given to development of a socially responsible attitude toward use of natural resources. Due to the nature of this course, all students will be required to make class field trips to caving sites in the surrounding area. This course will be offered in conjunction with the Center for Physical Activity and will involve additional cost to cover the use of equipment and travel to caving sites in the area.

PHED 2530 Mountain Biking (1 credit)—This course is designed to provide students with the knowledge and skills needed to participate in and enjoy mountain biking as a lifetime activity. Special emphasis will be given to the development of sound fundamental knowledge and skills such as selection, care and use of equipment, riding techniques, basic bike repairs, personal safety skills, and riding with environmental awareness. Due to the nature of this course, all students will be required to make class field trips to different trail and mountain biking locations in the surrounding area.

PHED 2535 Canoeing (1 credit)—This course is designed to provide students with the knowledge and skills needed to participate in and enjoy canoeing as a lifetime activity. Special emphasis will be given to the development of sound fundamental knowledge and skills such as selection, care and use of equipment, both solo and tandem paddling techniques, transporting a canoe, personal safety skills, and reading moving water. Due to the nature of this course, all students will be required to make class field trips to different lakes and rivers in the surrounding area.

PHED 2540 Snowboarding (1 credit)—This course is designed to provide students with the knowledge and skills needed to participate in and enjoy snowboarding as a lifetime activity. Special emphasis will be given to the development of sound fundamental knowledge and skills such as selection, care and use of equipment. Due to the nature of this course, all students will be required to make class field trips to different snowboarding sites in the surrounding area.

PHED 2545 Skiing (1 credit)—A practical learning experience dealing with snow skiing. Students take lessons from a certified ski instructor through the French Swiss Ski School in Blowing Rock, North Carolina. Students have an opportunity to ski different slopes in North Carolina. There is an additional fee associated with this course.

PHED 2550 Orienteering (1 credit)—Orienteering is an outdoor activity in which the participant utilizes the skills of topographic map reading and following directions by compass or other means to navigate over unfamiliar terrain. The skills of orienteering can be used to enjoy many outdoor pursuits such as camping, backpacking, hiking, cross-country skiing, fishing, and hunting, or the “sport” of orienteering.

PHED 2553 Backpacking (1 credit)—This course is designed to provide students with the knowledge and skills needed to participate in and enjoy backpacking as a recreational lifetime activity. Special emphasis will be given to the development of sound fundamental knowledge and skills such as selection, care and use of backpacking equipment, tents and their uses, fire building and cooking, menu and trip planning, personal safety skills, and backpacking with environmental awareness. Due to the nature of this course, all students will be required to make class field trips.

PHED 2555 Outdoor Living Skills (1 credit)—This course is designed to provide students with the knowledge and skills needed to participate in and enjoy outdoor living as a recreational lifetime activity. Special emphasis will be given to the development of sound fundamental knowledge and skills, such as selection, care and use of equipment, tenting, fire building and cooking, menu and trip planning, personal safety skills, and camping with environmental awareness. Due to the nature of this course, all students will be required to make class field trips.

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

Kinesiology, Leisure and Sport Sciences

Major-Minor Courses

PEXS 2701 Aquatics (1 credit)—Knowledge, skills, and methods of basic water safety, survival, and rescue techniques.

PEXS 2950 Disaster Response Training (3 credits)—Prerequisite(s): Completion of PUBH 2030 or permission of instructor. This course will introduce students to service-learning and leadership through the Disaster Response Training program of the American Red Cross. Service projects selected to enhance the classroom components of this course will be required and, if such an event should arise during the course, an opportunity to respond to an actual emergency or disaster will also be included. Students completing this course will be eligible to serve as members of the RESPO NSE – ET SU cadre and as a American Red Cross Disaster Response Volunteers.

PEXS 2955 Care and Prevention of Athletic Injuries (3 credits)—Basic principles in the prevention, recognition, and care of athletic injuries are presented. Students will also learn the duties of an athletic trainer and sports medicine team. $20 lab fee required.
PEXS 3000 Physical Education Programs for the Elementary Schools (3 credits)—Study of the curricular content of the elementary school physical education program which includes components relating to the development of physical fitness, perceptual motor skills, rhythmical movement education, and educational game activities. This course is for students in elementary education programs. Field experience is required.

PEXS 3005 Instructional Delivery Techniques for Movement (3 credits)—The purpose of this course is to assist prospective teachers and movement instructors in acquiring the fundamental knowledge and skills needed to promote learning. Opportunities will be provided for students to learn and practice the essential skills of effective instruction and delivery. Instruction will be provided to assist students in developing the skills of reflective thinking, problem solving, and working with individuals with different cultural perspectives.

PEXS 3008 Honors Service-Learning (1 credit)—Prerequisite(s): A division to the College of Education's honors program and HDA L 2008. Honors service-learning in social/ cultural agencies and programs related to education.

PEXS 3021 Theory and Techniques of Coaching Tennis (2 credits)—An introduction to the organization and administration of a tennis team.

PEXS 3022 Theory and Techniques of Coaching Track and Field (2 credits)—Theory and practice of the techniques involved in coaching track and field.

PEXS 3032 Psychomotor Development in Children (3 credits)—This course will provide instruction in the psychomotor development of children, with special consideration for capabilities, diagnostic tests, and perceptual-motor programs. Field experience is required.

PEXS 3061 Theory and Techniques of Coaching Basketball (2 credits)—Theory and practice in the coaching of basketball. Emphasis will be placed on coaching philosophies, fundamental skills, and offensive and defensive strategies.

PEXS 3062 Theory and Techniques of Coaching Volleyball (2 credits)—Theory and practice in coaching fundamentals of power volleyball. Emphasis will be on coaching philosophies, basic skills, and strategies.

PEXS 3071 Theory and Techniques of Coaching Football (2 credits)—Theory and practice in the coaching of football. Emphasis will be on coaching philosophies, fundamentals, psychology, and strategies.

PEXS 3072 Theory and Techniques of Coaching Baseball (2 credits)—Theory and practice in coaching fundamentals of baseball. Emphasis will be placed on coaching philosophies, basic skills, and strategies.

PEXS 3080 Teaching Aerobic Conditioning (3 credits)—Includes the theory and teaching techniques of the principles of aerobic. Fitness as 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 Gymnastics (3 credits)—This course will present a broad base of information as it relates to fundamental movement skills, teaching techniques, and vocabulary basic to elementary rhythmic activities.

PEXS 3095 Teaching Sports Skills (3 credits)—The purpose of this course is to teach students performance and instructional skills for selected individual, dual, and team sports.

PEXS 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)—This course is designed as an introduction to the historical, philosophical and sociological foundations of physical education and sport.

PEXS 3610 Exercise Physiology I (3 credits)—Prerequisite(s): HSCI 3000 and HSCI 3020. The study of the physiological responses and adaptations of the human body to exercise and training.

PEXS 3655 Sports Nutrition (3 credits)—Prerequisite(s): FA CS 2420. This course is designed to provide a student with the most current information for understanding how to enhance athletic performance with proper nutrition. Students will understand how to develop nutritionally sound diets for endurance, speed, and strength-related activities. In addition, special nutritional needs will also be discussed (e.g., gaining muscle mass or lowering body fat content).

PEXS 3850 Scientific Basis of Human Performance (4 credits)—Prerequisite(s): HSCI 2010/11 or HSCI 2020/21. This course is designed to provide a student with an understanding of the scientific principles of human performance. Students will learn how training and detraining affect various aspects of an individual's physiological, biochemical, and biomechanical performance attributes.

PEXS 4001 Teaching Sports Skills II (3 credits)—The purpose of this course is to teach students performance and instructional skills for selected team sports.

PEXS 4007/5007 Elementary Physical Education methods (3 credits)—Prerequisite(s): PEXS 3005, PEXS 3032, and admitted to Teacher Education Program. This course is designed to provide instruction and experiences in program content, teaching methods, and learning styles for developmentally appropriate physical education program for children ages 5 to 19. Emphasis will be placed on movement education, rhythm, body management, fundamental motor skills, and fitness/wellness appropriate to the kindergarten through fifth grade child. Field experiences will include working with students at University School during class time, as well as observing for twenty (20) hours at designated elementary schools.

PEXS 4018 Honors Thesis (3-6 credits)—Open to those in university honor programs only. A capstone experience serving as the culmination of an honors curriculum.

PEXS 4060 Measurement and Evaluation in Physical Education (3 credits)—A course designed to acquaint future teachers with techniques of evaluating and measuring the process of physical education and the psychomotor, cognitive, and affective domains of the student.

PEXS 4061 Exercise Fitness Testing (3 credits)—Prerequisite(s): PEXS 3610. The purpose of this course is to provide knowledge in exercise testing and prescription for healthy populations. Students will develop the skills and technical procedures necessary in the training of exercise fitness technologists. Hands-on experience will be available in the following: underwater weighing, VO2 max testing, treadmill, ergometer cycle, and other laboratory tests and equipment.

PEXS 4062 Cardiovascular Exercise Testing and Electrocardiography (3 credits)—This course is designed to provide the student with the background needed to function as a clinical exercise specialist. Additionally, the course will provide the background to allow the student to obtain exercise specialist or other clinical specialty certifications, offered by the American College of Sports Medicine and other internationally recognized organizations.

PEXS 4150 Special Olympics Coaching (3 credits)—Designed to provide students with the knowledge and skills necessary to apply for coaching certification through Special Olympics International, Inc., in the
PEXS 4250 Physical Education Activities for Atypical Populations (3 credits)—Prerequisite(s): PEXS 3005 and PEXS 3032. A study of the legal, medical, and educational bases for physical activity programs for individuals with disabilities, with emphasis on evaluation, placement, and instruction. Field experience is required.

PEXS 4270 Structural Kinesiology (3 credits)—Prerequisite(s): HSCI 2010/11 and HSCI 2020/21; or equivalent, physics recommended. An introduction to the study of the anatomical bases of human movement, with emphasis on bone growth and development, joint structure and movement potential, and muscular involvement during movement.

PEXS 4467/5467 Metabolic Aspects of Nutrition and Exercise in Disease (3 credits)—Prerequisite(s): FA CS 2420 and PEXS 3610. This course is designed to provide an in-depth investigation of the physiologically and metabolically related aspects of exercise and nutrition in the prevention and treatment of metabolic diseases. Students will also learn the scientific basis of how specific health intervention strategies affect these diseases mechanistically from a pathological perspective.

PEXS 4600 Athletic Coaching Practicum (3 credits)—Prerequisite(s): See department. Provides the student with the opportunity to be actively involved in a middle, junior high, or secondary coaching experience. Includes the application of theoretical knowledge to practical situations.

PEXS 4620 Exercise Physiology II (3 credits)—Prerequisite(s): BIOL 1110/11, CHEM 1310/11, CHEM 1320/21, HSCI 3000/20, PEXS 3610. This course presents a foundation for understanding the underlying mechanisms behind the physiological and biochemical acute responses to exercise and also discusses the long-term physiological and biochemical adaptations to exercise.

PEXS 4630 Exercise Science Internship I (6 credits)—Prerequisite(s): PEXS 3610, PEXS 3695, PEXS 4061 and permission of instructor. This course is designed to provide the student with an actual worksite experience in the area of exercise science. The internship experience will require a minimum of 240 hours of field experience.

PEXS 4631 Exercise Science Internship II (6 credits) —Prerequisite(s): PEXS 3610, PEXS 3695, PEXS 4061, and permission of instructor. This course is the second in a series designed to provide the student with an actual worksite experience in the area of exercise science. The internship experience will require a minimum of 240 hours of field experience.

PEXS 4650 Strategies in Developing Wellness Programs (3 credits)—Prerequisite(s): PEXS 3650. This course was designed to provide students with an opportunity to evaluate current wellness program strategies at the educational (K-12 initiatives), university, community, corporate, and clinical setting.

PEXS 4717/5717 Secondary Wellness Education (3 credits)—Prerequisite(s): PEXS 2955, PEXS 3005, PEXS 3032, PEXS 3080, and admission to Teacher Education. This course provides students with content knowledge and pedagogical skills necessary to teach lifetime wellness in the secondary school.

PEXS 4977/5977 Exercise Management for Persons with Chronic Diseases and Disabilities (3 credits)—Prerequisite(s): PEXS 3610. This course will examine chronic diseases and disabilities that occur in many individuals. It is oriented toward understanding the disease, the effects exercise may have on the disease, and modifications to general exercise programs. Annually

Graduate Course Listing
For Descriptions and Prerequisite(s) see the Graduate Catalog

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<tr>
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<td>PEXS 5021</td>
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<td>PEXS 5420</td>
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<td>PEXS 5430</td>
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<td>PEXS 5950</td>
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<tr>
<td>PEXS 5990</td>
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Philosophy

PHIL 1030 Introduction to Philosophy (3 credits)—An introduction to some central philosophical problems concerning free will, the self, science, and reality.

"PHIL 1218 Honors Quest for Meaning and Values I (3 credits)—Open to those in the Honors Scholars Program only. A rigorous course in the humanities that aims at deepening skills of critical reading and writing and at cultivating a broad cultural literacy.

PHIL 1228 Honors Quest for Meaning and Values II (3 credits)—Open to those in the Honors Scholars Program only. The second part of a humanities course that aims at developing cultural understanding while honing critical reading and writing skills.

PHIL 2020 Introduction to Ethics (3 credits)—An introduction to some central philosophical problems concerning morality, freedom, and political authority.

PHIL 2030 Practical Reasoning (3 credits)—An introductory study of formal and informal reasoning in practical contexts (editorials, speeches, advertising, etc.) Also includes a study of syllogistic reasoning, the scientific method, definition, and clear writing.

PHIL 2040 Philosophy as Conversation (3 credits)—An introduction to philosophy as self-examination. Focus on discussion of the beliefs and values of the students in the class.

PHIL 2640 Science and the Modern World (3 credits)—A philosophical examination of central ideas of modern science and technology.

PHIL 3010 History of Ancient Philosophy (3 credits)—Prerequisite(s): Two (2) PHIL courses at the 1000 - 2000 level, or permission of the instructor. The development of Western philosophy in the Greek world from the pre-Socratic philosophers to Plotinus. Major emphasis on Socrates, Plato, and Aristotle.

PHIL 3030 History of Modern Philosophy (3 credits)—Prerequisite(s): Two (2) PHIL courses at the 1000 - 2000 level or permission of the instructor. Introduction to
modern logic. This course explores the formal nature of language and reasoning. Propositional logic, predicate logic, and related topics.

PHIL 3061-63 Philosophy Colloquium (1-3 credits)—Prerequisite(s): Two (2) PHIL courses at the 1000 - 2000 level or permission of the instructor. Each semester some important issue, movement, or person of philosophical concern will be studied. May be repeated for up to nine (9) credits.

PHIL 3110 Philosophies of Feminism (3 credits)—Prerequisite(s): Two (2) PHIL courses at the 1000 - 2000 level or permission of the instructor. Examination of the major forms of feminist theory and also the role, functions and limitations of theory in addressing gender-related issues.

PHIL 3120 Existentialism (3 credits)—Prerequisite(s): Two (2) PHIL courses at the 1000 - 2000 level or permission of the instructor. Studies in 19th and 20th century existentialism with special emphasis upon its literary expression. Philosophers and writers include Kierkegaard, Ibsen, Dostoevsky, Buber, Marcel, Camus, and Sartre.

PHIL 3130 American Political Thought (3 credits)—Prerequisite(s): Two (2) PHIL courses at the 1000 - 2000 level or permission of the instructor. An examination of various themes in American political thought using the writings of contemporary thinkers, as well as sources drawn from the past. (Same as Political Science 3130.)

PHIL 3140 Environmental Philosophy (3 credits)—Prerequisite(s): Two (2) PHIL courses at the 1000 - 2000 level or permission of the instructor. Examines the philosophical issues—ethical, metaphysical and epistemological—involved in contemporary discussions of environmental issues. Widely differing approaches will be considered in order to better understand the conflicting interests and values involved in environmental decision-making.

PHIL 3150 Philosophy of Law (3 credits)—Prerequisite(s): Completion of one lower division PHIL course. An exploration of major themes in the Philosophy of Law: the nature of law, judicial reasoning, the moral limits of criminal and tort law, liberty, equality, and justice.

PHIL 3160 Native American Thinking (3 credits)—Prerequisite(s): At least one (1) PHIL course at the 2000 level or permission of the instructor. Drawing on the philosophical/religious perspectives of the Lakota, Hopi, Navaho, Nootka, Cherokee, and other native American tribes. This course will examine differing notions of time, space and motion, identity, and the holy.

PHIL 4017/5017 Ethical Theory (3 credits)—Prerequisite(s): At least one (1) PHIL course at the 3000 level or permission of the instructor. History of ethics from ancient Greece to the present. Special emphasis on the theories of Aristotle, Kant, and Mill.

PHIL 4018 Honors Thesis (3 - 6 credits)—Open to those in university honor programs only. A capstone experience serving as the culmination of an honors curriculum.

PHIL 4027/5027 Contemporary Philosophy (4 credits)—Prerequisite(s): At least one (1) of the following PHIL 3010 or PHIL 3030. 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)—Prerequisite(s): At least one (1) PHIL or RELI course at the 3000 level or permission of the instructor. An examination of classical and contemporary discussions of philosophical issues about religion, including the nature of God, of human beings, and of religious truth, and contemporary discussions of religion and atheism.

PHIL 4057/5057 Philosophy of Art (3 credits)—Prerequisite(s): At least one (1) PHIL course at the 3000 level or permission of the instructor. An introduction to philosophical issues that arise in our attempts to understand the creation, appreciation, and criticism of the various literary, plastic, and performing arts.

PHIL 4067/5067 Philosophy in Literature (3 credits)—Prerequisite(s): At least one (1) PHIL course at the 3000 level or permission of the instructor. An examination of philosophical issues as they appear in the world’s literature, including poetry, fiction, and essays.

PHIL 4075/5075 Existentialism and Modernity (3 credits)—Prerequisite(s): A minimum of two (2) PHIL courses at the 3000 level or permission of the instructor. An examination of the classical tradition in modern thought with emphasis on the philosophy of Max and his contemporary interpreters in Eastern Europe, Asia, and the Third World.

PHIL 4087/5087 Modern Political Philosophy (3 credits)—Prerequisite(s): At least one (1) PHIL course at the 3000 level or permission of the instructor. An examination of modern political thought with emphasis on the works of Plato and Aristotle, as well as those of later representatives of this tradition.

PHIL 4127/5127 Marxism (3 credits)—Prerequisite(s): At least one (1) PHIL course at the 3000 level or permission of the instructor. A study of the major works of Marx and his contemporary interpreters in Eastern Europe, Asia, and the Third World.

PHIL 4140 Topic in Political Philosophy (3 credits)—Prerequisite(s): A minimum of two (2) PHIL courses at the 3000 level or permission of the instructor. An examination of selected topics in political philosophy chosen by the professor. Course may be repeated, provided that the content of the course significantly varies from previous offerings.

PHIL 4900 Independent Studies in Philosophy (1-3 credits)—Prerequisite(s): At least one (1) PHIL course at the 3000 level or permission of the instructor.

PHIL 4917/5917 Philosophy of the Biological and Biomedical Sciences (3 credits)—Prerequisite(s): At least one (1) PHIL course at the 3000 level or permission of the instructor. Topics of philosophical and theoretical interest generated by the biological and biomedical sciences. Includes consideration of the broader social and cultural implications of biological and biomedical theory.

PHIL 4950 Senior Seminar (1-3 credits)—Prerequisite(s): Senior status or permission of the instructor. This course focuses on philosophical research and methods and is intended as a capstone course for majors. Students will learn to develop and apply research skills through pursuit of a supervised research project.

PHIL 4957/5957 Special Topics in Philosophy (1-6 credits)—Prerequisite(s): At least one (1) PHIL course at the 3000 level or permission of the instructor.

PHYS 1030 Introduction to Physics Survey (4 credits)—Presents an interdisciplinary approach to the physical sciences with a concentration in physics. The role of science to the daily activities of an educated person. Three credits lecture, one credit demonstration/discussion each week. Open to students who have any previous college credit in any of the physical sciences.

PHYS 2010-20 General Physics I, II- Noncalculus (3,3 credits)—Prerequisite(s): Mathematics 1720 or equivalent. A survey of the topics in classical physics intended primarily for students in pre-professional curricula and majors in various engineering technology concentrations. Topics include mechanics, thermodynamics, waves, electricity and magnetism, and geometrical optics. Good working knowledge of algebra and trigonometry is assumed. Heavy emphasis on solutions to numerical problems. PHYS 2010/20 should be taken in sequence. Many curricula require a laboratory course in physics. Students in these curricula must also take PHYS 2011/21. Three (3) one hour lectures each week.
PHYS 2011-21 General Physics Laboratory - Noncalculus I, II (1,1 credit)—Experiments dealing with the basic laws of physics, designed to reinforce and supplement concepts learned in general physics. One (2) two credit lab each week.

PHYS 2110-20 Technical Physics I, II - Calculus Based (5 credits ea.)—Prerequisite(s): One semester of calculus. A survey of physics for students majoring in technical fields, such as physics, chemistry, engineering, etc. Also intended for pre-professional students (pre-med, pre-dentistry, etc.) who desire a stronger preparation for professional school. Three (1) one credit lecture and (3) three credits of laboratory/recitation each week.

PHYS 3010 Mechanics (4 credits)—Prerequisite(s): PHYS 2110/20. Statics and dynamics of particles and systems of particle. An introduction to Lagrangian and Hamiltonian formulations of Newtonian mechanics. Three (1) one credit lectures and one (2) two credit recitation session each week.

PHYS 3110 Thermodynamics (3 credits)—Prerequisite(s): PHYS 2110/20. Classical approach to the first and second laws of the thermodynamics. Maxwell's relations and selected applications. Three (1) one credit lectures each week.

PHYS 3210 Optics (4 credits)—Prerequisite(s): PHYS 2110/20. Geometrical optics including reflection, refraction, dispersion, thin and thick lenses, optical instruments. Physical optics including electromagnetic character of light, interference, diffraction, polarization, and related topics. Three (1) one credit lectures and one (2) two credit lab sessions, or equivalent, each week.

PHYS 3310 Electrical Measurements (4 credits)—Prerequisite(s): PHYS 2110/20. AC/DC circuit analysis, basic electrical measurements, fundamentals of electronic circuits, with applications to devices of special interest. Two (1) one credit lectures and two (2) two-credit lab sessions, or equivalent, each week.

PHYS 3510 Introduction to Biophysics (3 credits)—Prerequisite(s): PHYS 2110/20 or PHYS 2110/20. Underlying principles of physics used to explore and explain biological systems. Techniques discussed include energetics, X-ray analysis, absorption spectroscopy, etc., applied to cellular processes. Three (1) one credit lectures or equivalent each week.

PHYS 3610 Introduction to Atomic and Nuclear Physics (3 credits)—Prerequisite(s): PHYS 2110/20. A semiquantitative introduction to the physics of the atom and its nucleus: constituent parts of atoms, atomic transmutation, nuclear fission and fusion, and related topics. Three (1) one credit lectures each week.

PHYS 3710 Electricity and Magnetism (4 credits)—Prerequisite(s): PHYS 2110/20. An intermediate-level course in electromagnetism: electrostatics, dielectrics, magnetic materials and effects, development of Maxwell's equations. Three (1) one credit lectures and one (2) two-credit recitations/laboratory session each week.

PHYS 4007/5007 Computational Physics (3 credits)—Prerequisite(s): PHYS 2110/20 or MATH 3200. This course is designed to cover techniques used in modeling physical systems numerically. Topics include data fitting, error analysis, numerical differentiation and integration, techniques to solve systems of linear equations, ODEs, and PDEs, oscillatory motion and Fourier analysis, and random systems. Prior computer programming experience is desirable, but not mandatory.

PHYS 4018 Honors Thesis (3-6 credits)—Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

PHYS 4117/5117 Kinetic and Statistical Physics (4 credits)—Prerequisite(s): PHYS 3110 and senior standing or permission of instructor. Kinetic theory of an ideal gas, equations of state, distribution of molecular velocities, principles of statistical mechanics, transport phenomena, applications of Boltzmann, Fermi-Dirac, and Bose-Einstein statistics. Three (1) one credit lectures and one (2) two credit recitation session each week.

PHYS 4617/5617 Quantum Physics (4 credits)—Prerequisite(s): PHYS 3610 and senior standing or permission of the instructor. An introduction to quantum theory and nonrelativistic quantum mechanics. Historical development of ideas which led to present-day theories, Schrödinger's equation and applications, approximation methods, matrix methods, and related topics. Three (1) one credit lectures and one (2) two credit recitation session each week.

PHYS 4717/5717 Electromagnetic Theory (4 credits)—Prerequisite(s): PHYS 3710. Principles of electromagnetic theory, Maxwell's equations, selected applications, and related topics. Three (1) one credit lectures and one (2) two credit recitation session each week.

PHYS 4850 Seminar in Physics (1 credit)—A weekly two-credit session devoted to current research and/or teaching activities, and other topics of departmental interest. Attendance expected of physics majors. May be taken for credit twice provided student is active contributor to programs.

PHYS 4860 Special Topics in Physics (1-3 credits)—Study of a topic of interest to faculty and undergraduate students. May be repeated for credit (up to a maximum of four credits) provided subject matter is not duplicated.

PHYS 4900 Independent Studies (1-3 credits)—Prerequisite(s): Prior acceptance by a faculty research advisor. Independent investigation of a problem of interest to the student, under the guidance of a faculty research advisor. May be repeated (up to a maximum of four credits) provided subject matter is not duplicated.

Physical Therapy

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

PHYT 2000 Introduction to Physical Therapy (2 credits)—This course will provide the student interested in physical therapy with an overview of the profession and the opportunities, problems, and realities thereof. Students will learn how their college experiences transfer to the working world and will engage in self-assessment and reflection designed to help the student determine if physical therapy is a good career match.

Professional Roles/Mental Health Nursing

PMNU

PMNU 1010 Orientation to College Life and Nursing as a Major (1 credit)—This course is designed to help the beginning student learn about nursing as a career choice. Journaling and other learning activities will help the student develop skills which lead to positive experiences and success at the university. Elective.

PMNU 1015 Survey of Health Care Professionals (2 credits)—This course is an overview of the health care team. Interdisciplinary guest speakers and/or health care facility tours included. Students will have the opportunity to interact directly with a variety of health care professionals. Basic background information of interest to all health-related majors or those considering a major in health disciplines is provided. Elective.

PMNU 2020 Introduction to Professional Nursing (3 credits)—Prerequisite(s): Admission to the nursing major or permission of the department chair. Prerequisite(s) or Corequisite(s): PMNU 2310. This course is designed to introduce the characteristics of the nursing profession, health care delivery systems, nursing history, process and roles, and to introduce theory, practice, and research concepts. The nursing process and principles that guide practice are explicated.
PMNU 2310 Communication for Health Professionals (2 credits)—This course is designed to introduce health professions students to the characteristics of effective communication and to develop basic competencies in communication with clients and colleagues in multidisciplinary settings.

PMNU 3070 Care of Persons with Behavioral Health Disorders (2 credits)—Prerequisite(s): Completion of first semester junior-level nursing courses or permission of department chair. Course content focuses on the behavioral health care of persons across the life span, emphasizing effective communication, assessment and analysis, planning of nursing strategies, nursing diagnoses, and evaluating outcomes in this client population.

PMNU 3120 Professional Community-Based Nursing (4 credits)—Prerequisite(s): A dmission to the RN-BSN program. 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)—Prerequisite(s): A coope alit in the College of Nursi g H omes in D iscipline Program. An individualized course in which the student collaborates with a mentor to create a program of learning that supports academic and professional goals. May be taken twice for credit.

PMNU 4017/5017 Health Care Informatics (3 credits)—Prerequisite(s): Permission of the instructor. Current and potential applications of the computer to health care are discussed. These same applications are analyzed for their impact on the client, health care professional, and health care delivery system. Requires access to a computer with a browser that facilitates access to the World Wide Web and a university or private sector electronic mail account.

PMNU/ALNU/FCNU 4018 Nursing Honors Thesis (3 or 6 credits)—Prerequisite(s): A dmission to the College of N ursi ng H omes in D iscipline Program, H omes M entorship in N ursi ng, or permission of i nstructor. An independent course for the senior-level honors student to complete a thesis suitable for presentation. The written paper will demonstrate scholarship, basic understanding of the research process, and relevance to professional trends and issues.

PMNU 4027/5027 Health Care Law (3 credits)—Prerequisite(s): Junior level or higher. This course focuses on the influence of state and federal laws and ethics on patients, practitioners and practice settings.

PMNU 4030 Nursing Theory and Research (3 credits)—Prerequisite(s): A L N U 3021, or A L N U 3170 or the equivalent, and M A T H 1530. This course introduces the research process, the evolution of nursing theory, and the relationship between research, theory, and nursing practice.

PMNU 4060 Transition to Professional Practice (3 credits)—Prerequisite(s): Completion of first semester, senior courses. This capstone course concentrates on theories, research and issues related to leadership, change, and management of nursing practice within the broader context of health care delivery.

PMNU 4061 Senior Practicum (8 credits)—Prerequisite(s) or Corequisite(s): PMNU 4060. This capstone clinical course is focused on the preparation of the student for transition to professional nursing practice.

PMNU 4062 R.N. Practicum (8 credits)—Prerequisite(s) or Corequisite(s): PMNU 4060 and active license as a registered nurse. This capstone course is focused on the education of the registered nurse for transition to professional nursing practice.

PMNU 4070 Community Behavioral Health Seminar (1 credit)—Prerequisite(s): FCNU 3051. Course content focuses on the behavioral health care of persons across the lifespan as clients within a family and as members of the community.

PMNU 4900 Nursing Independent Study (1-3 credits)

PMNU 4957/5957 Special Topics in Nursing (1-6 credits)—Prerequisite(s): Permission of the instructor. Special topics related to nursing and health care will be presented. Course may include didactic and experiential methods of instruction. May be repeated for credit if course content is significantly different or advanced.

PMNU/ALNU/FCNU 4989 Cooperative Education in Nursing (3 credits)—Prerequisite(s): Permission of department chair. This course, with 1-3 credits as arranged, allows the student to spend time in a career-related work experience. Formal agreements are established by the university and the employer to help students accomplish specific educational outcomes. Course is offered only on a Pass/Fail basis. E elective

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

PMNU 5000 Conceptual Systems for Advanced................................. (2 credits) Nursing Practice
PMNU 5001 Nursing Research and Design..................................... (3 credits)
PMNU 5002 Policy and Ethics in Advanced Nursing Practice .............. (3 credits)
PMNU 5003 Theories and Concepts in .......................................... (1 credit) Professional Role Development Seminar
PMNU 5004 Seminar in Professional Roles ..................................... (1 credit)
PMNU 5008 Alternative Health Practices, Theories, & Systems ...... (2 credits)
PMNU 5050 Health Care Accounting and Finance ........................... (3 credits)
PMNU 5110/6110 Interdisciplinary Approaches ................................ (3 credits)
PMNU 5303 Psychopharmacology .................................................. (3 credits)
PMNU 5401 Rural Health Issues ..................................................... (3 credits)
PMNU 5402 Behavioral Health Concepts for Adults ......................... (3 credits)
PMNU 5403 Behavioral Health Concepts for Adults: Practicum ......... (3 credits)
PMNU 5404 Advanced Psychiatric Nursing Care I ......................... (3 credits)
PMNU 5405 Advanced Psychiatric Nursing Care I: Practicum .......... (3 credits)
PMNU 5406 Advanced Psychiatric Nursing Care II ................. (2 credits)
PMNU 5505 Managing Health Care Organizations ......................... (3 credits)
PMNU 5510 Organizational Theory and Nursing Administration ...... (3 credits)
PMNU 5520 Fiscal Management in Nursing Administration ............ (3 credits)
PMNU 5525 Health Services Delivery and Organization ................. (3 credits)
PMNU 5550 Human Resource Management in .............................. (3 credits)
PMNU 5560 Nursing Administration Practicum I ......................... (2 credits)
PMNU 5565 Nursing Administration Practicum II ....................... (2 credits)
PMNU 5590 Strategic Planning for Health Care ............................... (3 credits)
PMNU 5900 Independent Study ................................................... (1-3 credits)
PMNU 5960 Thesis .................................................................. (1-6 credits)
PMNU 5990 Readings and Research .............................................. (1-3 credits)
PMNU 6000 Theoretical Foundations of Nursing Practice ............... (3 credits)
PMNU 6002 Health Policy Leadership ............................................. (3 credits)
PMNU 6020 Advanced Data Analysis ............................................. (4 credits)
PMNU 6040 Qualitative Methods in Nursing Research ................. (3 credits)
PMNU 6100 Philosophy of Nursing Practice .................................. (3 credits)
PMNU 6110 Interdisciplinary Approaches to Bioethical Issues ...... (3 credits)
PMNU 6960 Doctoral Dissertation .................................................. (1-12 credits)
PMNU 6990 Readings and Research .............................................. (1-3 credits)

Political Science

PSCI

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

PSCI 1110 Political Life (3 credits)—An encounter through reading, writing, discussion, and other class experiences with the phenomena of political life. Students will be encouraged to confront the orientations, expectations, and action patterns characteristic of situations where human beings attempt to resolve the tension between human needs and social facts.

PSCI 1120 Introduction to American Government (3 credits)—A survey of American government focusing on the United States Constitution, American political culture, political institutions, and policy processes.

PSCI 2210 Introduction to Comparative Politics (3 credits)—An introduction to the comparative study of politics, employing a conceptual, or thematic, approach. The politics of selected countries will be examined, focusing on major features such as governmental institutions, political culture and public policy.
PSCI 2220 Introduction to World Politics (3 credits)—An introduction to the major concepts and themes in the study of international politics designed to provide students with analytical tools for understanding problems and issues in international security, organization and political economy.

PSCI 2610 Introduction to Public Administration (3 credits)—Introduction to contemporary topics in public administration: defining the field, operations of the federal administration, theories of public management, budgeting and staffing. (AP)

PSCI 2989 Cooperative Education (1-3 credits)

PSCI 3000 Peace, Security, and Development (3 credits)—A global political analysis of issues and events which affect the peace, security, and development of human beings in the world community. (IR)

PSCI 3010 Chinese Politics (3 credits)—An introduction to the politics of China and the role of politics in Chinese history, culture and economy. (CP)

PSCI 3030 American Political Parties (3 credits)—A study of the political parties in the United States. The course examines the roles of political parties in elections and in the government, the coalitions and factions that make up the parties, the sources of party division and conflict, and the balance of power between competing political parties. (AP)

PSCI 3050 Interest Groups in American Politics (3 credits)—An examination of the role and influence of interest groups in American politics and government, with special attention to corporate business and organized labor. This course considers the implications of interest group politics for the distribution of power and for the shape of public policy in the United States. (AP)

PSCI 3060 Southern Politics (3 credits)—An introduction to regional political activity and its impact on the national political system as illustrated by the eleven states which are comprised of the Southeast. An in-depth study of the distinctive political system of the region, and the effects of movements such as secession and one-party control, black voting, and the changes in the socioeconomic composition of the area. (AP)

PSCI 3070 Politics and Film (3 credits)—An investigation of motion pictures as a mass medium. It is concerned with the political images, ideas and stories in the movies, as well as the politics surrounding movie production and distribution. (AP)

PSCI 3130 American Political Thought (3 credits)—An examination of various themes in American political thought using the writings of contemporary thinkers, as well as sources drawn from the past. (PT)

PSCI 3200 Law and Judicial Process (3 credits)—An overview of the political and philosophical principles underlying the American legal system. Strongly recommended prior to further work in law and the judicial process. (PL)

PSCI 3205 Constitution and Civil Liberties (3 credits)—A focus upon the First, Second, Fifth, Ninth, and Fourteenth Amendments as these have been utilized to expand and protect personal rights and liberties, including participation in the political process. The case method will be used. (PL) (Formerly PSCI 2500)

PSCI 3210 Due Process and Adjudication (3 credits)—A study of the liberties guaranteed in the Fourth, Fifth, Sixth, Eighth, and Fourteenth Amendments as developed and interpreted by court decisions. The case method will be used. (PL)

PSCI 3220 The Supreme Court (3 credits)—An analysis of the role of the Supreme Court of the United States in the governmental process, its role regarding the separation of powers and federalism, public policy, and limits on judicial power. The case method is sometimes used. (PL)

PSCI 3230 American Constitutional Law (3 credits)—An analysis of the manner in which the Constitution, including the Bill of Rights, has been expanded and developed to meet changing conditions within the polity by the judicial decision-making process. The case method will be used. (PL) (Formerly PSCI 4217)

PSCI 3310 International Relations (3 credits)—An introduction to the study of the relations between states, politics, diplomacy, international law, and organization. An analysis of the theory and practice of international relations. (IR)

PSCI 3710 State and Local Government (3 credits)—The structure and functions of the 50 state governments and local government in the United States and the role of these governments in the American federal system Special references to government in Tennessee. (AP)

PSCI 3800 European Politics (3 credits)—A survey of the governmental institutions, the political processes, and the cultures of European states. (CP)

PSCI 3830 Government and Politics of Latin America (3 credits)—Broadly concerned with basic political, cultural, and economic characteristics of various Latin American political systems. (CP)

PSCI 3870 Government and Politics of South Asia (3 credits)—An examination of the government, political organizations, party structure, politics, and culture of the subcontinent. (CP)

PSCI 4018 Honors Thesis (3 - 6 credits)—Open to those in university honor programs only. A capstone experience serving as the culmination of an honors curriculum.

PSCI 4020 Urban Politics (3 credits)—A study of the politics of urban and metropolitan government, including: reformism, boodlism, political clientelages, the role of blacks and other groups in the local political system, and procedures and problems related to local policy-making. (AP)

PSCI 4050 The Presidency (3 credits)—A study of the functions and powers of the modern presidency, with emphasis on the role of the president in public policy. (AP)

PSCI 4100 Classical Political Philosophy (3 credits)—An examination of the classical tradition in political thought with emphasis on reading the works of Plato and Aristotle, as well as those of later representatives of this tradition. (PT)

PSCI 4120 Modern Political Philosophy (3 credits)—An examination of modern political thought with emphasis on the Social Contract theories of Hobbes, Locke, and Rousseau and the utilitarianism of Bentham, Mill, and others. (PT)

PSCI 4160 The Idea of the City (3 credits)—An examination of the meaning and significance the city has had in human history and a consideration of its potential as a meaningful social and political force of the future. (PT)

PSCI 4300 International Politics (3 credits)—An analysis of the major forces and trends of the political relationships between states, the historical development of international politics, the pattern of contemporary international politics, and the future of international politics. Special problems and prospects for the United States. (IR)

PSCI 4330 American Foreign Policy (3 credits)—An analysis of the development of American foreign policies and practices with emphasis on recent development and current trends. (IR)

PSCI 4450 Appalachian Politics (3 credits)—An examination of the political, economic, and social structures of power characteristic of the Appalachian region, and the relationship between these and the larger American context. Pre-summer only. (AP)

PSCI 4730 American Public Policy (3 credits)—A study of the economic and social policies of American national government. The course analyzes fiscal, monetary, social welfare, trade, and labor policies, and examines the major debates over public policy, including whether and how it can promote economic prosperity and social justice. (AP)

PSCI 4820 Politics of Development and Change (3 credits)—An examination of various notions of political development, modernization and change, with emphasis on those processes within countries of the Third World. (CP)

PSCI 4900 Independent Study and Research (1-3 credits)—By permission of the department only.
PSYC 1310 Introduction to Psychology (3 credits)—An introduction to the basic concepts, principles, and theories of the science of psychology. Topics included are biological and developmental processes, perception and awareness, learning and thinking, motivation and emotion, personality and individuality, adjustment and mental health, and social behavior.

PSYC 2000 Social Psychology (3 credits)—Prerequisite(s): PSYC 1310. The study of research methodologies, empirical findings, and theoretical concerns in the area of interpersonal behavior.

PSYC 2500 Behavior Modification (3 credits)—Prerequisite(s): PSYC 1310. A study of basic and applied topics in learning, particularly as pertaining to the modification of human behavior. Topics will include conditioning, reinforcement, extinction, generalization, discrimination, verbal learning, and modeling.

PSYC 2800 Child Psychological Science (3 credits)—Prerequisite(s): PSYC 1310. The course surveys the field of child psychology as a basic science, with a focus on individual differences in children’s psychological development. Students interested in the scientific study of children in broader contexts (e.g., schools, families, communities) should consider enrolling in HDAL 2320.

PSYC 2900 Motivation and Emotion (3 credits)—Prerequisite(s): PSYC 1310. Beginning with an overview of the historical development of research on motivation and emotion, this course will examine the theoretical, physiological, cognitive and social-cultural perspectives on the fundamental question in the field of psychology: Why do individuals behave the way they do?

PSYC 3200, 3201 Principles of Psychological Research (4.0 credits)—Prerequisite(s): PSYC 1310, PSYC 2311/12, and PSYC 2810. Basic concepts, methodologies, statistical procedures, issues, and elements of scientific writing in psychological research. Four (4) credits of lecture and lab per week.

PSYC 3100 Elementary Statistics (3 credits)—Prerequisite(s): PSYC 1310 and MATH 1530. An introduction to descriptive and inferential statistics including measurement, frequency distributions, graphing, percentiles, measures of central tendency and dispersion, normal distribution, correlation, probability, sampling, t-test, and analysis of variance.

PSYC 3300 Psychology of Women (3 credits)—Prerequisite(s): PSYC 1310. In this course, we will explore and discuss important issues in the field of psychology as it relates to women and gender, apply our discoveries to real world situations, and critically evaluate the research being done in the psychology of women.

PSYC 3330 Applied Psychology (3 credits)—Prerequisite(s): PSYC 1310. A survey of the contributions of psychology to areas such as mental and physical health, law, education, industry, and consumer affairs.

PSYC 3340 Introduction to I/O Psychology (3 credits)—Prerequisite(s): PSYC 1310. The application of psychological principles to business and industry in areas such as testing, personnel selection, personnel appraisal, leadership, and motivation.
PSYC 4317/5317 Perceptior (3 credits) — Prerequisite(s): PSYC 1310 and 2311/12. A survey of research on vision, color perception, hearing, pattern perception, depth perception, smell, taste, and developmental perception accompanied by slide and video presentations. A brief review of theories of perception is also provided.

PSYC 4320 Abnormal Psychology (3 credits) — Prerequisite(s): PSYC 1310 or permission of instructor. A critical review of personality development and disintegration and the concepts underlying diagnosis, therapy, and institutional care.

PSYC 4321 Writing in Abnormal Psychology (1 credit) — Prerequisite(s): PSYC 1310 or permission of instructor; Corequisite(s): PSYC 4320. This course serves as the primary means to promote a writing intensive experience within the topical area of abnormal psychology. Must be taken concurrently by all students enrolled in PSYC 4320.

PSYC 4407/5507 Psychopharmacology (3 credits) — Prerequisite(s): PSYC 1310. This course is designed to introduce the student to the field of psychopharmacology, placing particular emphasis on drug abuse, drug treatment, and biochemical actions of drugs in the brain.

PSYC 4607/5607 Child Psychopathology (3 credits) — Prerequisite(s): PSYC 1310. The purpose of the course is to acquaint students with aspects of diagnosis, measurement, and treatment of child psychopathology.

PSYC 4707-17 Advanced Behavioral Neuroscience (4 credits) — Prerequisite(s): PSYC 3030/31 and general biology. A review of the physiological, anatomical, and chemical aspects of the nervous system and their relation to a variety of functions: sensory processes, perception, motivation, learning, emotion, and memory. Four (4) credit credits of lecture and labs per week.

PSYC 4807/5807 Forensic Psychology (3 credits) — Prerequisite(s): PSYC 1310. This course is designed to introduce students to issues pertaining to the interface between psychology and law, with an emphasis on issues of current practice and ethical issues in forensic psychology.

PSYC 4018 Honors Thesis (3-6 credits) — Open to those in university honor programs only. A capstone experience serving as the culmination of an honors curriculum.

PSYC 4817/5817 Introduction to Psychological Testing (3 credits) — Prerequisite(s): PSYC 1310, PSYC 2311/12, and PSYC 2810. Refer to HDAL 4817.

PSYC 4900 Independent Study in Psychology (1-3 credits) — An independent study of a problem selected in consultation with a member of the psychology faculty.

PSYC 4957/5957 Special Topics in Psychology (1-6 credits) — Permission of the instructor.

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

Graduate Course Listing For Descriptions and Prerequisite(s) see the Graduate Catalog

PSYC 5210 Statistical Methods .................................................. (3 credits)
PSYC 5220 Personality Theory .................................................. (3 credits)
PSYC 5230 Advanced Developmental Psychology—HDAL 5230.. (3 credits)
PSYC 5410 Correlation and Multiple Regression ....................... (3 credits)
PSYC 5530 Sport Psychology .................................................... (3 credits)
PSYC 5610 Topical Seminar in Developmental Psychology .......... (3 credits)
PSYC 5620 Topical Seminar in Social Psychology ....................... (3 credits)
PSYC 5630 Topical Seminar in Cognitive Psychology ................. (3 credits)
PSYC 5640 Topical Seminar in Behavioral Neuroscience ............ (3 credits)
PSYC 5650 Topical Seminar in Applied Psychology ................... (3 credits)
PSYC 5660 Topical Seminar in Clinical Psychology .................... (3 credits)
PSYC 5800 Teaching in the Psychological Sciences .................... (3 credits)
PSYC 5825 Psychopathology ...................................................(3 credits)
PSYC 5830 Individual Mental Testing—HDAL 5830 ................. (4 credits)
PSYC 5850 Personality Assessment ........................................... (3 credits)
PSYC 5870 Introduction to Clinical Psychology ....................... (3 credits)
PSYC 5900 Independent Study in Psychology ............................ (1-3 credits)
PSYC 5910 Practicum in Mental Health: Assessment ................. (3 credits)
PSYC 5911 Practicum in Mental Health: Therapy ....................... (3 credits)
PSYC 5950 Methods of Psychological Research ....................... (3 credits)
PSYC 5960 Thesis .............................................................. (1-3 credits)
PSYC 5990 Readings and Research ......................................... (1-3 credits)
PSYC 5989-99 Cooperative Education ................................. (variable)

Public Health

PSBH 1010 Lifetime Behaviors for Healthy Living (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.

PSBH 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.

PSBH 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.

PSBH 2031 Cardiopulmonary Resuscitation (1 credit) — Prepares the student to provide basic life support for respiratory and cardiac emergencies for adults, children, and infants.

PSBH 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 issues associated with these developments.

PSBH 2120 School Health Education K-12 (3 credits) — Prerequisite(s): PUBH 1010. Studies the school health program: health services, health instruction, and healthful school environment for grades K-12. Emphasis is given to curriculum and various school health issues.

PSBH 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.

PSBH 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.

PSBH 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.

PSBH 3080 Principles of Epidemiology (3 credits) — Prerequisite(s): 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.

PSBH 3120 Principles and Practices of Public Health Education I (4 credits) — Prerequisite(s) or Corequisite(s): PUBH 1010 and PUBH 3000. Develops skills in the application of principles of learning, community survey and data analysis, theoretical, and applied approaches to program planning, implementation and evaluation, research design, professional development, and ethics.

PSBH 3130 Principles and Methods of Health Education (3 credits) — Prerequisite(s): PUBH 3120 or permission of instructor. Develops skills in the design and use of educational materials, materials, and equipment for health education. Develops skills in group work and techniques, motivation, and leadership.

PSBH 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 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 materials, methods, and counseling to provide specialized education for the patient in the clinical environment.

PUBH 4030 Community Health (3 credits)—Prerequisite(s): PUBH 1010 or ENVH 1800, or permission of instructor. Studies and analyzes community health problems and their causes. 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(s): PUBH 4030 or permission of instructor. Considers the principles and practices of community organization for health education and the role of the health educator in the community. Motivation of lay and professional individuals and groups to develop and implement community plans is studied.

PUBH 4220 Family Health and Human Sexuality (2 credits)—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)—This course explores death, dying, and bereavement and is focused on enhancing personal and health professional roles related to the experience of death and dying. Course topics address the medical, legal, social, cultural, and religious view of death in America and other cultures. Through this process, students are able to: a) recognize and deal with emotions and behaviors related to the experience of death and dying; b) better understand and accept death as a natural process of life, and; c) be more prepared to deal effectively with death and dying.

PUBH/SPCH 4377/5377 Health Communication (3 credits)—Prerequisite(s): Permission of the instructor. A study of the interpersonal, group, organizational, and public communication processes that shape beliefs, decisions and behavior regarding health, sickness, and health care. The course examines attitudes and actions of 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 4457/5457 Emerging Technologies for the Health Professions (3 credits)—Prepares health professionals for the ever-changing technological workplace demands. Fuses new technologies with practical applications. Students are taught skills to present and manipulate information in the electronic age and reduce repeated task/events into time-saving solutions. Health education and training strategies are combined with emerging digital tools to develop training components.

PUBH 4500 Pathophysiology of Disease (3 credits)—A discussion of common diseases with respect to etiologic agents, physiology, pathological, and emotional changes, management by chemical and physical agents, psychotherapy, and patient education.

PUBH 4607/5607 Gerontology and Health (3 credits)—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(s): Permission of department. Work experience in hospitals, official, and voluntary agencies, and other community groups and organizations. The student furnishes necessary living and traveling expenses. One credit hour equivalent to 45 contact hours.

PUBH 4907/5907 Independent Study in Public Health (1-3 credits)—Designed for students desiring an in-depth study of health problems in a special area of need.

PUBH 4927/5927 Cultural Competence and Spirituality in Health Care (3 credits)—Health care effectiveness increases when the spiritual and cultural traditions of the patient are addressed. In this class, students will receive an orientation to the practices and concerns of diverse cultural and religious groups.

PUBH 4937/5937 Stress Management (3 credits)—This course is designed to acquaint the student with the literature and research on stress and provides a holistic introduction into the theory and practice of stress management that encompasses physical, emotional, psychological, and spiritual dimensions of stress responses. The course uses an experiential approach to applying coping strategies and relaxation techniques covered in class by requiring students to develop and implement a personal stress management project.

PUBH 4957/5957 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 Prerequisite(s) see the Graduate Catalog.

Curriculum is being revised contact the MPH Coordinator.

PUBH 5020 Philosophy of Public Health .................................................. (1 credit)
PUBH 5110 Assessment of Individual and Community Health .......... (3 credits)
PUBH 5120 Techniques of Research and Evaluation ......................... (3 credits)
PUBH 5130 Planning & Implementation of Community Health Prog. (3 credits)
PUBH 5150 Consulting in Organizations and Communities ............... (3 credits)
PUBH 5200 Social and Behavioral Foundations................................. (3 credits)
PUBH 5210 Professional Development for Public Health Practice .... (2 credits)
PUBH 5310 Principles of Biostatistics ..................................................... (3 credits)
PUBH 5340 Health Appraisal Techniques .............................................. (3 credits)
PUBH 5400 Principles of Epidemiology ................................................. (3 credits)
PUBH 5401 Rural Health Issues ............................................................. (3 credits)
PUBH 5500 Administration of Health Programs ......................... (3 credits)
PUBH 5505 Managing Health Care Organizations ....................... (3 credits)
PUBH 5510 Long Term Care Administration .................................. (3 credits)
PUBH 5525 Health Services Organization and Delivery ................. (3 credits)
PUBH 5535 Health Policy, Politics and Analysis .............................. (3 credits)
PUBH 5550 Human Resources Mgmt in Health Organizations ...... (3 credits)
PUBH 5560 Research Seminar ............................................................... (3 credits)
PUBH 5570 Management of Medicare .................................................. (3 credits)
PUBH 5590 Strategic Planning for Health Care ......................... (3 credits)
PUBH 5595 Industrial Health Education .............................................. (3 credits)
PUBH 5620 Hazards in the Workplace ............................................... (6 credits)
PUBH 5650 Field Experience ................................................................. (3 credits)
PUBH 5900 Grant and Proposal Development ............................... (3 credits)
PUBH 5950 Research Seminar ............................................................... (1-3 credits)
PUBH 5960 Thesis .............................................................................. (1-3 credits)
PUBH 5980 Cooperative Education .................................................. (1-3 credits)
PUBH 5990 Readings and Research ..................................................... (1-3 credits)
Automatic summarization: East Tennessee State University

Public Relations

PUBR 2700 Introduction to Public Relations (3 credits)—Study of fundamental principles and techniques applicable in the field of public relations. Information is provided on various types of career opportunities.

PUBR 2770 Writing for Public Relations (3 credits)—Prerequisite(s): A grade of ‘C’ or better in JOUR 2120. Instruction in fundamentals of reporting, feature writing, broadcast news writing, and specialized writing done regularly by public relations practitioners. Assignments include work for public relations professionals.

PUBR 3770 Public Relations Publications (3 credits)—Fundamentals of typography, printing, and computer design applied to the production of publications and web sites common in the public relations field.

PUBR 4080 Public Relations Internship (3 credits)—Prerequisite(s): Permission of instructor. Supervised professional experience in public relations.

PUBR 4301 Topics in Public Relations (1-6 credits)

PUBR 4730 Public Relations Practices (3 credits)—Prerequisite(s): PUBR 2700, PUBR 2770, PUBR 3770, RTVF 3602. Application of public relations principles and techniques to business and industry, government, health care facilities, institutions and organizations, trades and professions. Emphasis on case studies and projects completed for on- and off-campus groups and organizations.

PUBR 4900/5900 Independent Studies in Public Relations (1-3 credits)

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

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<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>PUBR 5301</td>
<td>Topics in Public Relations</td>
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Radiologic Technology

RADT 3000 Image Production and Evaluation (4 credits)—Prerequisite(s): Program admission; Corequisite(s): RADT 3010, RADT 3020, RA DT 3021, and RADT 3040. This course presents an in-depth discussion of image formation to include photographic and geometric factors. Discussion includes prime factor manipulates, calculations, and derivatives, latent/manifest image formation, radiographic interactions, and pathological considerations. All factors concerning image production will be interrelated. Extensive correlation, practical/laboratory applications, and written assignments are required.

RADT 3010 Radiation Physics (4 credits)—Prerequisite(s): Program admission; Corequisite(s): RADT 3000, RADT 3020, RADT 3021, and RA DT 3040. An in-depth discussion of atomic theory, magnetism and electromagnetism, electrostatics, hydrodynamics, radiation production and interaction, and energy transformation will occur. Radiographic tube construction, operation, and electronic schematics will be presented and interrelated with the associated medical utilization and characteristics.

RADT 3020 Radiographic Procedures I (3 credits)—Prerequisite(s): Program admission; Corequisite(s): RADT 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 analysing radiographic evaluation and techniques will occur.

RADT 3021 Radiography Procedures I Lab (1 credit)—Prerequisite(s): Program admission; Corequisite(s): RA DT 3020. Under direct supervision, the student will observe, demonstrate, and produce diagnostic, quality radiographs of the thoracic-abdominal cavities, and the upper/lower extremities.

RADT 3030 Radiographic Procedures II (3 credits)—Prerequisite(s): Program admission; Corequisite(s): RADT 3031. This course is a continuation and integration of RADT 3020 and RADT 3021 that also includes an in-depth discussion of procedures of the axial skeleton, the digestive, neural, respiratory, biliary, and genitourinary body systems. Anatomy (inclusive of cross-sectional), patient care, pathology, and medical terminology will be correlated with procedures. An accompanying laboratory component will occur.

RADT 3031 Radiographic Procedures II Lab (1 credit)—Prerequisite(s): Program admission; Corequisite(s): RADT 3030. Under direct supervision, the student will observe, demonstrate, and produce diagnostic, quality radiographs of the axial skeleton, the digestive, neural, respiratory, biliary, and genitourinary body systems. Anatomy (inclusive of cross-sectional), patient care, pathology, and medical terminology will be correlated with procedures presented in RADT 3030.

RADT 3040 Clinical Education I (2 credits)—Prerequisite(s): Program admission. This competency-based clinical experience will introduce the radiography student to learning opportunities in ancillary areas and current imaging technologies available at clinical agencies. Student participation in patient assessment and care, and observing and performing medical imaging procedures as presented in RADT 3020/31 under direct supervision will occur. Students will demonstrate cognitive, affective, and psychomotor skills with a focus on outcomes assessment.

RADT 3050 Clinical Education II (2 credits)—Prerequisite(s): Program admission and RA DT 3040; Corequisite(s): RADT 3030 and RADT 3031. A competency-based clinical experience that intensifies the cognitive, affective, and psychomotor skill level of students in the performance of imaging procedures of the axial and appendicular skeleton. Students continue to focus on outcomes assessment and to master procedures from RADT 3040.

RADT 3060 Radiographic Imaging and Quality Assessment (3 credits)—Prerequisite(s): 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 (4 credits)—Prerequisite(s): 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 (6 credits)—Prerequisite(s): Program admission and RA DT 3050. A competency-based clinical practicum that requires higher cognitive, affective, and psychomotor skill levels. This clinical experience provides learning opportunities in fluoroscopy of the physiological body systems, cystography, advanced extremity, mobile, trauma, and surgical radiographic procedures. Mastery of knowledge from previous clinical practicums with a focus on outcomes assessment will occur. All classes occur at the clinical agencies.

RADT 4010 Clinical Education IV (3 credits)—Prerequisite(s): RA DT 4000. This clinical experience will occur at a different clinical agency thereby diversifying the clinical applications of cognitive, affective, and psychomotor skills. Students will participate in diagnostic imaging, specialty areas, and interventional radiography to become a true part of the health care team. Students will complete minor, major, and graduate competencies (advanced radiographic/fluoroscopic procedures) emphasizing outcomes assessment.

RADT 4020 Clinical Education V (3 credits)—Prerequisite(s): RA DT 4010. The clinical experience consists of assignments in general radiography/fluoroscopy and specialty areas (oncology, magnetic resonance imaging, and cardiac catheterization). Students will demonstrate the highest level of cognitive, affective, and psychomotor skills to complete graduate
competencies, outcomes assessment, and program requirements. Practicing professionals clinical phase is specifically designed to facilitate growth and lifelong learning.

RADT 4030 Radiographic Pathology (3 credits)—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 Radiopharmaceuticales 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.

RADT 4060 Digital Imaging (3 credits)—Prerequisite(s): RADT 3000, RADT 3100, RADT 3060, and RADT 4010; Corequisite(s): RADT 4020. The course includes an introduction to the past, present, and future of digital imaging in radiology. The components of DICOM & PACS, the effects that digital imaging have impressed on the medical field, as well as, problem solving interventions will be discussed.

RADT 4070 Professional Transition to Radiography (3 credits)—Prerequisite(s): RADT 3000, RADT 3010, RADT 3030, RADT 3070; Corequisite(s): RADT 4020, RADT 4030, and RADT 4060. This is a capstone course for the students enrolled in the radiography program. It provides the student with a venue to synthesize knowledge and skills learned during the course of the program. In addition, it prepares the graduate to enter the profession of radiology.

Reading
RADT 3000 Current Issues in Literacy (1 credit)—This course explores international, national, and regional sociopolitical issues in literacy to meet the standards required of the Interdisciplinary Studies in Education major. This course examines, analyzes, and discusses current controversies in the teaching of literacy. Critical thinking, problem solving, and close textual analysis of readings in professional literature will be emphasized. Development of a professional voice in the discipline of literacy and literacy education will be encouraged through composition and oral presentations.

READ 3100 Early Literacy (3 credits)—The activities and study in this course focus on the research-oriented theoretical knowledge base concerning early language development. Emphasis is placed on both socio- environmental, physical growth and development, and academic forces contributing to early language and reading achievement.

READ 3200 Expanding Literacy (3 credits)—Prerequisite(s): A dmission to teacher education; Completion of READ 3000 and READ 3100. Study of theories relating to enhancement of literacy competencies for established readers. Theoretical models studied include content area reading, general reading for development, reading motivation, and recreational reading. A field-based assignment (10 hours) required.

READ 4026 Assessment and Enhancement of Literacy (3 credits)—Prerequisite(s): READ 3000, READ 3100, and READ 3200. Corequisite(s): CUAI 4210, CUAI 4220, CUAI 4310, and CUAI 4241. Study of theoretical foundations for the assessment of reading proficiency and models for building reading competencies. Targets for study include evidence-based components of reading processes.

READ 4027/5027 Diagnostic and Remedial Procedures in Reading (3 credits)—Emphasis on case study procedure. direct contact with children in diagnostic situations. formal and informal procedures for diagnosing reading skills, abilities, aptitudes, and methods and materials for the correction or improvement of diagnosed reading difficulties. Students desiring graduate credit will have requirements beyond normal course expectations.

READ 4146 Storytelling and Literacy (3 credits)—Study of storytelling and narrative as essential modes of expression, communication, and learning. The course focuses on developing oral delivery skills and applying storytelling to stimulate imagination and create lifelong learners.

READ 4147/5147 Basic Storytelling (3 credits)—Study of and practice in storytelling. Uses of storytelling in various settings including classrooms, libraries, churches, and homes as public events.

READ 4437/5437 Reading Instruction in Middle and Secondary Schools (3 credits)—Prerequisite(s): A dmission to teacher education. This course addresses reading strategies needed for various content areas. developmental, corrective, and remedial practices and procedures at the middle and secondary levels, and the role of language in learning subject matter content. Students desiring graduate credit will have requirements beyond normal course expectations.

READ 4626 Materials for Children’s Literacy (3 credits)—Prerequisite(s): A dmission to Teacher Education. A study of children’s literacy materials with emphasis on quality children’s literature, including multicultural literature. Involves reading and evaluating literature of various genres, as well as children’s periodicals and software.

READ 4817/5817 Practical Applications of Storytelling: National Storytelling Festival Experience (1 credit)—This course provides the student with training in planning, directing, and administering a storytelling festival; Festival activities introduce the student to various storytelling styles and content.

READ 4827/5827 Storytelling Resource Evaluation (1-6 credits)—This course is designed to prepare the student to organize and participate in a storytelling festival.

READ 4900 Independent Study in Reading (1-3 credits)—By approval from the program coordinator.

READ 4957/5957 Topics in Reading (1-6 credits)—Prerequisite(s): D ependent on subject matter. Selected topics of current interest in reading. Offered upon sufficient demand for specific subject matter. May be repeated for different topics. Consultation with the instructor is recommended before enrollment.

Graduate Course Listing
For Descriptions and Prerequisite(s) see the Graduate Catalog

READ 5120 Teaching Reading ................................................... (3 credits)
READ 5170 Materials for Reading and Language Arts ...................... (3 credits)
READ 5190 Linguistics of Reading .............................................. (3 credits)
READ 5210 Psychology of Reading .............................................. (3 credits)
READ 5230 Advanced Storytelling .............................................. (3 credits)
READ 5241 Practicum in Teaching Reading ................................... (3 credits)
READ 5830 Storytelling Institutes .............................................. (3 credits)
READ 5840 Story Dramatization ................................................. (1-2 credits)
READ 5850 Story Performance .................................................. (1-3 credits)
READ 5860 Storytelling ............................................................... (3 credits)
READ 5870 Multicultural Storytelling .......................................... (1-3 credits)
READ 5880 Storytelling, Journal Editing, and Publishing ................. (1 credit)
READ 5890 Historical and Psychological Foundations ...................... (3 credits)
READ 5900 Independent Study in Reading ................................... (3 credits)
READ 5960 Thesis ..................................................................... (3-6 credits)
READ 5990 Reading ................................................................. (1-3 credits)

Religious Studies
REL I

REL I 2210 Introduction to the Study of Religion (3 credits)—A comparative and historical introduction to the world’s ways of being religious.

REL I 3220 Western Religions (3 credits)—Prerequisite(s): REL I 2210, or permission of the instructor. A study of the religious life of the West, from preliterate societies and classical civilizations of the past through contemporary Judaism, Christianity, and Islam.
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**RELI 3230 Eastern Religions (3 credits)**—A study of religions whose origins were in the East: Hinduism, Buddhism, Confucianism, Taoism, and Zen.

**RELI 3240 The Hebrew Scriptures (3 credits)**—Prerequisite(s): RELI 2210, or permission of the instructor. A historical and literary survey of the Hebrew Bible.

**RELI 3250 Greek Scriptures (3 credits)**—Prerequisite(s): RELI 2210, or permission of the instructor. A historical and literary survey of the Greek/Christian Scriptures.

**RELI 3261-63 Religion Colloquium (1-3 credits)**—Prerequisite(s): RELI 2210 or permission of the instructor. Some issue, movement, or person of importance to the study of religion will be selected for the topic. Course may be repeated to a maximum of nine (9) credit hours.

**RELI 4220 Contemporary Religious Thought (3 credits)**—Prerequisite(s): A total of one (1) RELI course at the 3000 level; or permission of the instructor. A survey of developments in religious thought from the mid 19th century to the present.

**RELI 4920 Independent Studies in Religion (1-3 credits)**—Prerequisite(s): A total of one (1) RELI course at the 3000 level or permission of the instructor.

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**Radio/Television/Film**

**RTVF 2600 Survey of Broadcasting (3 credits)**—The study of the development of the broadcast/cable/teleproduction industry and its present structure, new technologies, FCC, and other regulatory agencies, station, network, cable, and teleproduction operations and their effect on society.

**RTVF 2604 Radio/TV Laboratory (1 credit)**—Prerequisite(s): RTVF F 2630, RTVF F 3630, RTVF F 3640, RTVF F 3651, RTVF F 3661, and permission of instructor. Instruction and practical experience in producing the radio and television segments. A complete product from concept to “aired” segment is required in radio or television. May be repeated. Credit may also be earned in RTVF 4604.

**RTVF 2630 Writing for Radio/TV (3 credits)**—Prerequisite(s): RTVF F 2600 or permission of instructor. Techniques of writing radio/television copy including commercials, announcements, program continuities, and dramatic scripts.

**RTVF 3600 Radio/TV News (3 credits)**—Prerequisite(s): RTVF F 2600 or permission of instructor. A study of the organization and function of broadcast news with training in reporting, writing, and editing news for various formats and program types.

**RTVF 3602 Video-Film Techniques (3 credits)**—Prerequisite(s): RTVF F 2600 or permission of instructor. Theory and technique of commercial, ENG and EFP video, and digital technology. Course provides practical experience with all types of hardware and software.

**RTVF 3640 Broadcast Performance (3 credits)**—Prerequisite(s): RTVF F 2600 or permission of instructor. The study and development of communication principles and skills for the announceur and actor with specific theory and training in the techniques, methods, and procedures that relate to broadcast performance.

**RTVF 3651 Radio Production (3 credits)**—Prerequisite(s): RTVF F 2600 or permission of instructor. Principles and methods of producing and directing representative types of radio programs in lecture and lab sessions.

**RTVF 3661 Television Production (3 credits)**—Prerequisite(s): RTVF F 2600 or permission of instructor. Principles and methods of producing and directing representative types of television programs in lecture and lab sessions.

**RTVF 3671 Broadcast Programming (3 credits)**—Prerequisite(s): RTVF F 2600 or permission of instructor. The planning of radio and television programs and formats. Design of specific programs to effectively reach a desired audience. Includes analysis and redesign of programs already on the air. Available in odd-numbered years.

**RTVF 4080 Broadcasting Internship (3 credits)**—Prerequisite(s): Permission of instructor. Paid professional experience in broadcasting.

**RTVF 4401 Topics in Broadcasting (1-6 credits)**

**RTVF 4600 Radio/TV Reporting and Editing (3 credits)**—Prerequisite(s): RTVF F 2600, RTVF F 3600, and RTVF F 3662; or permission of instructor. Experience in preparing radio and television newscasts for presentation. Synthesis of reporting, writing, audio, and film coverage of national, regional, and local news. Practical experience gained by presentation over radio and television.

**RTVF 4604 Radio/TV Laboratory (1 credit)**—Prerequisite(s): RTVF F 2630, RTVF F 3602, RTVF F 3640, RTVF F 3651, RTVF F 3661, and permission of instructor. Instruction and practical experience in producing the radio and television segments. A complete product from concept to “aired” segment is required in radio and television. May be repeated. Credit may also be earned in RTVF 2604.

**RTVF 4651 Advanced Radio Production (3 credits)**—Prerequisite(s): RTVF F 3651 or permission of instructor. A study of production methods with an emphasis on laboratory training in producing and directing special projects and complete radio programs.

**RTVF 4661 Advanced TV Production (3 credits)**—Prerequisite(s): RTVF F 3602 or permission of instructor. A study of production methods with an emphasis on laboratory training in producing and directing special projects and complete television programs.

**RTVF 4680 Broadcast Production Practicum (2 credits)**—Prerequisite(s): RTVF F 2630, RTVF F 3602, RTVF F 3640, RTVF F 3651, RTVF F 3661 and permission of instructor. Instruction and practical experience in producing the radio and television programs. A complete product from concept to “aired” program is required in radio and television.

**RTVF 4690 Broadcast Management (3 credits)**—Prerequisite(s): RTVF F 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)**

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**Sports Management and Leisure Services**

**SALM 3100 Introduction to Leisure Services (3 credits)**—An overview of the history and professional developments in leisure services. Broad treatment is given to the types and functions of leisure services in a modern world.

**SALM 3105 Programming and Leadership in Leisure Services (3 credits)**—This course is designed to introduce the student to program and leadership skills used in leisure services. Emphasis will be on leadership techniques, group dynamics, communication skills, and program development for various leisure services.

**SALM 3110 Interpretation of Cultural and Natural Resources (3 credits)**—This course will focus on the study and practice of interpretative techniques of cultural and natural resources. Emphasis will be placed on the development of skills in designing, producing, and presenting interpretative materials and programs in a recreational setting to all segments of the population. This course will also provide a service-learning project that will involve interaction with a leisure service organization that incorporates interpretation into its activity program.
SALM 3115 Wilderness First Responder (3 credits)—This course will focus on the preparation of outdoor leaders to respond to medical emergencies in remote locations. Emphasis will be placed on prevention of medical emergencies and decision-making when emergencies occur. Also covered will be extended care and prolonged transport and improvised equipment. Additional course cost will be involved to cover the cost of supplies, certification, and instructor.

SALM 3117 Recreation for Special Populations (3 credits)—This course is an introduction to the area of therapeutic recreation and providing recreational services to special populations. Components of this course will include background information on the development of therapeutic recreation, environmental barriers, and recreation opportunities, characteristics of selected populations, and program planning considerations for special populations. This course will include a service-learning component and require field trips to agencies providing therapeutic recreation services.

SALM 3120 Outdoor Recreation Skills (3 credits)—This course was designed to develop outdoor leadership and basic outdoor recreational skills in a variety of outdoor activities. In addition to the regular on-campus classes, students will be required to participate in several weekend field trips during which time they will demonstrate practical application of the skills and knowledge acquired. Activities covered in this course will include camping and campcrafts, outdoor cookery, hiking and backpacking, map and compass use, canoeing, and rock climbing.

SALM 3125 Camp Leadership (3 credits)—A study of organized camping with emphasis on leadership, programming, and camp administration. This course will follow the American Camping Association course content for the Basic Camp Director program.

SALM 3130 Natural Resource Management (3 credits)—This course will focus on the administration of recreational lands by state and federal agencies with emphasis on management policies and procedures. This course will include service-learning experiences involving travel to and volunteer work with federal and state land management agencies.

SALM 3150 Regional Outdoor Leadership and Service (3 credits)—This course has been designed to support the ETSU outdoor initiative cohort. It is a service-learning course and will involve travel to and work in selected areas of the southeastern region of the United States. Emphasis during this course will be on developing an in-depth understanding of the areas visited and the impact of management policies on the environment and recreational opportunities. Students will be actively involved in planning and leading all field trips. Opportunities will be available for refinement of outdoor living and leadership skills in an outdoor environment. This course will involve extensive tent camping and travel by van as part of a group experience.

SALM 3210, 3211 Practicum in Sport and Leisure Management I, II (1 credit each)—This class will afford the student the opportunity to perform management duties under the supervision of a sports or leisure services manager. The assignment will be part time (up to 8 hours, maximum, per week and a maximum of 48 total hours per semester) and be performed either on campus or in close proximity to campus.

SALM 3220 Introduction to Sport Management (3 credits)—This course introduces students to the meaning of sport management in terms of its scope, foundations, issues, and future trends. Emphasis will be a variety of sports or sport related organizations. Various career opportunities available in the field of sport management will also be discussed.

SALM 3220 Facility Planning and Event Management (3 credits)—A study of content concerning the planning of facilities to accommodate sport and fitness activities. Students will learn procedures to effectively conduct sporting events.

SALM 3225 Marketing Strategies and Public Relations in Sport Management (3 credits)—This course is designed to provide students with a practical application of marketing science and public relations as they relate to all realms of the sport industry-professional sports intercollegiate, interscholastic, and intramural sport, amateur sports, and all elements of commercial clubs, resorts, camps, and service organizations.

SALM 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, enjoyable, 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 Social Psychology of Sport and Leisure (3 credits)—An introduction to the psychological and sociological behavioral dimensions that underlie participation in exercises, Fitness, recreational, and competitive sport activities.
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SALM 4225 Management of Sport and Leisure Activities (3 credits)—To provide the student with knowledge of sport management in both athletics and leisure sport including management theories, roles and responsibilities

SALM 4230 Fund-Raising in Sports (3 credits)—This course is designed to provide students with the knowledge to seek out resources from a wide range of possible sources and to use marketing and promotions skills to employ resources to yield optimum benefits.

SALM 4250 Internship in Sport and Leisure Management (12 credits)—This class will give the student the opportunity to put theory into practice. Students will work in a sport or leisure management agency for forty hours per week (minimum of 480 clock hours per semester) for an entire semester. Students will be consulted as to the sport or leisure management agency desired for the internship experience.

Graduate Course Listing
For Descriptions and Prerequisite(s) see the Graduate Catalog

SALM 5020 Sport in Society ............................................................ (3 credits)
SALM 5220 Internship in Sport Management ............................. (6 credits)
SALM 5230 Sport Marketing ....................................................... (3 credits)
SALM 5330 Legal Issues ............................................................... (3 credits)
SALM 5340 Risk Management and Assessment in Sport ............ (3 credits)

Science Education
SCED

SCED 3250 Elementary Science Education (3 credits)—Prerequisite(s): Completion of eight credit hours of science. Materials methods, activities, and content appropriate to the program of science in the elementary school.

SCED 4020 Wildlife Conservation (3 credits)—Prerequisite(s): Completion of eight credit hours of science. Relationships of wild animals to the physical environment and to other organisms, including humans, with emphasis on man’s attempts to restore and maintain habitats.

SCED 4321 Exploring and Discovery in Science (4 credits)—Prerequisite(s): Admission to Teacher Education. Completion of eight (8) credit hours of science from general education core. Completion of S C E D 4020 Wildlife Conservation. This course provides a comprehensive integrated science content perspective in the areas of physical, life, earth, and space science. A laboratory component involving inquiry-based research will expand on the course content of conceptual understanding, content, skills, and dispositions in science including understanding of the nature of science.

SCED 4417/5417 Teaching Science in Secondary Schools (3 credits)—Prerequisite(s): Twelve credits of science and upper-division standing. Methods of teaching science in junior and senior high. Emphasis on classroom and laboratory techniques, demonstrations, selections of material, and visual aids.

SCED 4527/5527 Science Methods for Early Childhood (3 credits)—Prerequisite(s): A admission to Teacher Education and successful completion of all undergraduate science classes. Corequisite(s): This course is to be taken with CU A 4517/5517 and 4537/5537. This course provides a PreK-4 science education perspective. Science teaching methodology, content, skills, and dispositions are examined with an emphasis on integration with mathematics and other appropriate subject areas. Learning needs of culture, gender, and special populations are explored. Students will be required to participate in field experience in PreK-4 settings.

SCED 4904 Independent Study in Science Education (1-6 credits)

SCED 4957/5957 Topics in Science Education (1-6 credits)—Prerequisite(s): Dependent on subject matter. Selected topics of current interest in science education. Offered upon sufficient demand for specific subject matter. May be repeated for different topics. Consultation with the instructor is recommended before enrollment.

Sociology and Anthropology
SOAA

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

SOAA 1020 Introduction to Sociology (3 credits)—Sociology is the systematic study of social behavior. Topics include interaction, culture, inequality and social class, the changing society, socialization, subcultures, crime and deviance, family and religion, among others.

SOAA 1240 Introduction to Cultural Anthropology (3 credits)—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 1260 Introduction to Archaeology (3 credits)—Examination of archaeological field techniques, laboratory methods, and requisite federal and state laws. The archaeology of world prehistory is surveyed from the beginnings of the human lineage and the rise of anatomically modern humans through the development of fully agricultural societies.

SOAA 1280 Introduction to Physical Anthropology (3 credits)—An examination of the evolution of humankind focusing on genetic, paleontological, and primatological evidence. Human biological variation is also considered with respect to the dynamics of evolution and the interaction between biology and culture.

SOAA 2000 Marriage and the Family (3 credits)—An overview of the effects of societal change on marital and nonmarital relationships. Topics include premarital dynamics, singles, dual career families, family violence, and divorce.

SOAA 2020 Social Problems (3 credits)—Prerequisite(s): SO AA 1020. Sociological study of major current problems confronted in American society and the beliefs that compound them.

SOAA 2040 Folk Culture in the Modern World (3 credits)—Prerequisite(s): SO AA 1020, SO AA 1240, or permission of instructor. An introduction to the major theories, concerns, and methods of modern folklore scholarship with strong emphasis upon field studies of family and regional traditions and the practical applications of folklore research in cultural outreach and public educational programs.

SOAA/BLUE 2150 American Folk Music (3 credits)—A multicultural survey of America’s diverse ethnic and regional traditions of folk music, how they have been revived and popularized in the twentieth century, and their contributions to contemporary popular culture around the world.

SOAA 3028 Honors Cultural Anthropology (3 credits)—Open to those in the Honors Scholars Program only. An introduction to ethnography and the world of cultural diversity as well as to ethnographic research methods.

SOAA 3030 Gender and Society (3 credits)—Prerequisite(s): SO AA 1020 or permission of instructor. Study of the social construction of gender and its consequences for individuals and society. Examination of cultural assumptions about gender identities, roles, behaviors, and the social processes that reproduce gender inequality.

SOAA 3060 Medical Sociology (3 credits)—Prerequisite(s): SO AA 1020 or permission of instructor. Study of the concepts, theories, and methods of medical sociology with particular emphasis on the analysis and application of the findings of contemporary research in medical sociology.

SOAA 3070 Medical Anthropology (3 credits)—Prerequisite(s): SO AA 1240, or permission of instructor. An introduction to the crosscultural, holistic, and evolutionary study of illness and health. Major topical areas include ethnomedical belief systems, the interaction of biology and culture, and culture as an adaptive mechanism.
SOAA 3080 Nutritional Anthropology (3 credits)—Prerequisite(s): SOAA 1240. This course examines the biological and social forces that shape human food use and the nutritional status of individuals from an evolutionary and cross-cultural perspective.

SOAA 3110 Minorities (3 credits)—Prerequisite(s): SOAA 1020 or permission of instructor. Examination of the relationships between dominant and subordinate racial, ethnic, and other groups in the U.S., the theoretical perspectives, the processes that create or maintain institutional discrimination, and current issues concerning intergroup relations.

SOAA 3150 Urbanization (3 credits)—Prerequisite(s): SOAA 1020 or permission of instructor. Processes of urbanization and the urban impact on rural life, the structure of the metropolis, segregation, slums, suburbs, mobility, disorganization, and cultural change.

SOAA 3210 Sociological Research (3 credits)—Prerequisite(s): SOAA 1020 or permission of instructor. Methods used in investigating and reporting social phenomena.

SOAA 3250 Environmental Anthropology (3 credits)—Study of the political economy and cultural ecology of global development policies and their social and material impacts for peoples of the world. Special focus will be given to indigenous populations whose lifeways and worldviews are most compromised.

SOAA 3260 Visual Anthropology (3 credits)—Prerequisite(s): SOAA 1240. An exploration of the impact that technological advances in capturing images on film has made in the field of anthropology. Ethnographic films and associated literature will be investigated.

SOAA 3300 Deviant Behavior (3 credits)—Prerequisite(s): SOAA 1020 or permission of instructor. An analysis of various types of deviance in society with an emphasis on the application of various theories. Topics include drug addiction, prostitution, mental illness, disability, sexual deviance, alcoholism, and domestic violence.

SOAA 3310 Criminology (3 credits)—Prerequisite(s): SOAA 1020 or permission of instructor. An analysis of the major sociological theories of crime causation, sociological aspects of types of offenders, and techniques of measuring crime.

SOAA 3320 Juvenile Delinquency (3 credits)—Prerequisite(s): SOAA 1020 or permission of instructor. A study of the extent, causes, treatment, and prevention of delinquency.

SOAA 3350 Social Statistics (3 credits)—Prerequisite(s): MATH 1530. An introduction to applied statistics in the field of sociology and related disciplines.

SOAA 3400 Human Osteology and Paleontology (3 credits)—An intensive survey of the human skeleton, including differences by sex, age, and ethnicity. Study of the evolutionary history of humankind from early hominids to anatomically modern humans.

SOAA 3444 Data Analysis (3 credits)—Prerequisite(s): MATH 1530, CSCI 1100, and SOAA 3210; or a comparable course with the approval of the instructor. Instruction on the use of SPSS and/or other software packages for analyzing social science data via statistics with an emphasis on interpretation and application.

SOAA 3500 Appalachian Folk Medicine (3 credits)—The study of folk medical beliefs and practices, focusing on Southern Appalachia from the late 1800s to 1940. Topics examined include folk materia medica and therapeutics, magic-religious beliefs and practices, folk healers, folk concepts of illness and human physiology.

SOAA 3700 Peoples and Cultures of Latin America (3 credits)—An introduction to various cultures and nations in Latin America Topics include indigenous cultures, cultural variation, economic development, political change and demographic processes.

SOAA 3800 Religion, Society, and Culture (3 credits)—Prerequisite(s): SOAA 1020, SOAA 1240, or permission of instructor. Analysis of the social and cultural dimensions of religion and the origins, functions, and place of religion in human societies.

SOAA 4007 Archaeology of the Southeastern United States (3 credits)—Intensive survey of the prehistory of the Southeastern United States. Course covers the span of time from the peopling of the New World, some 13,000+ years ago, up through European contact.

SOAA 4017 Historic Native American Cultures of the Southeastern U.S. (3 credits)—An archaeological survey of the historically known Native American tribes of the Southeastern U.S. Study of native lifeways and the effects of European influence and colonization efforts on aboriginal societies.

SOAA 4018 Honors Thesis (3 - 6 credits)—Open to those in university honor programs only. A capstone experience serving as the culmination of an honors curriculum.

SOAA 4037 Old World Archaeology (3 credits)—Prerequisite: SOAA 1260. An intensive survey of the prehistory of Africa, Asia, and Europe from the Paleolithic Era (including human origins and early hunter-gatherer adaptations) through the Iron Age (including the transition to domestication and agriculture as well as the rise of complex societies).

SOAA 4057/5057 Community Sociology (3 credits)—Prerequisite: SOAA 3210, CJCR 2000, or PSYC 3201. An examination of the issues and concepts of community and the principles of community-based research using theoretical and applied approaches.

SOAA 4087/5087 The Family in Transition (3 credits)—Prerequisite(s): SOAA 1020 or permission of instructor. An analysis of the changing family with emphasis on family theory.

SOAA 4157/5157 Sociology of the City (3 credits)—The sociology of modern urban centers with emphasis upon the development, social organization, and social change that characterize this aspect of modern society, and the influence of urban patterns upon the total society.

SOAA 4257/5257 Power, Wealth, and Poverty (3 credits)—Prerequisite: SOAA 1020. Examination of the theories and research concerning the distribution of power, wealth, and prestige in American society, and the impact of social class on life chances.

SOAA 4337/5337 Social Psychology (3 credits)—Prerequisite(s): SOAA 1020 or permission of instructor. Study of social interaction, the development of self, and the social construction of reality.

SOAA 4357/5357 Mass Communications and Popular Culture (3 credits)—Prerequisite(s): SOAA 1020 or permission of instructor. An examination of the impact of modern communications technology upon traditional lifestyles and world views, particularly entertainment during the 20th century.

SOAA 4407/5407 Sociology of the Aging (3 credits)—Prerequisite: SOAA 1020. An application of basic sociological principles, theories, and research findings to the understanding of the aging and their relationships with other segments of the population.

SOAA 4557/5557 Population (3 credits)—Prerequisite(s): SOAA 1020 or permission of instructor. Major population characteristics, trends, and problems, primarily those of the United States.

SOAA 4567/5567 Scottish Ethnology (3 credits)—A survey of Scottish ethnic and regional groups and their folk traditions.

SOAA 4627/5627 Ethnographic Field Work Techniques (3 credits)—Prerequisite(s): SOAA 1020 or permission of instructor. An introduction to the information-gathering techniques and strategies employed by modern anthropologists, folklorists, and qualitative sociologists— including interviewing, recording, photography, transcription, and data analysis. Practical applications and cultural situations are also stressed.

SOAA 4630 Native American Culture in Contemporary Society (3 credits)—An introduction to Native American populations of the United States. Classical anthropological study of indigenous mythologies and pre-contact traditions will be addressed, as well as contemporary issues of poverty, health, public policy, and pan-Indianism.
SOAA 4807/5807 Modern Social Theory (3 credits)—Prerequisite(s): SOAA 1020 or permission of instructor. This course provides a comprehensive survey of key modern social theorists and theories within the historical context of the emergence of the modern world order. Fall

SOAA 4900 Independent Studies (1-3 credits)—Prerequisite(s): Permission of instructor.

SOAA/APS 4907 Foodways of Appalachia (3 credits)—Traditional and developing food cultures of the Mountain South. Topics include: the historical roots of Appalachian cookery; food and class in Appalachia; Native American and African influences on mountain cuisine; immigrant cooking in the mountains; the rituals of the mountain table; the products of the land and larder; traditional food preservation techniques and beliefs; and the emergence and viability of sustainable agriculture and aquaculture.

SOAA 4957/5957 Special Topics in Sociology/Anthropology (1-6 credits)

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

Graduate Course Listing

For Descriptions and Prerequisite(s) see the Graduate Catalog

SOAA 5050 Sociology of Education ................................................. (3 credits)
SOAA 5110 Contemporary Social Theory ........................................ (3 credits)
SOAA 5210 Sociological Research .................................................. (3 credits)
SOAA 5315 Seminar in Crime and Delinquency ................................ (3 credits)
SOAA 5320 Program Evaluation ...................................................... (3 credits)
SOAA 5444 Applied Data Analysis for the Social Sci. ............................................. (3 credits)
SOAA 5500 Topical Seminar ................................................................. (3 credits)
SOAA 5600 Seminar in Medical Sociology ........................................... (3 credits)
SOAA 5620 Sociology of Age and The Life Course ................................ (3 credits)
SOAA 5620 Skills in Applied Sociology and Anthropology ...................... (3 credits)
SOAA 5850 Supervised Internship ...................................................... (1-3 credits)
SOAA 5870 Internship Placement Report ............................................ (1-3 credits)
SOAA 5890 Independent Studies ...................................................... (1-3 credits)
SOAA 5890 Readings and Research .................................................. (3 credits)

Social Work

SOWK

SOWK 1010 Introduction to Social Work (3 credits)—Introduces students to the profession of social work and provides an overview of the professional knowledge, skills, and values necessary for generalist social work practice. Students are introduced to the historical evolution of social work, the history of social welfare, the various fields of social work practice nationwide and in the Appalachian region, and general systems theory.

SOWK 1020 Professional Values and Ethics (3 credits)—This introductory course provides a forum for examining personal, professional, and societal values and for developing the skills needed to make ethical decisions in social work and in other helping professions. The course examines core professional values, principles, and ethical standards that are the bases for identifying ethical issues, for examining all possible resolutions and their potential outcomes or possible repercussions, and for reaching thoughtfully reasoned conclusions to complex ethical dilemmas. Boundary issues as a specific type of ethical concern are highlighted, as related to the roles of student, client, professional helper, and supervisor. This course introduces students to the practicalities of malpractice risk and liability.

SOWK 1030 Cultural Diversity (3 credits)—The dual purpose of this course is to introduce the knowledge necessary for social work practice with disadvantaged, marginalized, and oppressed groups and to advance a philosophy that people come first and must be treated with dignity and respect. Issues of power, privilege, prejudice, discrimination, oppression, civil rights, historical and legal heritage, and contemporary news events are central course components. Opportunities are provided for examining personal values and beliefs and their impact on interactions with minority groups. Although several aspects of diversity are examined, the emphasis is on race, class, gender, ethnicity, and affectional orientation. Implications for sensitive, effective, and affirming practice with minority groups are examined.

SOWK 1100 Social Service Resources (1 credit)—Prerequisite(s): SOWK 1010 and major status. Designed to provide students the opportunity to develop and demonstrate knowledge and understanding of social work agencies and clientele. Additionally, the development of self-awareness is expected, particularly as related to the student’s own suitability for social work in specific agencies.

SOWK 2400 Rural and Appalachian Culture (3 credits)—Designed to provide an understanding and appreciation of the unique cultural characteristics of rural and Appalachian people, with a focus on the impact of major social institutions, e.g., family, religion, social welfare, education, and economics. The role of generalist social work practice in rural areas and in Appalachia is explored in order to prepare students to become more effective service providers in the region.

SOWK 2500 Interviewing and Recording Skills (3 credits)—Prerequisite(s): SOWK 1010. Provides a beginning knowledge base and the development of interviewing and recording skills essential for generalist social workers and those pursuing other human service professions. This course focuses on interviewing and recording techniques that can be applied to all levels of social work practice. Interviewing and recording skills are developed through the use of role play and videotaped scenarios. Systems theory is applied to the conscious selection of techniques to be used with various populations at different levels of practice.

SOWK 3000 Human Behavior/Social Environment I (3 credits)—Prerequisite(s): SOWK 1010, SOWK 1020, SOWK 1030, SOAA 1020, PSYC 1310, and one of the following BIOL 1010/11, BIOL 1020/21, BIOL 1110/11 or HSCI 2010/11; Corequisite(s): SOWK 3010; Prerequisite(s) or Corequisite(s): HDAL 2310. This course provides basic knowledge about human behavior from a person-in-environment perspective. It helps the student to recognize the unique challenges confronting individuals and families who suffer oppression and discrimination. It identifies the adaptive strategies that people employ to cope with adversity. It presents a strengths-based, problem-solving approach, which constitutes the assessment phase of generalist practice at the micro level.

SOWK 3010 Human Behavior/Social Environment II (3 credits)—Prerequisite(s): SOWK 1010, SOWK 1020, SOWK 1030, SOAA 1020, PSYC 1310, and one of the following BIOL 1010/11, BIOL 1020/21, BIOL 1110/11 or HSCI 2010/11; Corequisite(s): SOWK 3010; Prerequisite(s) or Corequisite(s): HDAL 2310. Provides a social work orientation to understanding human behavior in large groups, communities, and formal organizations. Theories for macro change are explored. The concept, function, and structure of communities and organizations as systems are examined. Explicit attention is given to the patterns and consequences of discrimination and oppression.

SOWK 3430 Social Welfare Policy and Services (3 credits)—Prerequisite(s): PSCI 1120 and SOWK 1010. This course addresses the history of social policies and subsequent programs put in place to address perceived social problems and includes legislative, judicial, and administrative efforts. Students develop an ability to analyze social policy as it relates to societal values, populations at risk of harm, the “status quo,” and the socio-politico-economic climate of a particular time, including contemporary national policy debates.

SOWK 3462 Social Services for Children (3 credits)—Focuses on the development of child welfare programs and services, contemporary issues such as child neglect and abuse, and modes of professional intervention on behalf of children and families. Particular emphasis will be given to service provision in the Appalachian region.

SOWK 4210 Social Work Research (3 credits)—Prerequisite(s): MATH 1530, CSCI 1100, SOWK 1010. This course is designed to provide students with an understanding and an appreciation for the scientific approach. Students will have the opportunity to understand how the scientific approach is used to build a knowledge base for generalist social worker practice and how it is used to evaluate practice/program effectiveness. Standards for ethical behavior applicable to the scientific process are presented and discussed. Furthermore, this course will require the student to become involved in understanding and applying qualitative/
quantitative methods, data analysis techniques, practice/program evaluation designs, and in raising pertinent social work research questions. This course also requires students to critically evaluate research articles pertinent to generalist social work practice.

SOWK 4310 Social Work Practice I (4 credits)—Prerequisite(s): SOWK 2500, SOWK 3000, and formal admission to the social work major. Corequisite(s): SOWK 4320. This course provides the general method as a practice framework for beginning social work practice. Building on foundation knowledge, values, and skills introduced in SOWK 1020, SOWK 2500, and SOWK 3000, this course emphasizes an ecological-systems approach to problem solving. Students further develop this foundation as it relates to engagement, data collection, assessment, intervention, evaluation, and termination phases in service delivery with a variety of systems. Primary emphasis is on micro and small group systems. Students learn how to work effectively without bias or discrimination. Students are required to participate in community-based learning experiences.

SOWK 4320 Social Work Practice II (4 credits)—Prerequisite(s): SOWK 2500, SOWK 3010, SOWK 3430, and formal admission to the social work major; Corequisite(s): SOWK 4310. This course provides the general method as a practice framework for beginning social work practice and moves the beginning generalist practitioner to more complex macro systems. Emphasis is placed on the problem-solving techniques of problem identification, research and data collection, assessment, design and selection of planned change strategies, implementation, and evaluation. Nondiscriminatory practice is reinforced. Students are required to participate in community-based learning experiences that incorporate planning program and development activities.

SOWK 4367/5367 Seminar in Alcohol and Drug Abuse (3 credits)—This course survey provides a basic understanding of alcohol and drug abuse. Students are introduced to the various classifications of drugs, abuse symptomatology, and causes of abuse. The characteristics of high-risk groups are examined along with various treatment models and preventive efforts. General systems theory provides the framework for looking at this societal problem and professional involvement with it. Attention is given to the regulations controlling the use of drugs in society.

SOWK 4453 Social Work Field Practicum (16 credits)—Prerequisite(s): Senior status; Completion of all required major courses and General Education Core requirements; Overall GPA of 2.25 and a 2.5 GPA in required SOWK courses. This is a one-semester-block field experience placement involving over 500 clock hours of educationally directed and professionally supervised social work activities in a social work setting in Appalachia. The student also is required to participate in regularly scheduled field integration seminars on campus. The practicum allows application of the theoretical knowledge, professional values, and practice skills acquired throughout the curriculum so students can build on these practice elements in order to progressively engage in various roles of intervention and to employ a variety of methods. The purpose of the course is to enable the student to further develop generalist practice skills and to integrate professional knowledge, values, attitudes, skills, and theory with practice.

SOWK 4467/5467 Seminar in School Social Work (3 credits)—This course prepares students for licensure as a school social worker. It explores policies, practices, historical developments, and legislative trends affecting social work services in schools. School-community relationships are examined, as well as the impact of societal attitudes upon schools. Special emphasis is placed on the theory and practice expressed by the Tennessee Department of Education’s “Minimum Competency Requirements for School Social Workers K - 12,” “Criteria for the Evaluation of School Social Workers,” and NASW Standards of Social Work Services in schools.

SOWK 4517/5517 Crisis Intervention (3 credits)—This survey course explores the various types of crises and approaches to crisis intervention in professional practice. General systems theory is the basic underlying framework. Students engage in role play, simulations, and games, to develop beginning professional skills needed to work with individuals, families, groups, and communities in crisis.

SOWK 4567/5567 Human Sexuality (3 credits)—This survey course on human sexuality introduces students to sexual attitudes, sexual physiology and response, sexual techniques and behavior, reproduction and reproductive control, sexually transmitted diseases, and how sexual behavior is learned and developed, i.e., psychosocial development and cultural impact. It provides students with the opportunity for value clarification and exploration of personal and social attitudes toward varying forms of sexual behavior and orientations.

SOWK 4900 Directed Independent Study (1-3 variable credit)—Prerequisite(s): Permission of instructor and formal admission to the major. Directed independent study on a topic that is related to social work practice and is of special interest to the student. Enables students to utilize research knowledge and skills in pursuing in depth a special area of interest. Students are provided guidance and direction by a faculty member who has expertise in the area of study.

SOWK 4928 Honors Study (3 credits)—Prerequisite(s): Permission of instructor and senior status in social work. Directed independent study or project on a topic that is related to social work practice and is of special interest to the student. The course is limited to senior social work majors who have attained a grade point average of 3.0 or above and show exceptional promise for the profession. Enables students to utilize research knowledge and skills in pursuing in depth a special area of interest. Students will be provided guidance and direction by a faculty member who has expertise in the area of study.

SOWK 4957/5957 Special Topics in Social Work (3 credits)—Prerequisite(s): Junior or senior status. Selected topics that relate to fields of practice, current issues in the profession, or area of special interest.

Graduate Course Listings

For Descriptions and Prerequisite(s) see the Graduate Catalog

SOWK 5101 Multicultural Practice ................................................................. (3 credits)
SOWK 5102 HBSE I ................................................................................. (3 credits)
SOWK 5103 SW Practice I ................................................................. (3 credits)
SOWK 5104 SW Policy & Programs .............................................................. (3 credits)
SOWK 5106 Foundation Field I ................................................................. (3 credits)
SOWK 5202 HBSE II ................................................................................. (3 credits)
SOWK 5203 SW Practice II ................................................................. (3 credits)
SOWK 5204 Psychopathology .................................................................. (3 credits)
SOWK 5205 Research I ................................................................. (3 credits)
SOWK 5206 Foundation Field II ................................................................. (3 credits)
SOWK 5207 Advanced SW Research ............................................................ (3 credits)
SOWK 5208 SW Research II ................................................................. (3 credits)
SOWK 5223 AP/Group ................................................................. (3 credits)
SOWK 5403 AP/HSO ................................................................................. (3 credits)
SOWK 5405 SW Research III ................................................................. (3 credits)
SOWK 5406 AP Field II ........................................................................ (6 credits)

Spanish

SPAN 1010-20 Beginning Spanish (3 credits)—A study of the four language skills of speaking, listening, reading and writing. Includes introduction to Hispanic culture.


SPAN 3003 Basic Spanish Grammar (3 credits)—Prerequisite(s): SPAN N 2020 or equivalent. A review of basic Spanish structures, such as the uses of ser and estar, object pronouns, and verb conjugation. This course is designed to consolidate the language skills acquired in the introductory-level courses and to build communicative skills and cultural competency.

SPAN 3033 Hispanic Readings and Composition (3 credits)—Prerequisite(s): SPAN N 3003. May be taken concurrently. An introduction to Hispanic literature with emphasis on writing.
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SPAN 3113 Spanish Conversation and Composition (3 credits)—Prerequisite(s): SPA N 3003. May be taken concurrently. Practice in conversation, with emphasis on idioms, syntax, and current expressions. Study of grammar through written compositions.

SPAN 3213 Spanish Phonetics and Pronunciation (3 credits)—Prerequisite(s): SPA N 3113. May be taken concurrently. An introduction to the phonetic system of Spanish and its spoken peculiarities in the Hispanic world.

SPAN 3313 Civilization of Spain (3 credits)—Prerequisite(s): SPA N 3113. Geography, history, and culture of Spain.

SPAN 3413 Civilization of Latin America (3 credits)—Prerequisite(s): SPA N 3113. Geography, history, and culture of Latin America.

SPAN 3513 Survey of Spanish Literature (3 credits)—Prerequisite(s): SPA N 3113. Representative works from Spanish literature.

SPAN 3613 Survey of Spanish-American Literature (3 credits)—Prerequisite(s): SPA N 3113. Representative works from Spanish-American literature.

SPAN 3713 Hispanic Poetry (3 credits)—Prerequisite(s): SPA N 3113. Works of the principal poets of Spain and Spanish America.

SPAN 4007/5007 Golden Age Drama (3 credits)—Prerequisite(s): SPA N 3113. A study of the origins of the Spanish theatre through the 17th century, with particular emphasis on Lope de Vega, Tirso de Molina, Juan Ruiz Alarcon, Calderon de la Barca, and Francisco de Rojas Zorrilla.

SPAN 4017/5017 Advanced Spanish Grammar I (3 credits)—Prerequisite(s): SPA N 3113. A study of complex grammatical aspects of the language such as ser vs estar, preterite vs imperfect, and the subjunctive.

SPAN 4018 Honors Thesis (3-6 credits)—Open to those in university honors programs only. A Capstone experience serving as the culmination of an honors curriculum.

SPAN 4027/5027 Advanced Spanish Grammar II (3 credits)—Prerequisite(s): SPA N 3113. A study of complex grammatical aspects of the language such as subjunctive in adverbial clauses, prepositions, placement of descriptive adjectives, pronouns, verbs used reflexively, and the passive voice.

SPAN 4070/5070 Cervantes (3 credits)—Prerequisite(s): SPA N 3113. A study of the representative works of Miguel de Cervantes Saavedra, with special emphasis on the Quijote.

SPAN 4117/5117 Hispanic Cinema (3 credits)—Prerequisite(s): SPA N 3113. 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)—Prerequisite(s): SPA N 2020 or equivalent. This is a community-based course which provides students with the knowledge and skills to effectively interact with members of Spanish-speaking communities in both social and professional contexts. This course teaches cultural competence and diversity through an interdisciplinary approach involving students and faculty in the promotion of cordial, supportive, and 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)—Prerequisite(s): SPA N 3113. 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)—Prerequisite(s): SPA N 3113. 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)—Prerequisite(s): SPA N 3113. Selected works by the principal 19th-century novelists and dramatists of Spain.

SPAN 4307/5307 The Generation of ‘98 (3 credits)—Prerequisite(s): SPA N 3113. The origins, development, and influence of this early 20th century renaissance of Spanish letters, with attention given to the most representative poets, dramatists, and novelists of the period.

SPAN 4407/5407 Twentieth-Century Spanish Literature (3 credits)—Prerequisite(s): SPA N 3113. Selected works by the principal 20th century novelists and dramatists of Spain.

SPAN 4507/5507 Spanish Short Story (3 credits)—Prerequisite(s): SPA N 3113. Spanish and Spanish-American short stories from the 19th and 20th centuries.

SPAN 4607/5607 Modernist Movement in Spanish America (3 credits)—Prerequisite(s): SPA N 3113. A study of Rubén Dari'o, his contemporaries and followers.

SPAN 4707/5707 Spanish-American Theatre (3 credits)—Prerequisite(s): SPA N 3113. Selected works of the principal 19th- and 20th- century dramatists of Spanish America.

SPAN 4737/5737 Art at the Prado Museum (3 credits)—Prerequisite(s): SPA N 2020 or equivalent. A study of the major school of painting at the Prado, with emphasis on the Spanish artists.

SPAN 4807/5807 Spanish-American Novel (3 credits)—Prerequisite(s): SPA N 3113. Selected works by the principal novelists of Spanish America.

SPAN 4903 Special Studies in Spanish (1-3 credits)—Prerequisite(s): SPA N 3113. Designed to provide opportunities for study in areas not provided in regular course offerings for undergraduates. Students desiring to enroll must obtain permission from the instructor.

SPAN 4957/5957 Topics in Spanish (3 credits)—Prerequisite(s): SPA N 3113. This course gives students an opportunity to study special problems and new developments in the field of Spanish.

Speech

SPCH 1300 General Speech (3 credits)—A study of effective interpersonal, 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 methods for analyzing and evaluating persuasive speeches, essays, editorials, television programs, and advertisements.
SPCH 3310 Intrapersonal Communication Processes (3 credits)—A study of those processes that take place within communicators as they speak, listen, and process information with special emphasis on the functional and dysfunctional effects of those processes on the cognitive domain.

SPCH 3330 Quantitative Communication Research Methods (3 credits)—Prerequisite(s): SPCH 1300 or SPCH 2300 or SPCH 2330, or permission of instructor. A study of the methods and issues concerning designing, implementing, and evaluating communication research in intrapersonal, interpersonal, group, public speaking, and mass media situations.

SPCH 3350 Interpersonal Communication (3 credits)—A study of the theoretical foundations and the applied practice of interpersonal and relational communication.

SPCH 3380 Dynamics of Group Leadership (3 credits)—A study of communication in small groups with emphasis on building leadership skills and improving group problem-solving efforts.

SPCH 3390 Persuasion (3 credits)—A study of available means of influencing another person/group and conducting mass campaigns and advertising. Emphasis is on influence through the speech medium, but other verbal and nonverbal channels of persuasion are considered.

SPCH 4018 Honors Thesis (3 credits)—Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

SPCH 4210 Family Communication (3 credits)—Explores how family systems use communication to create, sustain, and change individual identity and social reality. This course broadly construes the concept of family.

SPCH 4317/5317 Rhetoric and Public Address (3 credits)—Historical study of rhetorical theory as applied to manuscripts, speakers, and audiences.

SPCH 4346 Business and Professional Communication (3 credits)—A study of communication insights and development of skills to achieve professional competence.

SPCH 4357/5357 Communication in Organizations (3 credits)—A study of communication needs, problems, and practices within various organizations.

SPCH 4366 Communication Ethics (3 credits)—A study of ethical principles of interpersonal and public communication, with special attention to the practice of the communication professions.

SPCH/PUBH 4377/5377 Health Communication (3 credits)—Prerequisite(s): Permission of instructor. A study of the interpersonal, group, organizational, and public communication processes that shape beliefs, decisions, and behavior regarding health, sickness, and health care. The course examines the attitudes and actions of many participants in health communication, including citizens, health professionals, and those engaged in public debate of health issues. Students cannot receive credit for both SPCH 4377 and PUBH 4377.

SPCH 4380 Speech Communication Internship (3 credits)—A supervised experience in an agency, business, church, or other organization in a position that significantly utilizes theories and skills of speech communication.

SPCH 4417/5417 Teaching Secondary Speech and Theatre (3 credits)—May not be applied to major or minor in speech or theatre. A study of speech and theatre teaching methods for the secondary school.

SPCH 4437/5437 Conducting Secondary Speech Program (3 credits)—A study of the co-curricular activities related to the effective curricular offering in the secondary school.

SPCH 4607/5607 Speech Practicum (3 credits, repeatable)—Prerequisite(s): Permission of instructor. A practical study experience with appropriate supportive research. May be repeated.

SPCH 4900 Independent Studies (1-3 credits)—Prerequisite(s): Permission of instructor. Designed to provide opportunities for study in subject matter areas not provided in the regular course offerings. May be repeated.

SPCH 4957/5957 Special Topics in Speech and Theatre (1-6 credits)

Special Education

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.

SPED 3300 Instructional Methodology in Special Education (3 credits)—This course prepares the teacher candidate to design, implement, and evaluate instructional sequences and overall effectiveness of school programs serving learners with special needs. Students learn to incorporate information from assessments into Individualized Educational Program objectives, write, and sequence annual and short-term goals, emphasizing parent involvement, values, and choice, and implement research-supported instructional strategies and practices. Fall

SPED 3322 Early Intervention Strategies for the Exceptional Child (3 credits)—A lecture course designed to relate child development to the social, educational and familial needs of the child with disabilities. This course will cover the various characteristics of young children with special needs and their families, across and within classification. Particular emphasis will focus on how these traits impact on the child's developmental rate, abilities, and sequence. Some intervention strategies will be covered. A field experience in an early childhood program will be required.

SPED 3350 Medical Aspects in Special Education (3 credits)—Prerequisite(s): SPE D 2300. This course provides information on the medical aspects of developmental disabilities. This course will provide students with a general knowledge of the medical conditions more commonly seen in children with disabilities. It will familiarize students with common terminology, medications, procedures, equipment, and interventions used with children with medical complications frequently related to developmental disabilities. Regulation covering teacher responsibilities in regards to medical conditions will be covered. Fall

SPED 3365 Integrating Functional Skills into Curriculum (3 credits)—This course provides curriculum approaches and strategies to enable the student to design, implement, and monitor functional and age-appropriate programs for children and youth with moderate and severe
disabilities in both school and community-based settings. Course content is to include domestic living, community mobility and social instruction, prevocational and vocational training and advocacy to accommodate a viable transition toward independent adult living. Field work is required.

**SPED 3400 Behavior Management for Individuals with Disabilities (3 credits)**—Prerequisite: SPED 2300; Corequisite(s): SPED 3410. A course designed to provide the student with opportunities to learn about and practice various management techniques appropriate for children with disabilities in normal and special settings. Spring

**SPED 3410 Preclinical Experience in Behavior Management (1 credit, may be repeated)**—Corequisite(s): SPED 3400. Preclinical experience in special education is a supervised opportunity for students to gain experience in classroom and other settings which provide direct instruction to children and youth with disabilities. The student will work with the classroom teacher to target classroom behavior problems and develop, implement, and evaluate the effects of interventions for that behavior. Spring

**SPED 3445 Assistive Technology (3 credits)**—Prerequisite: A division to teacher education. This course provides an in-depth examination of the applications of assistive technology for individuals with disabilities as it relates to teaching and learning in special education. Existing research with students with special needs will be reviewed, and new applications of existing and developing technology will be explored. Laboratory work with microcomputer technology will be required. This course meets the requirements for a Technology Intensive. Fall, Spring

**SPED 4237/5237 Educating Persons with Learning Disabilities (3 credits)**—This course addresses the process of assessing, designing, and delivering instruction to students with learning disabilities. Philosophical and practical perspectives will be integrated into a supportive framework of best practices that encompass both diagnosis and intervention. The latest research findings and most current practices in identifying and providing instruction to students with learning disabilities are incorporated. In addition, students are presented with information regarding the specific academic and social areas needed for instruction.

**SPED 4350 Special Education Workshop (1-3 credits)**—Special workshops covering various types of exceptionalities and issues associated with exceptionality.

**SPED 4411 Preclinical Experience in Strategies for Individuals with Severe Behaviors (1 credit)**—Prerequisite: SPED 3400 and admission to teacher education; Corequisite: SPED 4725. Preclinical experience in special education is a supervised opportunity for students to gain experience with children and youth who engage in challenging behavior. The student will work with the classroom teacher and university supervisor to conduct a functional assessment and develop a behavior support plan. Emphasis will be placed on the application of strategies and techniques covered in SPED 4725.

**SPED 4420 Preclinical Experience in Management Strategies for Severe Behavior Disorders (1 credit)**—Prerequisite(s): SPED 3400 and A division to teacher education; Corequisite(s): SPED 4725. Preclinical experience in special education is a supervised opportunity for students to gain experience with children and youth who engage in challenging behavior. The student will work with the classroom teacher and university supervisor to conduct a functional behavior assessment and develop a behavior support plan. Emphasis will be placed on the application of strategies and techniques covered in SPED 4725.

**SPED 4427/5427 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 disorders. An emphasis is placed on characteristics, assessment, and instructional strategies for teachers to use when instructing students who exhibit emotional/behavioral problems. Field experience is required

**SPED 4477/5477 Special Education Assessment (3 credits)**—Prerequisite: SPED 2300. This course covers both formal, informal, curriculum-based diagnostic and assessment instruments. Their usefulness and non-usefulness will be covered. Students will have experience in the administration and scoring of at least one nationally norm-referenced test. Students will complete one case study. Spring

**SPED 4487/5487 Collaboration with Families, Agencies, and Schools (3 credits)**—Prerequisite: A division to teacher education. This course is designed to introduce students to the principles, problems, and procedures of working in collaboration with parents of individuals with disabilities, as well as with agencies and professional organizations involved in the delivery of services to persons with disabilities. The course provides an overview of different approaches, current issues, and problems involved in working in collaboration with families and multiple agencies. Emphasis is placed on serving as a member of a professional team, interviewing and consulting with teachers and parents, and providing leadership in instructional adaptation. Spring

**SPED 4487/5487 Special Education Curriculum (3 credits)**—Prerequisites: SPED 3300 and admission to teacher education. This course provides information on effective curriculum and instructional approaches used to help students with mild disabilities achieve mastery and proficiency in academic skills. Research-based approaches to teaching students with mild disabilities in the areas of reading, content area instruction, and study skills will be covered. Spring

**SPED 4627/5627 Educating Persons with Mental Retardation (3 credits)**—This course discusses a variety of topics related to the field of mental retardation. Specific topics include the following: types, nature, and causes of mental retardation, characteristics of persons with mental retardation, assessment and identification procedures, and instructional strategies relating to the education of persons with mental retardation. Field experience is required

**SPED 4700 Adaptations and Modifications for the Inclusive Classroom (3 credits)**—Prerequisites: SPED 3300 and admission to teacher education. Corequisite(s): SPED 4710. This course is designed to provide the student with skills needed to interpret curriculum guidelines and develop goals and objectives for students with disabilities of all grade levels to function in the least restrictive environment. Students will develop the ability to select and adapt strategies and materials to learning styles of students with disabilities or students identified as being at risk for future learning problems. Research-based approaches to teaching mathematics and written and oral language will be covered. This course meets the requirements for a Writing-Intensive Course. Fall

**SPED 4710 Preclinical Experience in Special Education (2 credits)**—Corequisite(s): SPED 4700. Preclinical experience in special education is a supervised opportunity for students to gain experience in the classroom and other settings which provide direct instruction to children and youth with disabilities. Techniques designed to increase task engagement and facilitate inclusion of students with special needs into the general education classroom will be explored and practiced. Sixty hours of field work is required. Fall

**SPED 4725 Management Strategies for Individuals with Severe Behaviors (3 credits)**—Prerequisite(s): SPED 3400 and admission to teacher education; or consent of the instructor. 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
SPED 4750 Instructional and Transitional Services for Adolescents and Young Adults with Disabilities (3 credits)—Prerequisite(s): admission to teacher education. This course is designed to provide the student with skills to implement a transition program from school to career and daily living for individuals with disabilities, regardless of category of handicap, 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, agency, and business and industrial community. Fall

SPED 4757/5757 Curriculum-Based Assessment (3 credits)—Prerequisites: SPED 4477 and admission to teacher education. This course is designed to help students acquire assessment skills needed to make instructional decisions, monitor progress and promote successful participation in the general education and special education curricula. Classroom-based methods of curriculum, learning, performance, and behavioral assessments will be presented, including data collection, designing and implementing interventions making curricular adaptations, and using data to make instructional decisions. Fall

SPED 4850 Student Teaching in Special Education (12 credits)—Prerequisite(s): A admission to teacher education and student teaching. Student teaching in Special Education is a prearranged, supervised student teaching experience in a special education setting for one semester, leading to licensure in modified and/or comprehensive special education. Over the course of the semester the students will increase their roles in the classroom, culminating in assuming the roles and responsibilities of a fully functioning special educator. Written plans, journal, and student teaching portfolio will be developed and maintained. Placements will be made within a 45-minute radius of ETSU main campus. Fall, Spring

SPED 4957/5957 Special Topics in Special Education (1-6 credits)

Graduate Course Listing
For Descriptions and Prerequisite(s) see the Graduate Catalog

SPED 5001 Critical Issues in Special Education…………………………. (3 credits)
SPED 5010 Introduction to Young Special Needs Children and Their Families……………………………………………………..(3 credits)
SPED 5030 Intervention with Developmentally Delayed Preschoolers…………………………………………………………..(3 credits)
SPED 5040 Interventions with Developmentally Delayed Infants and Toddlers……………………………………………………(3 credits)
SPED 5050 Assessment of Young Children………………………………… (3 credits)
SPED 5060 Professional Seminar in Early Intervention…………………..…(3 credits)
SPED 5237 Educating Persons with Learning Disabilities………………..…(3 credits)
SPED 5250 Special Education Workshop…………………………………..…(1-3 credits)
SPED 5365 Integrating Functional Skills into the Curriculum……………..…(3 credits)
SPED 5410 Preclinical Experience: Behavior Management…………………..(1 credit)
SPED 5427 Educating Persons Who are Gifted………………………………(3 credits)
SPED 5445 Incorporating Assistive Technology into………………….(3 credits)
SPED 5477 Special Education Assessment…………………………………(3 credits)
SPED 5487 Collaboration with Families, Agencies, and Schools……………..…(3 credits)
SPED 5497 Curriculum in Special Education……………………………..(3 credits)
SPED 5500 History, Issues, and Trends in Educating Exceptional Learners……………………………………………………………..(3 credits)
SPED 5560 Advanced Practicum in Special Education……………………(3 credits)
SPED 5627 Educating Persons with Mental Retardation………………………..(3 credits)
SPED 5700 Instructional Techniques for the Inclusive Classroom……………..(3 credits)
SPED 5725 Management Strategies for Severe Behaviors…………………..…(3 credits)
SPED 5750 Transition to Adult Life and the World of Work………………….…(3 credits)
SPED 5757 Curriculum-Based Assessment…………………………………..(3 credits)
SPED 5825 Preclinical Experience in Curriculum……………………………..(1 credit)
SPED 5850 Clinical Experience in Special Education……………………….…(6 credits)
SPED 5957 Topics in Special Education…………………………………….(1-6 credits)

Service-Learning

SRVL 1020 Introduction to Service-Learning in the Community (3 credits)—This course allows the student to study the role of the volunteer and to be involved in service and learning in area agencies in order to provide a bridge between the campus and community populations. Integral components of class time include critical thinking, reflective practices as related to service, and honing the caring capacity of the individual. Emphasis is placed on oral and writing intensives and on familiarizing the student with potential career choices. Requires a 30-hour individual service placement and a group project.

SRVL 2000 Advanced Service-Learning (3 credits)—Prerequisite(s): Completion of SRVL 1020 or instructor permission. A continuation of work of introductory course: group work to produce a project of lasting community impact, area agency tours, and in-depth study of issues.

SRVL 3000 Cherokee Immersion Project (3 credits)—Prerequisite(s): Permission of instructor required; Students must contact instructor for interview prior to registering for courses; Corequisite(s): PHED 2555. Six-week course offered in pre-summer and first session. Students study the history and culture of the Cherokee prior to spending three weeks camping on Qualla Boundary, North Carolina, and participating in service projects designated by the Cherokee.

SRVL 4000 Ecomposition: Reflective Writing in the Field (3 credits)—Prerequisite(s): Permission of instructor. The course will introduce students to a different way of seeing and exploring their world through reflective writing, emphasizing place and the role of humans in that place. Requiring service-learning and travel, the course may be offered in conjunction with other courses. Summer

Surveying and Mapping Science

SURV 1038 Honors Orientation Seminar (1 credit)—Prerequisite(s): Admission to College of Business and Technology or University Honors Program. This course will fully orient the student to the College expectation for an honors student. Discussion and activities will relate to preparation for academic success and developing information technology skills.

SURV 2038 Honors Professional Ethics (3 credits)—Prerequisite(s): Admission to the College of Business and Technology, or University Honors Program, and Sophomore standing. A case-study approach to basic ethical issues likely to confront engineer, computer scientist, family and consumer scientists, geographers and surveyors in their professional practices.

SURV 2550 Surveying Measurement Fundamentals (4 credits)—Prerequisite(s): MATH 1720 or equivalent. Principles of field data acquisition, measurements of distance, angle, and elevation using tapes, transits, and levels. Basic surveying computations of elevations, directions, traverse closures and areas, magnetic directions, preparation of topographic maps from radial measurements, basic measurement error theory. Lectures and field labs.

SURV 2560 Surveying Graphics (4 credits)—Prerequisite(s): One year of technical drawing or equivalent or permission of instructor. Graphical communication in surveying and mapping, fundamentals of projection, map projection theory, 3-D viewing, spatial relationships and viewpoints, tracing, plotting and drafting maps, plats, profiles, cross-sections, sketches for field notes and presentations in technical reports, map accuracy standards, plotting data from field notes, contour theory, computations related to survey drafting.

SURV 3048 Honors Methods of Research (3 credits)—Prerequisite(s): Admission to the College of Business and Technology or University Honors Program. Analysis of the materials and methods of research.

SURV 3510 Engineering and Construction Surveys (4 credits)—Prerequisite(s): SURV 2550; Corequisite(s): SURV 2560, or permission of instructor. Route and construction surveying, instrument adjustment and calibration, use of optical and electronic measuring instruments, large-scale site surveying and mapping, mine surveying, and miscellaneous field surveys. Lecture and lab.

SURV 3520 Land Survey Systems (2 credits)—Prerequisite(s): SURV 2550. The historical development, description, and basic legal land boundary elements related to the land survey systems in the U.S. state plane coordinate systems, deed, plat, and other land boundary-related recording systems, concept of the cadastre.
SURV 3530 Survey Measurement and Computational Analysis (4 credits)—Prerequisite(s): MATH 1910, SURV 3510. Nature of measurement, statistical analysis of random errors in measurements, propagation of errors, survey standards and design specifications, development of coordinate geometry and trigonometric solutions of plane surveying problems, programming hand-held field computers, analysis of errors and mistakes in indirect measurement.

SURV 3540 Surveying Projects (3 credits)—Prerequisite(s): SURV 2560 and SURV 3510; Corequisite(s): SURV 4337, SURV 4547, SURV 4550, or permission of instructor. Projects utilizing principles learned in previous courses, with emphasis on training as group leader and in team participation to analyze and solve surveying field problems arising in surveying practice, planning and execution of projects, field identification of natural and man-made features.

SURV 3550 Advanced Surveying Mathematics (3 credits)—Prerequisite(s): SURV 3530; Corequisite(s): MATH 2010. Mathematical methods used in surveying sciences, weights of observations, precision of indirectly determined quantities, error ellipses, 2-D and 3-D coordinate transformations, least squares adjustments of survey data with applications to observed data with redundant measurements, computer programming of survey adjustments.

SURV 3560 Geodetic Science (4 credits)—Prerequisite(s): MATH 1910, SURV 3510, and SURV 3520. Application of spherical trigonometry to earth measurements, ellipsoids, spheroids, flattening, eccentricity, use of geodetic control, relationship between longitude, latitude, and state plane coordinates, geodetic leveling and traverse, astronomic observations for geodetic control, relationship between longitude, latitude, and state plane, stereoplotters, resection, orthophotos, oblique photos, 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 4550 Automated Surveying and Mapping (3 credits)—Prerequisite(s): SURV 3510, and third-year standing in surveying. Use of computer-aided drafting and mapping from surveyed field data, familiarization with hardware and software available for surveying and mapping computations and drafting, data storage and output from automated devices used in surveying, use of total stations and electronic field data collection systems.

SURV 4567/5567 Positioning with GPS (3 credits)—Prerequisite(s): SURV 3560 or permission of instructor. Course designed to utilize GPS for data collection and post-processing, methods for adjusting networks, explore the reliability of networks, use of continuously operating reference systems (CORS), geometry of satellite constellation, vector processing strategies, the effects of atmospheric constraints on long baselines, use of on-the-fly technology, precise ephemeris generation, and differential corrections.

SURV 4570/5570 Sampling in Surveying (3 credits)—Prerequisite(s): MATH 1920, SURV 4517/5517, or permission of instructor. Use of software to analyze, enhance, and display satellite images from many sources. Project based course to determine needs for land use planning, environmental preservation, and sustainable development. Presentations to local planning departments and other interested parties.

SURV 4900 Independent Study in Surveying and Mapping Science (1-6 credits)—Prerequisite(s): Minimum of nine credits earned in the subject area and approval of the instructor who will supervise the study. A surveying/mapping problem by arrangement with a faculty member. An independent study plan is developed, approved, and then competed. Usually a technical report and laboratory/field experience required.

SURV 4957/5957 Special Topics in Surveying and Mapping Science (1-6 credits)—Special topics of current interest to groups of students concerning content not presented in regular course offerings. May be repeated for credit if materials covered are significantly different or advanced.

THEA 1030 Introduction to the Theatre (3 credits)—A study of the dramatic arts and modes of theatrical production for the understanding and appreciation of the living theatre as a cultural force in society.

THEA 1520 Stagecraft I (3 credits)—An introduction to the tools and materials used in theatrical production.

THEA 1530 Stagecraft II (3 credits)—Prerequisite(s): THEA 1520. An exploration of construction techniques used in theatrical production.

THEA 1800 Theatre Laboratory (1 credit)—Practical directed experience working on a construction and/or running crew for an ETSU Theatre production. Experience can be in scenery, lighting, costuming, makeup, properties, sound, or box office. Type of experience is determined by the instructor.

THEA 2200 Oral Interpretation of Literature (3 credits)—Interpretation and oral performance of poetry, prose, and drama. Includes theory, structure, and style.

THEA 2420 Theatre Design Basics (3 credits)—Prerequisite(s): THEA 1520, THEA 1530. An introductory course in scenery, costuming, and lighting design for the stage.

THEA 2500 Creative Drama (3 credits)—Methods of organizing and developing rhythmic movement, story dramatization, improvisation, and related dramatic activities for children.

THEA 2510 Acting I (3 credits)—An introductory acting terminology and technique course, utilizing exercises, improvisations, research, and scene study.
THEA 2525 Makeup (3 credits)—Lecture and supervised laboratory in makeup for the stage, ranging from enhancement of personal facial features to complexities of age and character makeup.

THEA 2530 Dramatic Structure (3 credits)—Play analysis for the actor, director, designer or teacher of theatre.

THEA 2605 Theatre Practicum (1 credit)—For freshmen and sophomore students only. Prerequisite(s): Permission of instructor through audition. Participation as a performer or stage manager in planning, rehearsal, and performance of an ETSU Theatre production under faculty direction. May be repeated.

THEA 2800 Theatre Laboratory (1 credit)—Practical directed experience working on a construction and/or running crew for an ETSU Theatre production. Experience can be in scenery, lighting, costuming, makeup, properties, sound, or box office. Type of experience is determined by the instructor.

THEA 2999 Cooperative Education (1-3 credits)

THEA 3330 Scenic Design (3 credits)—Prerequisite(s): THEA 1520. A studio course in scenic design, covering the basic concepts of scenic design analysis and the creation of technical drawings for realizing scenic design. Students will also learn rendering and model building techniques.

THEA 3335 Lighting Design (3 credits)—Prerequisite(s): THEA 1520. Interpreting visual needs of scripts into lighting and color designs and translating designs to paper.

THEA 3345 Costume Design (3 credits)—Prerequisite(s): THEA 1520; THEA 1530; THEA 2520. A technology intensive studio course in costume design for the theatre which emphasizes play script analysis, the process of collaboration, research rendering techniques (traditional and computer generated), as well as the study of working designers both past and present.

THEA 3400 Acting for the Camera I (3 credits)—Prerequisite(s): THEA 2510. Acting techniques used in movies, television, industrial films, and commercials.

THEA 3435 Acting for the Camera II (3 credits)—Prerequisite(s): THEA 2510 or RTVF 2600. Acting Techniques used in television and film.

THEA 3500 Voice and Diction (3 credits)—Improvement in individual speaking voice. Emphasis on articulation, correct breathing, vocal quality, and diction. Working for a standard American stage dialect.

THEA 3510 Acting II (3 credits)—Prerequisite(s): THEA 2510. Building characters The Stanislavsky System utilizing exercises, improvisations, research, and realistic scene work.

THEA 3512 The Audition Process (3 credits)—Prerequisite(s): THEA 2510. Creating audition pieces, developing techniques for cold readings, developing resume, and understanding proper conduct at auditions and interviews.

THEA 3515 Theatre Movement (1 credit)—Development of the actor's expressive skills, with particular attention to physicality, breath, gesture, and spatial awareness through movement and stage combat exercises.

THEA 3520 Theatre History I (3 credits)—A study of the development of theatrical art through the Restoration and the 18th century in England, its role in the history of civilization, and its relation to other arts in society.

THEA 3525 Theatre History II (3 credits)—A study of the development of theatrical art from the 18th century, its role in the history of civilization, and its relation to other arts in society.

THEA 3530 Play Direction (3 credits)—Prerequisite(s): THEA 2510 and THEA 2530. Basic principles of staging, picturization, composition, focus, movement, text analysis, directorial scoring, and actor/director relationships.

THEA 3535 Musical Theatre History (3 credits)—This writing intensive course will examine the history of American Musical Theatre, focusing on mid-1800 to the present. Attention will be given to the historical influences of the American Musical Theatre, the development of the various genres of American Musical Theatre, as well as to the development of the elements of modern American Musical Theatre—the book, the lyrics, the score, the dance, and the design.

THEA 3625 Advanced Stage Makeup (3 credits)—Prerequisite(s): THEA 2525. An advanced studio course emphasizing the principles, theories, and techniques of three-dimensional theatrical makeup. The techniques of producing plaster face casts and foam latex prosthetics will be explored.

THEA 3800 Theatre Laboratory (1 credit)—Practical directed experience working on a construction and/or running crew for an ETSU Theatre production. Experience can be in scenery, lighting, costuming, makeup, properties, sound, or box office. Type of experience is determined by the instructor.

THEA 4018 Honors Thesis (3-6 credits)—Open to those in university honors programs only. A capstone experience serving as the culmination of an honors curriculum.

THEA 4417/5417 Teaching Theatre in Grades K-12 (3 credits)—A study of methods and materials for teaching theatre in elementary and secondary schools.

THEA 4527/5527 Advanced Scenographic Design (3 credits, repeatable)—Prerequisite(s): THEA 1520, THEA 3330, and THEA 3335. The study of theatrical design principles and appropriate play analysis. May be repeated under each of the following areas: scenery, lighting, and costuming.

THEA 4537/5537 Advanced Play Direction (3 credits)—Prerequisite(s): 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 4607/5607 Theatre Practicum (1 credit)—Prerequisite(s): Junior, senior or graduate status—only, permission of instructor through audition. Participation as a performer or stage manager in planning, rehearsal, and performance of an ETSU Theatre production under faculty direction. May be repeated.

THEA 4637/5637 Theatre Management (3 credits)—Procedures used in stage, house, and business management of a theatre operation.

THEA 4647/5647 Theatre Architecture and Design (3 credits)—Prerequisite(s): THEA 1520 and THEA 3330, or permission of instructor. This course will survey the changes in the theatre architecture for the 5th century, B.C. to the present. Students in this course will learn about modern facility design practices and projects and federal and state laws that affect the design of both new facilities and renovation of existing facilities.

THEA 4707/5707 Theatre Internship (3-9 credits)—Prerequisite(s): Permission of department chair and concurrence of host theatre. Experience in professional nonacademic theatre under supervision of professional staff. Interns may work in a single area of specialty or in rotation throughout host theatre's operation and may contract for single term or academic year.

THEA 4800 Theatre Laboratory (1 credit)—Practical directed experience working on a construction and/or running crew for an ETSU Theatre production. Experience can be in scenery, lighting, costuming, makeup, properties, sound, or box office. Type of experience is determined by the instructor.

THEA 4857/5857 Period Acting Style (3 credits)—Prerequisite(s): THEA 2510. Acting styles from ancient Greece through Restoration, utilizing language, research, scene work, movement, and masks.

THEA 4867/5867 Summer Theatre Performance (3 credits)—Prerequisite(s): Permission of instructor through audition. Participation in rehearsals and performance of an ETSU Summer Theatre production under faculty or guest artist direction.
URBS 4637/5637 Local and Regional Planning (3 credits)—Theories and techniques of planning for small cities, metropolitan areas, and geographic regions.

URBS 4905 Urban Studies Internship (3 credits)—Prerequisite(s): Completed a minimum of six credit hours at the upper-division level in the student’s major; junior or senior standing, and at least a 2.7 GPA. Students are selected through a competitive process for assignments in approved business or public sector organizations as interns under the supervision of the internship coordinator and field placement supervisors. Students may not earn more than three semester credits for this course which can be used as a free elective or an elective within a business major with prior approval by the chair.

Women’s Studies

WMST

WMST 2010 Introduction to Women’s Studies (3 credits)—This introduction to the interdisciplinary academic field has a triple focus: integrating information about women’s contributions to culture and history into the curriculum, uncovering and understanding structures of oppression (gender, race, and class), and exploring possibilities for change. Topics for reading and discussion will be drawn from material on social structures, law, language, history, religion, philosophy, the healing professions, and the arts. Articulating questions and points of view regarding issues related to gender is stressed.

WMST 2020 Women in Global Perspective (3 credits)—Emphasizes diversity of women’s experience in non-western, non-industrialized societies. Concentrates on women’s participation in, interaction with, and resistance to patriarchal structures that inhibit economic, political, and human rights for women.

WMST 3330 Feminist Thought and Practice (3 credits)—Prerequisites: WMST 2010 or WMST 2020. Explores a variety of theoretical frameworks for studying women and gender and links feminist theory to social action and civic responsibility.

WMST 4080 Women’s Studies Internship (3 credits)—Prerequisites: WMST 2010, senior standing, and director approval. All students must attend a mandatory orientation meeting and turn in a completed internship permission form before working any hours on site. Supervised professional, non-profit, civic group, or other social justice work experience that synthesizes the student’s program of study.

WMST 4500 Women’s Studies Senior Capstone (3 credits)—Prerequisites: WMST 2010 and WMST 2020. A synthesis course through which students draw from their individual courses of study to develop and pursue social justice, professional, and/or advanced educational objectives.

WMST 4950 Issues in Women’s Movement (3 credits)—Prerequisite WMST 2010 or WMST 2020. Studies of various themes and issues related to women’s social movement(s). This course may be repeated under different subtitles.
**Regents Online Degree Program (RODP)**

**ACC 1104 Principles Of Accounting 1 (3 credits)**—Prerequisite(s): Students should have the reading and writing skills appropriate and expected of college-level students. In addition, students should possess basic math skills including the ability to solve simple algebraic equations. This is part of one of a two-course sequence. This course will cover the basic principles of accounting; teaching the basic principles of analyzing transactions, recording them in a general journal, posting them to the general ledger, and preparing the basic financial statements. This course is fully transferable.

**ART 1030 Art Appreciation (3 credits)**—The overall purpose of this course is to provide the student with a basic understanding of the visual arts. The first half of the course deals with the nature of art, the evaluation of art, the processes and materials of art. We examine the formal elements of design and look at a wide variety of both two- and three-dimensional art to learn about the processes and tools involved in its creation. The second half of the semester is spent in a (more or less) chronological study of world art in its cultural setting from the prehistoric to the contemporary. The course is divided into 12 segments, presented as Lessons 1-12. Each lesson represents the equivalent of 4 hours of class time. The student is expected to spend a minimum of 4 additional hours to complete the assignments for each unit. Each unit must be completed before the student may advance to the next level.

**BIOL 1010 Biology I and Lab (4 credits)**—Prerequisite(s): Students must be eligible for enrollment in English 1010 and D SM 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 prokaroytes and the kingdom Protists.

**BIOL 1020 Biology II and Lab (4 credits)**—Prerequisite(s): Completion of or exemption from DSPW 0800 and DSPM 0800. This course introduces the student to the diversity of life on earth, looking in more detail at the fungi, plants and animals. The structure and function of flowering plants is reviewed. Animal anatomy (tissues, organs and organ systems), physiology, reproduction and development are covered with an emphasis on humans. The final section of the course covers the principles of ecology.

**BIT 1150 Introduction to Microcomputers (3 credits)**—Prerequisite(s): You must have basic typing skills to produce your work in a timely fashion. You must have access to a Windows-based computer with an Internet connection, Microsoft Windows 95 or higher, Microsoft Internet Explorer browser software, a personal e-mail account, and the software used in the class (Office XP). A course designed to introduce students to Windows and Office XP. The course will use the following packages in Office XP: Microsoft Word 2002, Microsoft Excel 2002, and Microsoft PowerPoint 2002. In addition, students will have an introductory section on computer hardware/software concepts and Windows file management.

**BMGT 3630 Human Resources Management (3 credits)**—Prerequisite(s): BMGT 351 or General Business Management Course. Managing human capital in the new economy is a challenge all business professionals face. This course addresses that challenge by retaining its unique orientation to overall practicality and real-world application incorporating technology, teams and virtual learning methods. Practical tips and suggestions provide effective ways of dealing with problems in communication, leadership, discipline, performance appraisal, labor relations, and compensation administration.

**CIS 113 Programming In Visual Basic (3 credits)**—Prerequisite(s): Because this is an online course in computer programming, it is important for the student to have completed a basic computer literacy course (e.g., CIS 100, BIT 1150) or receive permission of instructor, work well independently, be self-motivated, be computer savvy and feel VERY comfortable getting around on the computer (Words like FTP, bulletin board and Real Player don’t sound foreign to you.), have the ability to troubleshoot their own computer problems, any computer programming experience is helpful but not necessary. An introduction to Microsoft Visual Basic. Topics to be covered include event-driven programming, interface design, creating menus and dialog boxes, writing event and general procedures, and using operating system services.

**CIS 186 Database Programming (3 credits)**—Prerequisite(s): CIS-113 V isual Basic Programming or the equivalent. This course is designed to enable students to develop customized database applications. Subsequent to a brief survey of relational database techniques and methods, the emphasis will be on developing the necessary skills to design, create, and implement user-friendly front ends for relational databases. Using a database engine such as Microsoft Access 2000, the course will concentrate on developing and coding procedures using VBA (Visual Basic for Applications).

**CIS 263 Web Page Development and Design (3 credits)**—Prerequisite(s): CIS 151 Microcomputer Applications. This course will cover the fundamental concepts of the Internet and World Wide Web, including how the Internet works, protocols and services, addressing and routing in the Internet. Students will design and create web pages using web page editing/publishing software and create and edit graphic images for web pages using image editing software. Use of simple Java applets will be covered and some Javascript scripts will be written for web pages.

**CIS 1610 Programming in C++ (3 credits)**—Prerequisite(s): The student should have some background and understanding of computing and the use of information systems in society. A prior course in a programming language such as Visual Basic or Java is useful, but not required. An introduction to computer software concepts using C++. Algorithms, problem-solving methods, systems development and implementation methodologies are addressed. Standard programming constructs such as simple data types, assignments statements, use of subprograms, loops, conditional statements, arrays, records, classes, abstract data types, and object-oriented programming concepts are emphasized. In addition, a limited number of advanced concepts such as pointers, recursion, and C# are discussed. The student will write short segments of C++ code that demonstrates command and understanding of the above concepts.

**CMT 1010 Networking and PC Communications (3 credits)**—Prerequisite(s): Prior to enrolling in this course, students should be able to use their computers and access the Internet. In addition to browsing the web, students should have a basic understanding of computers and be able to send e-mail. This course introduces basic concepts of PC communications, telecommunications and networking. It provides an overview of terminology and technologies used with local area networks (LANs) and wide area networks (WANs). In addition, it details processes, protocols, network design and a broad overview of the Internet.

**COL 101 The College Experience: Online (2 credits)**—Prerequisite(s): This course is for first-time online learners who are willing to learn. In this course, we will study the best practices for success in college and learning online by using technology smartly, succeeding in workplace situations skillfully, using interpersonal communications respectfully, and developing self-management practices expertly.

**COMM 3010 Integrated Corporate Communication (3 credits)**—Prerequisite(s): COMM 1200, COMM 1400, Junior status, or instructor approval. Students examine important corporate communication areas such as internal communication, advertising, public relations, integrated marketing communications, and new communication technologies. The course focuses on how these areas work together to achieve organizational objectives.

**CS 3700 Software Analysis and Design (3 credits)**—Prerequisite(s): Proficient with programming in at least one language (C/C++/Java) is required. Refer to course syllabus for additional requirements. Practical and Professional Issues in Computer Science, Design of Algorithms, Foundations of Computer Science. The course teaches students various stages of software development. Topics include software systems analysis, software...
CSCI 3222 Database Management Systems (3 credits)—Prerequisite(s): A prior course covering computer-literacy topics (Use of MS-W indows, use of an M-S Office application such as Word, Excel, or Front-Page) to ensure the student can focus on learning the database topics without being distracted by also having to learn the Microsoft interface paradigm. This course will give the student a basic overview of Relational Database Systems and Relational Database Design. The student will acquire a working knowledge of Microsoft ACCESS and the ISO standard SQL language. Students will work individually on a series of small projects, and one larger project encompassing all phases of database design and implementation.

CST 209 Java Programming I (3 credits)—Prerequisite(s): Because this is an online course in computer programming, it is important for the student to: have completed a basic computer literacy course (e.g., CIS 100, BIT 1150) or receive permission of instructor, work well independently, be self-motivated, be computer savvy and feel very comfortable getting around on the computer (words like FTP, bulletin board, and Real Player don’t sound foreign to you), and have the ability to troubleshoot their own computer problems. A ny 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. A pplets are explained and implemented.

DSPM 0800 Elementary Algebra (4 credits)—Prerequisite(s): Basic Mathematics or demonstrated proficiency on the placement examination. Fundamentals of elementary algebra: operations on real numbers, evaluation and simplification of expressions and formulas, solution of first-degree equations, ratio and proportion, applied problems, operations on polynomials, factoring, exponents, roots, radicals, and complex numbers.

DSPM 0850 Intermediate Algebra (4 credits)—Prerequisite(s): Completion of elementary algebra, DSPM 0800, two years of high school algebra, or recommendation of advisor. This course is final preparation for college-level mathematics. The student learns tools of intermediate algebra through completing homework assignments, quizzes, participating in discussions, taking exams, and using outside links to tutorial sites.

DSPR 0800 Developmental Reading (4 credits)—Prerequisite(s): Basic Reading or appropriate score on the college placement test. This course is designed to enable college students to become more aware of themselves as readers and to develop strategies and skills to meet the demands of college reading.

DSPS 0800 Learning Strategies (3 credits)—Prerequisite(s): A prerequisite score on college entrance test. This course offers students an introduction to college. It emphasizes study methods and techniques for beginning students. Study strategies are suggested for reducing anxiety, improving memory and concentration, managing time, taking notes from texts and lectures, and preparing for and taking tests.

DSPW 0800 Developmental Writing (4 credits)—Prerequisite(s): A prerequisite score on college entrance exam. This course is designed to give students the basis for writing a well-organized and cohesive essay. The emphasis of the course is on writing as a process. Along with the writing process, students will learn grammar and mechanics.

ECON 2030 Survey of Economics (3 credits)—Prerequisite(s): D SP 0700, DSPR 0800, DSPW 0800. This course is a survey of economics. It is designed as a beginning economics class. The course covers how modern economics evolved, supply and demand, national income accounting, money and banking, market structures and contemporary economic issues. Both macroeconomic and microeconomic principles are covered.

ELED 4260 Teaching and Internet Technology (3 credits)—Prerequisite(s): Junior, Senior, or Post-Baccalaureate status. Internet technologies connect students and teachers to innovative learning projects, multimedia-interactive information and activities, virtual classrooms and information from around the world. Students and teachers must acquire both the knowledge and technical aspects of how to integrate the Internet into their learning environments.

ENGL 1010 English Composition I (3 credits)—Prerequisite(s): Satisfactory ACT or placement test scores. This course is designed to give students the foundation of paragraph writing and development of essays by various rhetorical patterns; reading and discussion of selected essays, short stories, and poems; introduction to writing about literature; basic introduction to research and documentation.

ENGL 1020 English Composition II (3 credits)—Prerequisite(s): ENGL 1010. A composition course in argumentative writing, including invention, organization, style, and revision. Critical reading and thinking will be addressed though students’ writing. Research skills and documentation will be introduced.

ENGL 2110 American Literature: Colonial Period Through the Civil War (3 credits)—Prerequisite(s): ENGL 1010. Survey of American literature from the time of European colonization through the Civil War. Examines the works of significant writers of fiction, poetry, and non-fiction, taking into account the events in American history that influenced them.

ENGL 2410 Western World Literature I (3 credits)—Prerequisite(s): ENGL 1010 and ENGL 1020. A survey of selected masterpieces of Western World literature: Ancient, Medieval, Renaissance.

ENGL 3134 Computers, Writing, and Literature (3 credits)—Prerequisite(s): Students must have access to a recent-model PC with “24/7” Internet access, an established e-mail account, motivated, and self-directed learners. What are the connections among computers, writing, and literature? That’s the focus of this course - the implications made by the Internet and computers for writing, literacy, and uses of text. We’ll begin by examining a variety of texts available in full or in part on the Internet; then we’ll proceed to the rhetorical and technical aspects of these texts; and we’ll conclude with the production, in HTML, of student text resources. Format and layout of documents (whether they’re prepared in HTML or as word-processed texts) are important aspects of this course, and will be considered among the graded activities and in the broader context of good writing.

ENGL 3250 Professional Communication I (3 credits)—Prerequisite(s): ENGL 1010 and ENGL 1020. This course is designed to introduce you to various kinds of technical and professional writing. During the course, you will become familiar with technologies of business communication, receive feedback from and provide feedback to others on writing drafts and revisions, learn about the concept of “genre” and its application to technical and professional writing, and discover the role rhetoric plays in effective technical communication. Because this course is an online course, we will learn and experience ways to communicate effectively using e-mail and the Internet, including evaluating web site design, the rhetoric of e-mail, the dynamics of online discussions, and particularly audience awareness and communication through technology. The course will go beyond writing itself to encompass graphics and ways they are used to create appropriate interfaces for communicating in computer environments. Throughout the course, rhetoric will be emphasized as an overarching concept essential for communicating in technological environments, both educational and professional.

FACS 4547 Corporate Etiquette (3 credits)—Prerequisite(s): Junior or Senior standing. Students will benefit the most when taking this course within two semesters of graduation. To learn skills which will help in obtaining a job, advancing to a higher position, making career changes, and practicing professional conduct on the job. Topics include communications, appropriate business attire, resume writing, interviewing, winning and dining in corporate America, international business customs, and up-to-date business etiquette. Students will learn how to handle business situations that will lead into the 21st century. Activities include: time log analysis, cover letter and resume development, mock interviews, human resources interviews, and international business projects.
HIST 2020 American History II (US) (3 credits)—Prerequisite(s): HIST 2010. This course covers American civilization from the end of Reconstruction to the recent past. The course seeks to give students a perspective on the position of the United States among the nations of the world and on the controversies and agreements among Americans concerning the desired attributes of their culture, government, and ideals. The course will focus on central themes and issues in the development of American society and institutions. It will raise questions about human values, economic growth, institutional change, cultural development, political democracy, and the place of the United States in the world. Themes that we will address in this course include: industrialization and its effects on American society, economy, and political processes; immigration, urbanization, and the changing demographics of the United States; Progressivism and the struggle for social justice; change and continuity in the U.S. foreign policy; World War I; social changes in the 1920s; the Great Depression and the New Deal; World War II; post-war affluence and social change including the Cold War; anti-communism, and civil rights; the Vietnam War and the Great Society; and the political realignment of the Reagan years and other historically recent events.

HIST 2030 Tennessee History (3 credits)—Prerequisite(s): The student should be able to read and write at college level and navigate on the web. A survey of the geographical background, peoples, political life, and economic and social development of the state. This development is traced from the earliest beginning of the state to the present.

HMSE 1100 Concepts of Fitness and Wellness (3 credits)—Stressing individual responsibility for achieving optimal well-being, this course emphasizes preventive health practices which promote healthful lifestyles and reduce risk factors associated with disease.

INFS 3700 Introduction to Systems Analysis and Design (3 credits)—Prerequisite(s)/ Corequisite(s): Working knowledge of some type graphic tool (i.e. PowerPoint). This will be used for any type modeling done in the course. Management of Information Technology (PTMA 3020). This course will provide the students with the basics of information systems components and vocabulary. In this course, students will explore and become familiar with various concepts, principles, and stages of computer-based information systems analysis and design. Students will be exposed to and learn about the groups of people involved in systems development and the different methods, tools, and techniques used in systems analysis and design. Feasibility study, requirements definition and design and development documentation will be covered. The system development life cycle, prototyping, data modeling, and user involvement will also be covered.

INTC 1050 Computer Graphics and Animation (3 credits)—Prerequisite(s): Introduction to Computers or equivalent. A course designed to introduce the concepts of computer graphics creation. The course will use the software Ulead Photolmpact 7.0. This course is designed to teach computer graphics creation to students with no prior graphics background.

JOUR 3400 Introduction to Public Relations (3 credits)—Introduction to Public Relations is a survey of the public relations discipline including the professional foundation of ethics, law, and theory as well as the process, audiences, and professional practice areas. As a student in this course you can expect to learn this foundation allowing you to move on through more advanced professional practice courses in public relations; however, with this foundation you should have good understanding of the discipline, why it is important, and how to do basic public relations functions.

MATH 1130 College Algebra (3 credits)—Prerequisite(s): Two years of high school algebra and an acceptable placement score or DSPM 0850. A course designed primarily for students majoring in non-science degrees. Topics include functions and graphs, linear and quadratic equations, inequalities, polynomials, rational expressions, exponents, radicals, systems of equations and exponential and logarithmic functions.

MATH 1530 Probability and Statistics (3 credits)—Prerequisite(s): Two years of high school algebra and an acceptable placement score or DSPM 0850. An introduction to elementary methods and techniques. Topics include sampling, frequency distributions, elementary probability, discrete and continuous probability distributions, interval estimation, hypothesis testing, and simple correlation. Intended primarily for business majors.

MGMT 3610 Principles of Management and Organizational Behavior (3 credits)—Prerequisite(s): Junior status. This is the introductory course in management. The course is designed to provide students an overview of the management function and its role in organizations and society.

MUS 1030 Music Appreciation (3 credits)—An introduction to the basic elements of music combined with a survey of Western art music.

PADM 3601 Introduction to Public Administration (3 credits)—Prerequisite(s): There are no formal prerequisites for this course, however, it is strongly recommended that students have completed a freshman-level course in American Government. Set within the context of contemporary political, social, economic, and administrative realities, this introductory course in public administration explores responsive, equitable, effective, efficient, and accountable governance processes, policies, and institutional-base programs. It examines, from a multidisciplinary perspective, those essential competencies, values, and issues important to public service organizations and the importance of public policy at the local, state, national, and international levels.

PISI 435 International Law (3 credits)—Prerequisite(s): There are no prerequisites for this course. It would be beneficial if students had some background in international relations but this is not a requirement for enrolling in the class. Those students who have not taken any international relations classes should inform the instructor and will receive a short list of supplemental reading materials. This course introduces the student to the basic legal concepts and principles governing state behavior in the international order, the nature and sources of international law, international agreements, sovereignty of states, and recognition of statehood, jurisdiction, immunities, and responsibility. Current events in the international system are also examined with an international law perspective.

PM 4120 Organizational Theory and Behavior (3 credits)—This course is designed to expose the student to the fundamental principles with which to understand human behavior inside public organizations. The course examines various theories developed in an attempt to explain and predict employee behavior in an organizational context.

PSY 101 General Psychology I (3 credits)—Prerequisite(s): Reading and writing proficiency appropriate for college-level coursework. This is an introduction to psychology course. This course is designed to provide an overview of the field of psychology and human behavior. Topics include: philosophical perspectives, history, biology, learning, personality, behavioral biology, development, motivation, emotion, abnormal behavior, theories, and therapies.

PSYC 3590 Psychology of Personality (3 credits)—Prerequisite(s): Introductory Psychology is recommended but not required. This course is designed to provide students with a critical overview of personality theory, research, assessment, disorders, and therapy. The course will take a scientific approach to the study of personality. This means that we will devote a good deal of attention to current theoretical and research approaches. Classic theories of personality will also be covered. This is primarily a course on the varieties of “normal” personality functioning rather than aspects of abnormal psychology. Students will have several opportunities to complete examples of personality measures during the course.
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PTMA 3020 Managing Information Technology (3 credits)—Prerequisite(s): A OM 2110, CSC 1000, MIS 1100, A OM 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.

SOC 3350 Social Statistics (3 credits)—This course is an introduction to statistical techniques commonly used in the analysis of data from many sources. Emphasis is placed on the assumptions, restrictions, and uses of various methods of analyzing data rather than on the mathematical derivation of formulae.

SOC 451 Introduction to Social Research (3 credits)—Prerequisite(s): Include Introduction to Anthropology, Psychology, Political Science, Sociology, or other social science. While not a prerequisite, some background in social statistics is suggested. An introductory social science course (preferably Sociology) is an important prerequisite because it introduces students to social research subject matter; and the theoretical perspectives and research techniques used in social research. An understanding of social statistics will help students better understand and critique existing social science research. Social research is the foundation for the scientific understanding of social phenomena. This course introduces students to the theory and methods of social research. Although the course content focuses on sociology, the research methodology covered in this course is applicable to other social science disciplines (and science in general). Students can expect to learn the entire process for conducting scientific research and evaluating research conducted by other researchers. Course activities involve library research (this can be accomplished online), practical assignments that lead to the development of research skills and a research proposal, and participation in discussion groups to practice research communication skills.

SOC 1010 General Sociology (3 credits)—Prerequisite(s)/Corequisite(s): Students must be able to read and write at the college level. Students will be expected to write and express themselves in good grammatical, concise, and Standard English. Poor grammar will affect your participation in group discussion and the written homework assignments. Grades will be based on writing skills, presentation, thoroughness, and timeliness. The purpose of this course is to introduce you to theoretical approaches of sociology. This course will emphasize the subject areas below: Culture, gender, socialization, race and ethnicity, groups and organizations, economics and politics, social interaction, family and religion, deviance, education and medicine, global and social stratification, population and urbanization, sex, environmental concerns. We will also discuss theories and methods of sociological research.

SP 110 Fundamentals of Public Speaking (3 credits)—Prerequisite(s): ENG 1010. An introductory public speaking course stressing the organization and presentation of the extemporaneous speech in a variety of settings. The goal of this course is to incorporate the typical speaking assignment into situations students might face in their personal and professional lives.

SPAN 1010 Beginning Spanish I (3 credits)—Prerequisite(s)/Corequisite(s): N one, 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/auditory questions requiring the student to translate spoken statements.

SPAN 1020 Beginning Spanish II (3 credits)—Prerequisite(s)/Corequisite(s): Complete SPAN 1010. The student should be able to use a computer and browse the Internet. Spanish II will cover from Chapter 6 to Chapter 10 located in Spanish 102, Puntos de partida. Dr. Barriga will help you with the pronunciation, and you will be responsible for understanding, remembering, and using the grammar, vocabulary, and cultural readings taught in all chapters.

SPAN 3550 Latin America: The Countries and the Peoples (3 credits)—Prerequisite(s)/Corequisite(s): There are no prerequisites for this course. No knowledge of Spanish is required. This course is an introduction to Spanish-speaking Latin America. It will examine the commonalities as well as the unique national experiences of the Spanish-speaking countries of Latin America. The course will address the social, political, and economic factors that have shaped modern Latin America. Initial units will provide general information on the region and its history. Subsequent units will examine individual countries with a focus on Mexico, Cuba, Central America, Peru, Argentina, and Chile. No knowledge of Spanish is required. The course is taught entirely in English.

SW 3170 Family Caregiving (3 credits)—Prerequisite(s): SOC 101 or PSY 141. Issues to be examined will include: who are caregivers, gender roles, managing family stress, respite care, establishing support groups, the cost of caregiving, finding local resources, legal challenges, differential caregiving tips for various illnesses, disabilities from infancy to old age, emerging trends and long distance caregiving.

SW 3200 Cultural Diversity (3 credits)—This course is designed to expand the students’ awareness of both the cognitive knowledge and skill necessary to effectively interact with and/or serve culturally diverse populations. This course will particularly emphasize attitudes and competencies that are important in effective professional relationships. The course will not be exhaustive in its discussion of diverse populations, but will focus on those whose diversity is cultural and who are more likely to be encountered by the students taking the course. Students will be asked to select one of the listed cultures for an in-depth study. Student will be expected to be consistently involved in discussions, learning projects, writings and readings related to that culture.

WEB 2811. Advanced Computer Graphics (3 credits)—Prerequisite(s)/Corequisite(s): A practical knowledge of how the Internet operates, HTML code, graphic formats, web site building, web page design, and an introductory knowledge of a computer graphics program is required. These pre- and co-requisites may be obtained through these courses: INT 1050 - Computer Graphics (RODP); or GMT 2801 - HTML Coding; 2802 - Web Graphics, 2803 - Web Site Design (PSTC); or CSIT 2470 - Internet and New Hardware Software Products; or COMN 1000 - Beginning HTML (NSTI), COMN 1010 - Basic Web Design (NSTI) and COMN 1050 - 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 ARTS AND SCIENCES

al-Imad, Leila (1987) Associate Professor History
B.A., 1970, Beirut College for Women, Beirut, Lebanon;
M.A., 1973, American University of Beirut;

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.

Dean, College of Arts and Sciences
B.Sc., (1976) and Ph.D., (1976), University of Glasgow, UK.

Antkiewicz, Henry J. (1988) Professor History
Ph.D., 1976, Ohio State University.

Bach, Bert C. (1994) Professor English
Provost, Vice President for Academic Affairs
Ph.D., 1966, New York University.

Baggett, Paul (2002) Associate Professor Chair, Social Work
B.S.S.W., 1981, Losch Haven University;
M.S.W., 1983, University of Georgia;
Ph.D., 1994, University of Tennessee-Knoxville.

Bailey, Roger C. (1973) Professor Psychology Faculty Emeritus
B.A., 1964, Concord College;
M.A., 1965, West Virginia University;
Ph.D., 1973, Oklahoma State University.

Battista, Andrew C. (1984) Associate Professor Political Science
B.A., 1973, Miami University;

Baxter, Colin F. (1971) Professor Chair, History
B.S., 1961, East Tennessee State University;
Distinguished Faculty Award, 1995.

B.A., 1976, Florida International University;
M.S., 1977, Florida State University;
Ph.D., 1981, University of Florida.

Blackman, Mary Dave (1977) Associate Professor Music
B.A., 1978 and M.M.Ed., 1984, University of South Carolina;
Ph.D., 1989, University of Texas-Austin.

Blaustein, Richard J. (1970) Professor Sociology and Anthropology
B.A., 1966, Brooklyn College;

Boland, James W. (1992) Professor Mathematics Director, University Honors Program
B.S., 1981, Worcester Polytechnic Institute;
M.S., 1987, University of Central Florida;
Ph.D., 1991, Clemson University,
Distinguished Faculty Award, 1996.

Brasel, Michael C. (1977) Professor Criminal Justice and Criminology
B.A., 1969, Mercer University;
M.A., 1970, West Georgia College;
Ed.S., 1973, University of Georgia;
Ph.D., 1975, University of Southern Mississippi.
ETSU Distinguished Faculty Award, 2003.

Brewster, Karen (2000) Assistant Professor Communication
B.A., 1973, East Tennessee State University;

Briley, John D. (2001) Associate Professor Political Science

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;

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.

Burgess, William Douglas Jr. (1986) Professor History
B.A., 1968, Florida College;
B.A. 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;

Butler, Nickolas M. (1994) Assistant Professor Mathematics

Cajka, Karen (2004) Assistant Professor English
B.A., 1988, University of Pennsylvania;
M.A., 1996, Northeastern University;
Ph.D., 2003, University of Connecticut.

Cantrell, Peggy J. (1982) Professor Psychology
B.S., 1978, Virginia Commonwealth University;
M.A., 1979 and Ph.D., 1982, University of Southern Mississippi.

Caton, Benjamin D. (1972) Professor Music
B.S.M.E., 1968, East Tennessee State University;

Cavender, Anthony (1988) Professor Sociology and Anthropology
B.A., 1971, Belmont College;

Cecil, David (2004) Assistant Professor Social Work
B.A., 1994 and M.S.W., 1998, University of Kentucky;
Ph.D., 2004, University of South Carolina.

Champouillon, David (2000) Associate Professor Music
A.A.S., 1979, Onondaga Community College;
B.M., 1987, University of Miami;
M.A., 1988, Eastern Illinois University;

Chen, Weixing (1995) Professor Political Science
B.A., 1982, Shandong University, China;
M.A., 1986, College of International Relations, China;
Ph.D., 1992, Northern Illinois University.
ETSU Distinguished Faculty Award, 2003.

Close, David M. (1978) Professor Chair, Physics, Astronomy, and Geology
A.B., 1964, Franklin and Marshall College;
M.S., 1967, West Virginia University;
Ph.D., 1973, Clark University.
ETSU Foundation Research Award, 1988.

Clements, Andrea D. (1995) Associate Professor Psychology

Cody, Michael A. (2001) Associate Professor English
B.A., 1993, University of North Carolina-Asheville;
M.A., 1995, Western Carolina University;
Ph.D., 2000, University of South Carolina.
East Tennessee State University

Cole, Mary E. (Betsie) (2002) Instructor ..................... Sociology and Anthropology

Collins, Lattie F., Jr. (1965) Professor ......................... Physics, Astronomy, and Geology
B.A. 1960, Huntingdon College;

Copp, Martha (1993) Associate Professor ..................... Chair, Sociology and Anthropology
B.S., 1984, Texas A&M University;

Corso, Joseph W. (1974) Assistant Professor .................. Political Science
B.S., 1984, Loyola University;
M.A., 1986, University of Notre Dame;
Ph.D., 1973, University of Missouri.

Cox, Mary Ellen (2004) Assistant Professor ..................... Social Work
A.S., 1981, Cleveland State Community College;

Crofts, Thomas H. (2004) Assistant Professor .................. English
B.A., 1990, Bard College;
M.Phil., 1992, Trinity College, Dublin;

Cronin, Patrick J. (2001) Associate Professor ................ Communication
B.A., 1963, LaSalle University;
M.S., 1968, Temple University.

Crowe, Martha B. (1965) Assistant Professor .................. English
A.B., 1963, King College;

Cutspec, Patricia A. (2004) Assistant Professor ............. Communication
B.A., 1992, Grove City College;
M.A., 1984, University of Hartford;
Ph.D., 1988, Purdue University.

Dalton, Bruce O. (2003) Assistant Professor ..................... Social Work
B.A., 1982, University of Michigan-Flint;
M.S.W., 1988, University of Michigan;
Ph.D., 1996, Rutgers University.

Davidson, Tammy A. (1998) Assistant Professor ............... Chemistry
B.S., 1992, Denison University;
Ph.D., 1997, University of Florida.

Davidson, Robert (1985) Professor .......................... Mathematics
B.S., 1970, Valdosta State College;
M.A., 1978, Pembroke State University;
Ed.D., 1984, University of Tennessee-Knoxville.

Davis, Don (2000) Associate Professor ..................... Art and Design
B.F.A., 1972, University of Florida;
M.F.A., 1974, Rhode Island School of Design.

Day, Ronnie M. (1968) Professor ..................... History
B.A., 1963, Cumberland College;

Deadman, Alison P. (1998) Associate Professor ............... Music
B.A., 1986 and M.Phil., 1990, Leeds University;
M.A., 1992, California State University, Fresno;
Ph.D., 1998, University of California, Los Angeles.

DeAngelis, Anita M. (1994) Associate Professor ........ Art and Design
B.F.A., 1981, University of Texas-Austin;

Deng, Shaozong (2004) Assistant Professor .................. Mathematics
B.S., 1988, Xiamen Jiaotong University;
M.S., 1991, Nanjing University of Aeronautics & Astronautics;

Dixon, David (1989) Associate Professor ..................... Art and Design

Dixon, Jr., Wallace E. (2002) Associate Professor ............ Chair, Psychology
B.A., 1985, University of Toledo;

Dorgan, Kelly (2003) Assistant Professor ................ Communication
B.S., 1990, Appalachian State University;
M.A., 1991, University of Kentucky;
Ph.D., 2001, University of Georgia.

Drinkard-Hawkshaw, Dorothy (1989) Professor ............... History
Ph.D., 1974, Catholic University of America.

Dula, Christopher S. (2004) Assistant Professor ............... Psychology
B.A., 1996, University of North Carolina—Charlotte;
M.A., 2000, Appalachian State University;
Ph.D., 2003, Virginia Polytechnic Institute and State University.

Dyer, M. Wayne (1983) Professor .......................... Chair, Art and Design
B.S., 1973, Madison College;

Ehnidi, Yousif A. (1998) Associate Professor ................ English
B.A., 1975, University of Khartoum;
M.A., 1981, University of Sheffield;
Ph.D., 1995, Oklahoma State University.

Ellis, Jon B. (1989) Professor .......................... Psychology
B.S., 1973, Virginia Polytechnic Institute and State University;
M.S., 1981, Radford University;
Ph.D., 1989, University of Southern Mississippi.

Essin, Emmett M. (1967) Professor ..................... History
Director, Developmental Studies
A.B., 1964, Austin College;
ETSU Distinguished Faculty Member, 1976.

Franklin, Jay D. (2004) Assistant Professor .................. Sociology and Anthropology

Distinguished Faculty Award, 1996.

Funk, Robert David (1998) Associate Professor ........ Communication
B.S., 1976, Western Carolina University;

Gardner, Robert B. (1993) Professor ..................... Mathematics
ETSU Distinguished Faculty Award 1998.

Gao, Yongli (2004) Assistant Professor ............... Physics, Astronomy, and Geology
B.S., 1991, and M.S., 1994, Beijing University;

Gerard, Mira (2001) Assistant Professor ..................... Art and Design
M.F.A., 2001 University of Georgia.

Giles, Ronald K. (1983) Professor .......................... English
B.A., 1968, University of Alabama;
M.Ed., 1974, Livingston University;
Ph.D., 1981, Auburn University.

Gillespie, Wayne (2001) Assistant Professor ............. Criminal Justice and Criminology
B.A., 1993, College of William and Mary;
M.A., 1998, East Tennessee State University;
Ph.D., 2001, University of Kentucky.

Giroux, Mark L. (2001) Assistant Professor .......... Physics, Astronomy, and Geology
B.S., 1981, Brown University;
Ph.D., 1992, University of Texas.

Godbole, Anant (2000) ..................... Chair, Mathematics
B.Sc., 1975, Bombay University, India;

Gold, Jeffrey B. (1978) Professor ............... Chair, Philosophy and Humanities
B.A., 1973, University of Wisconsin;
Green, J. Keith (2002) Assistant Professor Philosophy and Humanities
A.B., 1980, Saint Olaf College;
M.Div., 1984, Yale University;

Grissett, Barbara B. (2003) Associate Professor Social Work
B.S., 1968, Southern Missionary College;
M.S.W., 1981 and Ph.D., 1992, University of Texas-Arlington.

Gross, Steven (2001) Assistant Professor English
B.A., 1976, University of Utah;
M.A., 1990 and Ph.D., 2000, University of South Carolina.

Grover, Kathleen H. (1976) Assistant Professor English
B.A., 1964, Florida State University;
M.A., 1967, Memphis State University.

Haley, Darryl E. (1999) Assistant Professor English
B.A., 1992, University of Arkansas;
M.A., 1994, University of Arkansas-Little Rock;
Ph.D., 1999, University of Alabama.

Hall, Delbert L. (1986) Professor Communication
B.S., 1977, Western Carolina University;
M.F.A., 1981, University of North Carolina-Greensboro;
Ph.D., 1986, University of Florida.

Hall, Ken (1999) Professor Chair, Foreign Languages
B.A., 1975, Furman University;
M.A., 1978, University of North Carolina-Chapel Hill;
Ph.D., 1986, University of Arizona.

Halvorson, Helene K. (2003) Associate Professor Social Work M.S.W. Director
Ph.B., 1969, University of North Dakota;
M.S.W., 1976, Barry University;
Ph.D., 1999, University of Tennessee.

Hamm, Dennis G., Jr. (1998) Instructor Criminal Justice and Criminology
B.S., 1987, East Tennessee State University;
M.Div., 1997, Southern Seminary;
M.Ed., 1978, University of Virginia;
D.Min., 1980, Union Seminary in Virginia.

Hammond, Judith A. (1975) Professor Sociology and Anthropology
Assistant Vice President for Community Outreach and Family Services
A.A., 1970, St. Petersburg Junior College;

Harrington, Karen A. (1986) Associate Professor Foreign Languages
Ph.D., 1986, University of California, Los Angeles.

Hayes, Tammy (1994) Assistant Professor Communication
B.S., 1987; M.A., 1996, East Tennessee State University;
M.S., 1988, Indiana University.

Haynes, Teresa (1988) Professor Mathematics
B.S., 1975 and M.S., 1984, Eastern Kentucky University;
Ph.D., 1988, University of Central Florida.

Headley, Thomas F. (1969) Associate Professor Communication
B.S., 1968 and M.S., 1969, Indiana State University.

Helfgott, Michel (2004) Assistant Professor Mathematics
B.S., 1972, Universidad de San Marcos;
M.S., 1994, Northern Arizona University;
Ph.D., 1997, Montana State University.

Henson, Gary D. (1989) Assistant Professor Physics, Astronomy, and Geology
B.S., 1979, University of Central Arizona;
M.S., 1982, University of New Mexico;
Ph.D., 1988, University of Oregon;
ETSU Distinguished Faculty Award, 2004.

Herrin, Mindy (2004) Assistant Professor Art and Design
B.F.A., 1998, Texas Tech University;

Herrin, Roberta T. (1976) Professor English Director, CASS
B.S., 1970 and M.A., 1972, East Tennessee State University;
Ph.D., 1980, University of Tennessee.

Hester, Wendell H. (1975) Associate Professor Sociology and Anthropology
A.B., 1965, University of Miami;

Hillhouse, Joel (1990) Associate Professor Psychology
B.S., 1981, Valparaiso University;

Hilliard, Jerry L. (1984) Professor Communication Faculty Emeritus
B.A., 1962 and M.A., 1969, Kent State University;
Ph.D., 1978, University of Tennessee.

Ho, Chu-Ngi (1983) Associate Professor Chemistry
B.A., 1975, Denison University;
Ph.D., 1980, University of Washington.

Holland, Mark (1996) Associate Professor English
B.A., 1972, Heidelberg College;

Holleran, David W. (2001) Assistant Professor Criminal Justice and Criminology
B.S., 1965, Trenton State College;
M.A., 1998, East Tennessee State University;
Ph.D., 2001, University of Nebraska-Omaha.

Holmes, Thomas Alan (1996) Associate Professor English

Hosier, Deborah Susan (2002) Instructor Mathematics

Huang, Janice (1995) Associate Professor Mathematics Faculty Emeritus
A.B., 1963, Brown University;

Hull, Vida J. (1986) Associate Professor Art and Design
B.A., 1968, Rollins College;
M.A., 1970, Ohio State University;
Ph.D., 1979, Bryn Mawr College.

Hungate, Christa I. (1981) Assistant Professor Foreign Languages
B.A., 1968, Rollins College;
M.A., 1970, Ohio State University;
Ph.D., 1979, Bryn Mawr College.

Hurd, Mary G. (1966) Associate Professor English Director, Film Studies Minor

Ignace, Richard (2003) Assistant Professor Physics, Astronomy, and Geology
B.S., 1991, Indiana University;

Jablonski, T. Henry, Jr. (1966) Associate Professor Mathematics Faculty Emeritus
B.S., 1961, Maryville College;
M.A., 1965, George Peabody College for Teachers;
M.P.H., 1966, University of North Carolina.

Jarrah, Abdul S. (2002) Assistant Professor Mathematics
B.S., 1992, Yarmouk University, Jordan;
Ph.D., 2002, New Mexico State University.

Jenrette, Thomas S. (1979) Professor Music
M.D.A., 1976, University of Michigan.

Jessee, D. J. (2002) Lecturer Communication
B.S., 1979, East Tennessee State University.

Johnson, Donald R. (1983) Professor English
Ph.D., 1972, University of Wisconsin-Madison.

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

Karsai, Istvan (2001) Assistant Professor .................... Biological Sciences

B.S., 1961, Teacher’s College, Tehran, Iran;
Ph.D., 1969, University of Wisconsin.

Kerley, Lyndell M. (1967) Professor ......................... Mathematics
B.S., 1964 and M.S., 1979, Tennessee State University;
Ph.D., 1977, University of Tennessee.

King, C. Lindsey (2004) Lecturer .......................... Sociology and Anthropology
B.S., 1977, East Tennessee State University;
M.A., 1990, Georgia State University;
Ph.D., 1999, University of Tennessee.

King, John (1999) Associate Professor .................... Communication

Kinsler, Amber E. (1997) Associate Professor ................ Communication Director, Women’s Studies Program
B.A., 1987 and M.A., 1989, University of South Florida;
Ph.D., 1997, Purdue University.

Kirby, Scott (2003) Assistant Professor ........................ Chemistry
B.Sc., 1989, University of Western Ontario;
Ph.D., 1996, University of Toronto.

Kirkwood, William (1978) Professor ....................... Communication Associate Dean, Special Programs

Knisley, Debra (1990) Associate Professor ................ Mathematics
B.S., 1974 and M.S., 1979, Tennessee Technological University;
Ph.D., 1989, Memphis State University.

Knisley, Jeff (1990) Associate Professor .................. Mathematics
B.A., 1985, Carson-Newman College;

Koehler, Anne (1990) Assistant Professor .................. English
B.A., 1963, East Tennessee State University;
M.A., 1966, Georgetown University.

Kopp, Richard W. (1971) Associate Professor ................ Chemistry
B.S., 1960, Rutgers University;
M.S., 1963, University of California;
Ph.D., 1966, University of Michigan.

Koterbay, Scott M. (1998) Associate Professor .......... Art and Design

Kortum, Richard D. (1999) Assistant Professor ........... Philosophy and Humanities
B.A., 1985, Duke University;
D.PhiL., 1996, 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.

Laughlin, Thomas F. (2003) Assistant Professor .......... Biological Sciences
B.S., 1979, M.A.T., 1985 and M.S., 1988, East Tennessee State University;
Ph.D., 1994, Virginia Polytechnic Institute and State University.


Leger, Jerry (1973) Professor ........................... Sociology and Anthropology
Director of Planning and Development, Community Partnership Center
B.A., 1968, North Georgia College;
M.A., 1971 and Ph.D., 1974, University of Iowa;

Lennon-Dearing, Robin (2004) Assistant Professor ........ Social Work
B.S.W., 1990, and M.S.W., 1998, University of South Florida;
Ph.D., 2004, University of Georgia.

Levy, Foster (1989) Associate Professor .................. Biological Sciences

Lichtenwalner, Shawna (2005) Assistant Professor ........... English
B.A., 1994, Nebraska Wesleyan University;
M.A., 1998, University of Nebraska;
Ph.D., 2004, Auburn University.

Lloyd, Theresa (1996) Associate Professor ................ English
B.A., 1974, Duke University;
M.A., 1982, Pennsylvania State University;
Ph.D., 1996, University of North Carolina.

Lo, See-Yin “Oliver” (1999) Associate Professor ................ Music
Higher Diploma, 1988, Hong Kong Polytechnic University;
Advanced Diploma, 1992, The Hong Kong Academy for Performing Arts;

Logan, David G. (1979) Professor ........................ Art and Design Faculty Emeritus
B.S., 1963, University of Wisconsin;
M.A., 1967, University of Illinois;
M.F.A., 1968, University of Wisconsin.

Luttermoser, Donald G. (1996) Associate Professor ........... Physics, Astronomy, and Geology
B.S., 1981, University of Michigan;
M.A., 1983, Wayne State University;
Ph.D., 1988, Indiana University.

Lynch, Andy (2004) Assistant Professor ................ Communication
B.S., 1995, Maryville University—St. Louis;
M.S., 1997, Southeast Missouri State University;

MacAvoy, Leslie (2000) Assistant Professor ................ Philosophy and Humanities
B.A., 1988, Swarthmore College;

Marks, Michael A. (2000) Instructor ......................... Mathematics
B.A., 1989, Flagler College;

McCallister, Leslie (2003) Assistant Professor ............ Sociology and Anthropology

McDowell, Timothy D. (1998) Associate Professor ........ Biological Sciences
B.A., 1983, University of North Carolina, Chapel Hill;

McGarry, Theresa (2004) Associate Professor ................ English
B.A., 1984, Michigan State University;
M.A., 1984, Temple University of Japan, Osaka;
Ph.D., 2004, University of South Carolina—Columbia.

McGill, Jamie (1993) Assistant Professor ................. Mathematics

McIntosh, Cecilia A. (1993) Associate Professor ........... Biological Sciences
Ph.D., 1999, University of North Carolina—Chapel Hill.

McKinstry, Sam W. (1974) Associate Professor ........... Political Science Faculty Emeritus
B.A., 1962, Westminster College;
McLain, Raymond W. (2000) Assistant Professor ............... Center for Appalachian Studies
Director, Bluegrass, Old Time, and Country Music

Messmer, Laughton (2002) Lecturer ......................... Communication
B.A., 1997, Truman State University;
M.A., 1999, Indiana State University.

Mileski, 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., 1976, East Tennessee State University;
Ph.D., 1986, University of Tennessee.

Miller, Larry S. (1984) Professor ......................... Criminal Justice and Criminology
B.A., 1974, East Tennessee State University;
M.S., 1977, Eastern Kentucky University;
Ph.D., 1981, University of Tennessee.
ETSU Distinguished Faculty Award, 2004.

Mills, James C. (1971) Professor .................. Art and Design
Faculty Emeritus
A.A., 1960, Spartanburg Methodist College;
B.A., 1963, Berea College;
M.A.T., 1964, Oberlin College;
Ph.D., 1972, University of Kansas.

Mink, Patricia (2003) Assistant Professor ............... Art and Design
B.A., 1981, Kalamazoo College;

Mohseni, Ray M. (2000) Assistant Professor ........... Chemistry
Laboratory Director
B.S., 1980, Pars College, Iran;

Mooney, James J. (1970) Professor ................ Communication
A.B., 1969 and M.A., 1970, University of Georgia;
Ph.D., 1964, University of Tennessee.

Moore, Darrell J. (1989) Associate Professor .......... Biological Sciences
B.A., 1975 and Ph.D., 1983, University of Texas-Austin.

Morefield, John D. (1983) Assistant Professor .......... English
A.B., 1962, Davidson College;

Murray, Catherine (1995) Associate Professor .......... Art and Design
B.A., 1982, Portland State University;

Mwynyelke, Jerome (2004) Assistant Professor ....... Foreign Languages
B.A., 1989, University of Ghana;

Nelson, Ardis L. (1994) Professor .................. Foreign Languages
B.A., 1965, Oberlin College;
M.A., 1972, Middlebury College, Madison;
Ph.D., 1980, Indiana University.

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-Riverside.

Odom, James L. (1971) Professor ....................... History
Faculty Emeritus
B.A., 1963, Birmingham Southern College;
M.A., 1965 and Ph.D., 1968, University of Georgia.
Distinguished Faculty Award, 1997.

B.A., 1984, Kent State University;

Olson, Charles S. “Ted” (1999) Associate Professor .... Appalachian Studies
B.A., 1982, University of Minnesota;
M.A., 1991, University of Kentucky;
Ph.D., 1997, University of Mississippi.

Page, Melvin E. (1987) Professor ......................... History
B.A., 1968, 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.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.

Pawlowsicz, Peter H. (1987) Associate Professor ....... Art and Design
B.A., 1965, Colby College;
M.A., 1970, West Virginia University;
Ph.D., 1987, Northwestern University.

Poole, George D. (1986) Professor ..................... Mathematics
B.S.E., 1964, Emporia State University;
M.S., 1966, Colorado State University;
Ph.D., 1972, Texas Tech University.

Powell, Harry D. (1965) Senior Affiliate Faculty .......... Physics
B.S., 1960, Davidson College;

Powers-Beck, Jeffrey P. (1993) Professor ............... English
Associate Dean, School of Graduate Studies
B.A., 1986, University of Iowa;

Price, Robert M., Jr. (1997) Associate Professor .... Mathematics
B.S., 1983 and M.S., 1986, Youngstown State University;
M.S., 1989, Ohio State University;
Ph.D., 1996, University of Wyoming.

Pyles, Rebecca A. (1991) Associate Professor .......... Biological Sciences
Dean, Honors College
B.S., 1980 and Ph.D., 1984, Moscow State University.

B.A., (1990), St. Edwards University;
M.A., (2000), New Mexico State University.

Rice, Joseph G. (1995) Instructor ....................... Coordinator,
Honors College
B.A., 1983, Wheeling Jesuit University;
M.F.A., 1988, McNeese State University.

Roberts, Charles (1990) Professor ....................... Chair, Communication
B.A., 1965, Davidson College;

Robertson, Joe Leonard (1976) Professor ............. Biological Sciences
B.S., 1965, Union University;
M.S., 1967 and Ph.D., 1975, University of Tennessee.
ETSU Distinguished Faculty Award, 2005.

Royalty, Dale M. (1971) Associate Professor ............... History
B.A., 1964, Kenyon College;

Rushing, Clarence A., Jr. (1969) Associate Professor .... History

Sanderbeck, Randi P. (1985) Assistant Professor ........ Music
B.M., 1978 and M.M., 1985, West Virginia University;

Sawyer, Robert E. (2001) Associate Professor .......... English
B.A., 1979, Skidmore College;
M.A., 1987, Western Carolina University;
Ph.D., 1997, University of Georgia.

Schmitt, Dale J. (1969) Professor ....................... History
B.A., 1965, Yale University;
East Tennessee State University

Schrift, Melissa (2006) Assistant Professor Sociology and Anthropology
B.A., 1991, Appalachian State University;

Seier, Edith (1998) Associate Professor Mathematics
B.S., 1971, San Marcos University;
M.A., 1973, University of Kansas;

Shafer, Melissa (1999) Assistant Professor Communication
B.A., 1983, Southern Illinois University;

Sherrill, Anne (1982) Professor English Faculty Emerita
B.A., 1960 and M.A., 1969, University of Texas-Austin;
Ph.D., 1981, University of Iowa.

Simon, Leonore (1999) Associate Professor Criminal Justice and Criminology
B.A., 1975, University of California-Berkeley;
J.D., 1978, Case Western Reserve School of Law;

Slagle, Judith B. (1999) Professor Chair, English
B.S., 1983, and M.A., 1985, East Tennessee State University;
Ph.D., 1991, University of Tennessee.

Slatton, Ralph (1990) Professor Art and Design
M.F.A., 1990, University of Iowa.

Smith, Beverley J. (1999) Assistant Professor Physics, Astronomy, and Geology
A.B., 1983, Brown University;
Ph.D., 1989, University of Massachusetts.
ETSU Distinguished Faculty Award, 2005.

Smith, Michael A. (1981) Professor Art and Design
B.F.A., 1977, Massachusetts College of Art;
M.F.A., 1981, Yale University School of Art.


Songer, Marcia J. (1993) Associate Professor English
B.S., 1985, Southern Illinois University;

Stanley, Isabel Bonnyman (1983) Professor English
Ph.D., 1990, University of Tennessee.

Stenstad, Gail (1989) Professor Philosophy and Humanities
B.S., 1984, University of Wisconsin;
Ph.D., 1988, Vanderbilt University.

Stephens, Daryl (1994) Assistant Professor Mathematics
B.S., 1983 and M.Ed., 1987, University of North Texas;
M.S., 1993, Texas Woman’s University.

Thompson, Phyllis A. (2005) Assistant Professor English
B.A., 1983, University of North Carolina at Greensboro;
M.A., 1992, Appalachian State University;
Ph.D., 2003, Louisiana State University.

Tuttle, Jack (1994) Associate Professor Center for Appalachian Studies Faculty Emeritus

Vereen, Niche (2003) Lecturer Communication
B.A., 2001, Winston-Salem State University;

Waage, Frederick O. (1978) Professor English

Wahlberg, Patty Gibbs (1999) Professor Social Work
B.S., 1992, West Virginia University.

Wallace, Steven (2001) Assistant Professor Physics, Astronomy, and Geology
B.S., 1995, Bowling Green University;
M.S., 1997, Fort Hays State University;
Ph.D., 2001, University of Iowa.

Walters, Gary M. (1971) Associate Professor Physics, Astronomy, and Geology
Assistant Dean for Distance Education, Continuing Studies

Wardeska, Jeffrey G. (1967) Professor Chair, Chemistry
B.S., 1963, Mount Union College;
Ph.D., 1967, Ohio University.
Distinguished Faculty Award, 1996.

Watson, Elwood D. (1997) Associate Professor History
B.A., 1960 and M.A., 1962, University of Delaware;
Ph.D., 1999, University of Maine.

Weiss, Katherine (2006) Assistant Professor English
M.Phil., 1997, Trinity College, Dublin;
M.A., 1999, California State University;
Ph.D., 2002, University of Reading, UK.

Whitehead, John T. (1987) Professor Chair, Criminal Justice and Criminology
B.A., 1969, St. John Vianney Seminary;
M.A., 1973, University of Notre Dame;

Whitelaw, Michael (2003) Associate Professor Physics, Astronomy, and Geology
B.S., 1982 and B.S. Hons., 1983, Monash University, Australia;
Ph.D., 1990, University of Florida.

Whitson, Marian H. (1993) Assistant Professor Criminal Justice and Criminology
B.A., 1969, Dillard University;
M.S., 1969, Tennessee State University;
Ph.D., 1984, Miles Law School;
Ph.D., 1994, Indiana University of Pennsylvania.

Wilson, Norma Parker (2004) Assistant Professor Communication
B.A., 1969, University of Iowa;
M.S., 1974, and Ph.D., 1977, University of Kansas.

Wolfe, Margaret R. (1969) Professor History
ETSU at Kingsport Faculty Emerita
B.S., 1967 and M.A., 1969, East Tennessee State University;
Ph.D., 1974, University of Kentucky.
ETSU Foundation Research Award, 1979.

Yampolsky, Lev (2001) Assistant Professor Biological Sciences
M.S., 1986, Moscow State University;

Zinser, Otto (1970) Professor Psychology Faculty Emeritus
B.S., 1964, Trinity College;

Zoggyie, Haakayoo (1999) Associate Professor Foreign Languages
B.A., 1988, University of Ghana;
M.A., 1991, University of Alberta;
Ph.D., 1998, University of Cincinnati.

COLLEGE OF BUSINESS AND TECHNOLOGY
BUSINESS

Alavi, Jafar (1985) Professor Economics, Finance, Geography, and Urban Studies
B.S., 1975, Karaj School of Managerial Economics;
M.B.A., 1978, Mississippi State University;
M.A., 1984 and Ph.D., 1988, University of Tennessee.

Anthony, Murray S. (1972) Professor Accountancy
Ph.D., 1975, University of Missouri;
CPA Tennessee.

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Bayes, Paul E. (1984) Professor ............................. Chair, Accountancy
B.S., 1965, University of Kentucky;
M.S., 1968, Indiana State University;

Becker, Lana L. (1991) Lecturer ............................. Accountancy
B.M.E., 1976, Central Missouri State University;

Berg, Gary G. (1987) Associate Professor ............ Accountancy
B.A., 1973, University of South Florida;
M.B.A., 1981, Florida-Atlantic University;
Ph.D., 1987, Texas A&M University; CPA, Florida.

Burkette, Gary D. (1992) Associate Professor .......... Accountancy
Coordinator, M.Acc. Program
B.S., 1978, Wake Forest University;
M.Acc., 1986 and Ph.D., 1994, Virginia Tech;
CPA, North Carolina.

Chu, Ting-Heng (2001) Assistant Professor .......... Economics, Finance, Geography, and Urban Studies
B.A., 1992, National Chung Hsing University, Taipai;

Czuchry, Andrew J. (1992) Professor ............................ Management and Marketing
Chair of Excellence in Business and Technology

Economics, Finance, Geography, and Urban Studies
B.A., 1973, University of Tennessee;


Everett, Michael David (1977) Professor .......... Economics, Finance, Geography, and Urban Studies

A.B., 1986, University of South Carolina;

Frierson, James G. (1973) Professor ............................. Management and Marketing
B.S., 1982, Arkansas State University;
J.D., 1986 and M.B.A., 1989, 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;

B.A., 1962 and M.A., 1964, Trinity University;
Ph.D., 1972, Southern Methodist University.

Justice, Robert ............................. Director, Small Business Development Center

B.A., 1977, The College of Wooster;

Mackara, W. Frederick (1975) Associate Professor ............................. Economics, Finance, Geography, and Urban Studies
Assistant Director, Graduate Business Studies
A.B., 1969, Rutgers University;
Ph.D., 1976, Texas A&M University.

Vice President for University Advancement
CPA, Tennessee, Virginia, and Illinois.

Marchioni, Michael P. (1976) Associate Professor ............................. Economics, Finance, Geography, and Urban Studies
B.A., 1963, Montclair State College;
M.A., 1968, Louisiana State University;
Ph.D., 1971, University of Cincinnati.

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, CPA, Tennessee and North Carolina.

McKinney, Michael M. (1994) Associate Professor .......... Management and Marketing
Assistant Dean for External Programs and Relations

Miller, Phillip E. (1994) Associate Professor .......... Chair, Management and Marketing
B.S., 1972, University of Tennessee;
M.S., 1978, Air Force Institute of Technology;
M.S., 1979, University of Southern California;
Ph.D., 1985, University of North Carolina.

B.A., 1999, City College of New York of the City—University of New York.

Morgan, Robert G. (1985) Professor ............................. Accountancy
B.A., 1968, Piedmont College;
M.Acc., 1971 and Ph.D., 1974, University of Georgia;
CMA, CPA, North Carolina.

Neal, Janet D. (2003) Assistant Professor ....................... Management and Marketing
B.S., 1985, Radford University;

Pointer, Martha M. (1991) Associate Professor ............................. Accountancy
Associate Dean and Director, Graduate Studies, College of Business
B.S., 1972, Tennessee Technological University;
Ph.D., 1992, University of South Carolina; CPA, Tennessee.

Pollock, Eugenia (2004) Lecturer ........................ Management and Marketing
B.A., 1969 and J.D., 1977, University of Tennessee

Quigley, John V. (1984) Associate Professor ............................. Management and Marketing
Director of Honors and Discipline

B.S., 1975, Tennessee Technological University;

Ryman, Joel A. (2003) Assistant Professor ................ Management and Marketing
B.A., 1983, Goshen College;
M.S., 1988, Thunderbird;
Ph.D., 1999, University of Tennessee.

Schneider, Kent N. (1984) Professor .................. Accountancy
B.S.B.A., 1975 and J.D., 1978, University of Missouri-Columbia;
M.Acc., 1984, University of Oklahoma;
CPA, Missouri and Texas.

East Tennessee State University

Shemwell, Donald J. (1993) Associate Professor .............. Management and Marketing

Smith, Jon L. (1980) Associate Professor .............. Economics, Finance, Geography, and Urban Studies
Director, Bureau of Business and Economic Research
B.S., 1968, Mississippi State University;
M.A., 1975 and Ph.D., 1982, University of South Carolina.

Sparks, Shelby G. (1998) Lecturer ....................... Accountancy

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, 1985.

B.S., 1968 and M.B.A., 1972, Auburn University;
Ph.D., 1978, Louisiana State University.

Steadman, Mark E. (1989) Associate Professor .......... Accountancy
B.S., 1979, University of Tennessee;
M.Acc., 1982, East Tennessee State University;
Ph.D., 1990, University of Tennessee;
CPA, Tennessee.

Swinehart, Kerry D. (1990) Associate Professor .......... Management and Marketing
B.A., 1983, University of South Florida;

Tarnoff, Karen A. (1994) Assistant Professor ............. Management and Marketing
B.S., 1987, M.S., 1992 and Ph.D., 1999,
Virginia Polytechnic Institute and State University.

Director, Master of Public Administration Program
B.A., 1976, University of St. Thomas;
M.A., 1976, Mankato State University;
Ph.D., 1978, Florida State University.

Turner, Craig (2002) Assistant Professor .............. Management and Marketing
Ph.D., 1999, University of Tennessee.

Warren J. Harold (1969) Associate Professor ...... Economics, Finance, Geography, and Urban Studies
B.S., 1961, Bowling Green University;
Ph.D., 1969, Oklahoma State University.

Weir, Ronald L. (1971) Professor ..................... Management and Marketing
D.B.A., 1977, Mississippi State University,
ETSU Distinguished Faculty Member, 1976.

ETSU Foundation Research Award, 1996.

Yavas, Ugur (1987) Professor ..................... Management and Marketing
B.A., 1970, Robert College;
Ph.D., 1972 Florida State University;
M.B.A., 1974, Ph.D., 1976, Georgia State University;
ETSU Foundation Research Award, 1993.

TECHNOLOGY

Acuff, Robert V. (1982) Professor .......... Family and Consumer Sciences
Director, Nutrition Center
B.S., 1974, Louisiana State University;
M.S., 1977 and Ph.D., 1982, University of Tennessee.

Alandt, Gigi M. (2002) Assistant Professor .......... Technology and Geomatics
B.F.A., 1987, University of Michigan;
M.A., 1994, Ohio State University.

B.S., 1993, University of Khartoum;
M.S., 1999 and Ph.D., 2003, Ohio State University.

Balles, 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., 1970, 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;

Blanton, William Hugh (1999) Assistant Professor ........ Technology and Geomatics
B.S., 1971, University of Houston;
M.S., 1978 and M.B.A., 1988, West Texas State University;

Broome, Hugh W. (1962) Associate Professor .......... Technology and Geomatics
B.S., 1958, University of Tennessee;
M.A., 1962, East Tennessee State University;
M.S., 1969, University of Arizona.

Brown, Amelia Gail (1979) Professor .......... Family and Consumer Sciences
Associate Dean for Transfer Articulation
B.S., 1960, East Tennessee State University;
M.S., 1971, University of Tennessee;
Ph.D., 1975, Kansas State University.

Burdick, Kent (1999) Instructor .......... Technology and Geomatics

Burke III, Samuel J. (2002) Instructor .......... Computer and Information Sciences

B.S., 1983, National Taiwan University of Science and Technology;

Clark, Marian M. (1986) Associate Professor .......... Surveying and Mapping
B.S., 1973 and M.S., 1978, Purdue University;
Ph.D., 1985, University of Wisconsin-Madison.

Clark, W. Andrew (2002) Associate Professor .......... Technology and Geomatics
B.S., 1975, Colorado State University;
M.S., 1978, University of Georgia;
Ph.D., 1980, North Carolina State University.

Coffey, Dennis (1999) Associate Professor .......... Technology and Geomatics
B.A., 1972, Berea College;
M.A., 1975 and M.B.A., 1979, University of Alabama;
M.B.C., 1996, Auburn University;
Ph.D., 1988, University of Tennessee.
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<th>Name</th>
<th>Title</th>
<th>Department</th>
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<tr>
<td>Cornett, Cheryl G.</td>
<td>Associate Professor</td>
<td>Technology and Geomatics</td>
<td>2002</td>
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<tr>
<td>Disque, Ann</td>
<td>Instructor</td>
<td>Family and Consumer Sciences</td>
<td>2001</td>
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<td>Fitzgerald, Martin R.</td>
<td>Assistant Professor</td>
<td>Technology and Geomatics</td>
<td>2003</td>
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<td>B.M., 1984, Indiana University-Bloomington; M.M., 1985, State University of New York-Stony Brook.</td>
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<td>Gotternan, Donald W.</td>
<td>Professor</td>
<td>Computer and Information Sciences</td>
<td>1990</td>
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<tr>
<td>Gunter, Charles Jr.</td>
<td>Associate Professor</td>
<td>Technology and Geomatics</td>
<td>1964</td>
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<td>B.S., 1962, Middle Tennessee State University; M.A., 1963, University of Tennessee.</td>
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<td>Hemphill, William K.</td>
<td>Assistant Professor</td>
<td>Technology and Geomatics</td>
<td>1992</td>
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<td>Hriso, Peter</td>
<td>Assistant Professor</td>
<td>Technology and Geomatics</td>
<td>2002</td>
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<td>B.S., 1992, University of Southern Indiana; M.F.A., 1994, Ohio State University.</td>
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<tr>
<td>Hyder, Carroll R.</td>
<td>Associate Professor</td>
<td>Associate Dean, College of Business and Technology</td>
<td>1967</td>
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<tr>
<td>Jenkins, Steven L.</td>
<td>Assistant Professor</td>
<td>Computer and Information Sciences</td>
<td>2002</td>
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<td>Jennings, David</td>
<td>Instructor</td>
<td>Technology and Geomatics</td>
<td>2002</td>
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<td>B.S. and M.S., 2002, East Tennessee State University.</td>
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<td>Johnson, Keith V.</td>
<td>Associate Professor, Chair, Technology and Geomatics</td>
<td>1993</td>
<td>B.S., 1987 and M.S., 1988, North Carolina A&amp;T State University; Ph.D., 1993, Ohio State University.</td>
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<td>Krieder, Jamie Branam</td>
<td>Associate Professor</td>
<td>Family and Consumer Sciences</td>
<td>1997</td>
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<td>B.S., 1976 and M.S., 1977, University of Tennessee; Ph.D., 1985, Ohio State University.</td>
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<td>Langenbrunner, Mary</td>
<td>Associate Professor</td>
<td>Family and Consumer Sciences</td>
<td>1993</td>
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<td>B.S., 1974 and M.S., 1976, University of Kentucky; Ph.D., 1988, University of Tennessee.</td>
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<td>Laws, Michaele</td>
<td>Assistant Professor</td>
<td>Computer and Information Sciences</td>
<td>2001</td>
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<td>Lewis, Angela Radford</td>
<td>Associate Professor, Chair, Family and Consumer Sciences</td>
<td>2004</td>
<td>B.S., 1984, B.S., 1987, and M.V.T.E. Middle Tennessee State University; Ph.D., 2003, University of Tennessee.</td>
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<td>Lowe, Elizabeth</td>
<td>Assistant Professor</td>
<td>Family and Consumer Sciences</td>
<td>1999</td>
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<td>B.S., 1974 and M.S.Ed., 1982, University of Tennessee.</td>
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<td>May, Robert M., II</td>
<td>Assistant Professor</td>
<td>Technology and Geomatics</td>
<td>1982</td>
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<td>B.S.E.E., 1968, Virginia Polytechnic Institute and State University; M.S., 1965, University of Tennessee.</td>
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<td>Nave, Jerry</td>
<td>Associate Professor</td>
<td>Surveying and Mapping</td>
<td>2001</td>
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<td>Nehring, Nancy</td>
<td>Associate Professor</td>
<td>Family and Consumer Sciences</td>
<td>1988</td>
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<tr>
<td>B.S., 1972 and M.S., 1977, University of Wisconsin-Stevens Point; Ph.D., 1993, Virginia Polytechnic Institute &amp; State University.</td>
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<td>Parker, Charles D.</td>
<td>Assistant Professor</td>
<td>Technology and Geomatics</td>
<td>1986</td>
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<td>Peples, Robert W.</td>
<td>Professor</td>
<td>Technology and Geomatics</td>
<td>1966</td>
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<td>B.S., 1956 and M.A., 1960, Northern Illinois University; Ph.D., 1965, University of Georgia.</td>
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<td>Pfeiffer, Phillip E.</td>
<td>Associate Professor</td>
<td>Computer and Information Sciences</td>
<td>1996</td>
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<tr>
<td>B.S., 1976, Yale University; M.S., 1986 and Ph.D., 1991, University of Wisconsin, Madison.</td>
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<td>Pine, Vernon</td>
<td>Assistant Professor</td>
<td>Computer and Information Sciences</td>
<td>1999</td>
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<td>Pleasant, James C.</td>
<td>Professor</td>
<td>Computer and Information Sciences</td>
<td>1966</td>
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<td>B.S., 1956 and M.A., 1960, East Carolina University; Ph.D., 1965, University of South Carolina.</td>
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<td>Powell, LT. Robert L.</td>
<td>Assistant Professor</td>
<td>Military Science</td>
<td>1994</td>
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<td>Price, Kellie</td>
<td>Assistant Professor</td>
<td>Computer and Information Sciences</td>
<td>1999</td>
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<td>Riser, Robert Richard</td>
<td>Professor</td>
<td>Computer and Information Sciences</td>
<td>1977</td>
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<td>B.S., 1961, Tusculum College; M.S., 1965, Stevens Institute of Technology.</td>
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<td>Roach, Jeffrey W.</td>
<td>Assistant Professor</td>
<td>Computer and Information Sciences</td>
<td>2002</td>
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<td>B.S., 1995, University of Technology, Jamaica; M.S., 2000, East Tennessee State University.</td>
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<td>Roberts, Anna D.</td>
<td>Associate Professor</td>
<td>Family and Consumer Sciences</td>
<td>1982</td>
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<tr>
<td>B.S., 1974, East Tennessee State University; Ph.D., 1990, University of North Carolina, Greensboro.</td>
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<td>Sanderson, Donald B.</td>
<td>Associate Professor</td>
<td>Computer and Information Sciences</td>
<td>1993</td>
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<td>Schaefer, Alison</td>
<td>Instructor</td>
<td>Family and Consumer Sciences</td>
<td>2002</td>
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<td>B.S., 1980, Wofford College; M.S., 1992, North Dakota State University.</td>
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<td>Sims, Joseph P.</td>
<td>Associate Professor</td>
<td>Technology and Geomatics</td>
<td>2000</td>
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<tr>
<td>B.S., 1985 and 1991, Middle Tennessee State University; M.S., 1989, University of Tennessee; Ph.D., 1996, University of Wales, UK.</td>
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<td>Smith, Suzanne</td>
<td>Associate Professor</td>
<td>Computer and Information Sciences</td>
<td>2003</td>
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<td>B.S., 1975, Baylor University; M.A.T., 1979, Vanderbilt University; M.S., 1984, University of Northwestern Louisiana; Ph.D., 1991, Florida State University.</td>
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</table>
East Tennessee State University

Story, Charles H. (1965) Professor ........... Technology and Geomatics Faculty Emeritus
B.S., 1961, Murray State University;
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Tarnoff, David (1999) Assistant Professor .................. Computer and Information Sciences

Tillman, Primus J. (1999) Assistant Professor .................. Technology and Geomatics
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M.A., 1970, East Tennessee State University;
Ph.D., 1978, University of Maryland.

Whitten, Barry (2001) Assistant Professor .................. Technology and Geomatics

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Bettis, Glenn E. (2000) Senior Affiliate Faculty ................... Educational Leadership and Policy Analysis
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Blakely, April (1997) Instructor .................. University School
B.S., 1988 and M.A., 1992, East Tennessee State University;
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Blankenship, Cecil N. (1971) Professor .................. Human Development and Learning
Ed.D., 1972, University of Tennessee.

Borden, Joseph E. (1995) Instructor .................. University School
B.M., 1970, University of Georgia;
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M.M., 1978, Georgia State University;

Borthwick, Kristen (2002) Instructor .................. University School
B.S., 1994, Centre College;

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B.S.A., 1976, Pratt Institute;
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B.A., 1969, Florida State University;
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ETSU Distinguished Faculty Award, 1991 and 1994.

Burke, Kevin L. (2005) Professor ........... Chair, Kinesiology, Leisure and Sport Sciences
B.A., 1982, Belmont Abbey College;
M.A., 1984, East Carolina University;
Ph.D., 1988, Florida State University;
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Cahill, William (2004) Instructor .................. University School
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Chisholm, Judith (2004) Instructor .................. University School
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M.S., 1973, University of Pennsylvania.

Coates, Thomas E. (1998), Associate Professor ... Kinesiology, Leisure and Sport Sciences
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M.A., 1974, Western Carolina University;
D.A., 1981, Middle Tennessee State University;
M.P.R.T.M., 1992, Clemson University.

B.A., 1975, University of North Carolina;
M.A., 1990, State University of West Georgia.

Collins, Martha D. (1993) Professor ........... Curriculum and Instruction
B.S.Ed., 1967, University of Georgia;

B.A., 1974 and M.A., 1976, University of Colorado;
Ph.D., 1981, University of Connecticut;
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Cradic, Sharon J. (2002) Instructor .................. University School
B.S., 1992, Lander College;
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Cummings, Rhona S. (1991) Associate Professor .... Curriculum and Instruction
B.A., 1972, Connecticut College;
M.Ed., 1973, University of North Dakota;
Ed.D., 1988, University of Houston.

Daniels, Harold L. (2000) Assistant Professor ........... Curriculum and Instruction
B.A., 1983 and M.A., 1993, Appalachian State University;
Ph.D., 1996, Virginia Polytechnic Institute and State University.

Davis, T. Jason (2002) Assistant Professor ........... Kinesiology, Leisure and Sport Sciences
B.S., 1994, Georgia Southern University;
M.S., 1996, Georgia Southern University;
Ph.D., 2003, Clemson University.

Day, Ariane (2001) Instructor .................. University School

DeFrieze, Deborah (2003) Assistant Professor ........... Director, University School
B.S., 1972, Bowling Green State University;

De Hoyos, Diego (2002) Assistant Professor....... Kinesiology, Leisure and Sport Sciences
B.A., 1987, Rollins College;
M.A., 1990, University of Central Florida;
Ph.D., 1996, University of Florida.

DeMartini, Anne L. (2006) Assistant Professor .... Kinesiology, Leisure and Sport Sciences
B.A., 1999, University of North Carolina, Chapel Hill;
M.Ed., 2003, and J.D., 2006, University of Georgia.

Dishner, Nancy (1985) Associate Professor ....... Educational Leadership and Policy Analysis
Vice Provost for Enrollment Services

Disque, J. Graham (1994) Associate Professor ... Human Development and Learning
B.A., 1980, St. Andrews Presbyterian College;
M.A., 1987, Appalachian State University;
Ph.D., 1992, Virginia Polytechnic Institute and State University.

Dwyer, Edward J. (1976) Professor ............ Curriculum and Instruction
B.S., 1962, Boston College;
M.Ed., 1974, University of Saskatchewan;
Ph.D., 1977, University of Georgia.

Erwin, Timothy A. (1997) Instructor ............... University School
B.S., 1983, East Tennessee State University;

Evanschen, Pamela A. (2001) Assistant Professor ............... Human Development and Learning
B.A., 1982, Tusculum College;

Floyd, Susanna M. (1995) Instructor ................. University School
B.A., 1972, Tulane University;

Fox, James J. (1990) Professor ........... Human Development and Learning
Associate Director, Center for Early Childhood Learning and Development
B.A., 1972, College of William and Mary;
M.A., 1975, University of Richmond;
Ph.D., 1982, University of Tennessee-Knoxville;
ETSU Distinguished Faculty Award, 2004.

Frye, Charles (2002) Instructor ....................... University School

Gann, Rosalind R. (2002) Assistant Professor ........ Curriculum and Instruction
B.A., 1970, Brooklyn College, City University of New York;
M.S.W., 1974, Smith College;

B.S., 1987 and M.S., 1989, University of Hawaii;

Gordon, Anthony (1999) Instructor ..................... University School
B.S., 1989, Western Carolina University.

Govett, Aimee L. (2003) Assistant Professor ........ Curriculum and Instruction

Hamm, Jean S. (2004) Assistant Professor ........ Curriculum and Instruction
B.S., 1970, and M.S., 1976, Radford University;
Ed.D., 2003 Virginia Polytechnic Institute and State University.

B.A., 1998, Tusculum College;
M.A., 2001, Union College;

Isbell, Rebecca T. (1975) Professor ................. Human Development and Learning
Director, Center for Early Childhood Learning and Development
Faculty Emerita
B.S., 1964, University of Tennessee;
M.A., 1973, East Tennessee State University;
Ed.D., 1979, University of Tennessee;
ETSU Distinguished Faculty Award, 1994.

Jungkett, Patricia (1999) Instructor .................. University School
B.A., 1969, Messiah College;
M.S., 1997, Xavier University;
Ed.S., 2003, East Tennessee State University;
National Board Certified Teacher (2003).

Knight, Terri C. (1988) Instructor .................... University School
B.A., 1973, University of Charleston;
M.S., 1981, Kansas State University;
Ed.D., 2002, East Tennessee State University;
National Board Certified Teacher (2002).

Knight, W. Hal (1986) Professor ............... Educational Leadership and Policy Analysis
Dean, College of Education
B.A., 1972, Augusta College;
P.M.A., 1977, West Virginia College of Graduate Studies;
Ph.D., 1983, Kansas State University.

Langlois, Lora (2004) Instructor ..................... University School

Lehwald, Harry (2006) Assistant Professor .... Kinesiology, Leisure and Sport Sciences
B.S., 1972 and M.Ed., 1977, University of Missouri, Columbia;


MacKay, Louise (1993) Associate Professor .... Educational Leadership and Policy Analysis
Faculty Emerita
B.A., 1957, Transylvania University, Lexington/Kentucky;
Vanderbilt University.

MacRae, Norma (1987) Professor ..................... Human Development and Learning
Vice Provost for Public Service and Dean of Continuing Studies
A.B., 1969, University of Georgia;

Malkus, Amy J. (2000) Associate Professor ........ Human Development and Learning
B.A., 1988, Washington College;
M.S., 1992 and Ph.D., 1995, Purdue University.

Malone, Laurie (1990) Instructor ....................... Kinesiology, Leisure and Sport Sciences

Vice President for University Advancement
CPA, Tennessee, Virginia, and Illinois.

Marks, Lori (1993) Professor ........ Human Development and Learning
B.A., 1983, Flagler College;
M.Ed., 1987, University of North Florida;
Ph.D., 1993, University of Florida;
ETSU Distinguished Faculty Award, 2000.

Mattioni, Denee J. (1997) Associate Professor ........ Curriculum and Instruction
B.S., 1989, Western Carolina University;

Melendez, Jane E. (2000) Professor ................... Curriculum and Instruction
B.S., 1961, Eastern Michigan University;

B.A., 1974, Virginia Polytechnic Institute;
M.A., 1976, Western Kentucky University;
Ph.D., 1992, Indiana State University;
ETSU Distinguished Faculty Award, 2002.

Moore, Teha (2006) Assistant Professor ........ Human Development and Learning
B.A., 1984, Anderson University;
M.S., 2003, Bradley University;
Ph.D., Idaho State University.
Morrow, Brent (1986) Associate Professor ........... Human Development and Learning

Mozen, Diana M. (2000) Associate Professor .... Kinesiology, Leisure and Sport Sciences

Myron, Mary C. (1997) Instructor ......................... University School

Payne, Linda (2006) Assistant Professor ............... Human Development and Learning
B.S., 1984, East Tennessee State University; M.S., 2002, Texas A&M University; Ph.D., 2006, University of Florida.

Perry, Leslie A. (1991) Professor ............... Curriculum and Instruction
B.S.E., 1967, Central Methodist College; M.S., 1975, East Texas State University; Ph.D., 1979, University of Mississippi.


Ralston, Elizabeth (1993) Professor .......... Curriculum and Instruction
Associate Dean, College of Education Director, Field Services

Ramsey, Michael (2005) Assistant Professor .... Kinesiology, Leisure and Sport Sciences
B.S., 1985 and M.A., 1995, Sam Houston State University; Ph.D., 2005, Texas A&M University.

Reed, Delanna (1999) Instructor ............. Curriculum and Instruction

Renner, Jasmine (2003) Assistant Professor ............. Educational Leadership and Policy Analysis
LL.B. Hons., 1993, University of Sierra Leone, Fourah Bay College; LL.M., 1998, University of Georgia School of Law; Ed.D., 2002, Bowling Green State University.

Rhoton, Jack (1987) Professor ............. Curriculum and Instruction
A.A., 1964, Hwaseo 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.

Rice, Sandra (2004) Instructor ................. University School


Robertson, Laura (2001) Instructor ..................... University School
B.S., 2000 and M.S., 2001, University of Tennessee.

Robertson, Patricia E. (1997) Professor ................. Chair, Human Development and Learning

Scarbrough, Janna (2006) Assistant Professor Human Development and Learning

Shaw, Aleeta (2002) Counselor ..................... University School

Skelton, Emily J. (2003) Instructor ................ University School

Smith, Jean (1999) Instructor ........... University School

Snider, J. Blake (2002) Assistant Professor ........ Human Development and Learning

Sobol, Joseph D. (2000) Associate Professor .......... Curriculum and Instruction

Squibb, Sharon L. (2000) Instructor ................. University School

Stone, John E. (1972) Professor ................ Human Development and Learning

Stone, Michael H. (2005) Assistant Professor ...... Kinesiology, Leisure and Sport Sciences
B.S., 1970, Florida Technological University; M.S., 1974, Tennessee Technological University; Ph.D., 1977, Florida State University.

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.

Teague, Travis L. (2005) Assistant Professor ...... Kinesiology, Leisure and Sport Sciences

Tollefson, Terry (1993) Professor ................. Educational Leadership and Policy Analysis

Turnbo, Linda (2004) Assistant Professor ............. Curriculum and Instruction

B.A., 1984, University of Georgia; M.A., 1996, Appalachian State University.

Whitmore, Harold L. (1970) Senior Affiliate Faculty ...... Human Development and Learning

Williams, STARLET (1988) Instructor ................ University School

Willis, Clarissa (2001) Associate Professor .... Human Development and Learning
Associate Director, Center for Early Childhood Learning and Development

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McIntosh, Cecilia (1993) Associate Professor .... Biological Sciences
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COLLEGE OF MEDICINE

Abdel-Wahab, Ayman M. (2001) Assistant Professor .......... Pediatrics
B.S., 1988, Zagazig University, Zagazig, Egypt.

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Director, Eastman Center for Nutrition Research
B.S., 1974, Louisiana State University;

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;

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B.S., 1981 and M.S., 1984, Banaras Hindu University, India;
Ph.D., 1989, Visva-Bharat University, India.

Airhart, Mark J. (1984) Associate Professor ............. Anatomy and Cell Biology
B.S., 1966, State University of New York-Cortland;
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Ph.D., 1981, University of Vermont.

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B.S., 1976, Allegheny College;

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M.D., 1983, University of Missouri, India.

Aneas, Beth A. (2003) Assistant Professor ............... Family Medicine
M.D., 1999, East Tennessee State University, Quillen College of Medicine.

Ardell, Jeffrey L. (1998) Professor .................... Pharmacology
B.A., 1979, Colorado College;
Ph.D., 1980, University of Washington.

Armstrong, Stephen C. (1991) Assistant Professor .......... Pathology
B.S., 1979, University of Florida;
Ph.D., 1986, University of Pennsylvania School of Medicine.

Auerbach, John S. (1996) Professor .................. Psychiatry and Behavioral Sciences
B.A., 1980, Brown University;
Ph.D., 1988, State University of New York- Buffalo.

Adjunct Faculty, Internal Medicine
Executive Associate Dean, Academic and Faculty Affairs
M.D., 1968, Dalhousie University, Nova Scotia.

Bailey, Beth (2003) Assistant Professor ................. Family Medicine
B.S., 1988, University of Michigan, Flint;


Baltazar, Ulises (2003) Assistant Professor .......... Surgery
M.D., 1985, La Salle University College of Medicine.

Banks, Jerry B. (2000) Assistant Professor ............ Family Medicine
B.A., 1985, Wake Forest University;
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M.D., 1992, Eastern Carolina University School of Medicine.

Bayard, Max (1999) Assistant Professor ............... Family Medicine
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B.A., 1976, Baptist Bible College;
B.S., 1987-Memphis State University;
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Executive Director, Office of Rural and Community Health
B.S., 1972, Pennsylvania State University;

Bennard, Bruce C. (1990) Associate Professor .......... Family Medicine
B.A., 1967, University of Massachusetts;
M.Ed., 1972 and Ph.D., 1986, University of North Carolina, Chapel Hill.

Bharti, Des R. (1990) Associate Professor .............. Pediatrics
M.B.B.S., 1972, J.N. Medical College, India.

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Program Director, Kingsport
B.S., 1980, Haverford College;
M.D., 1984, Emory University School of Medicine.

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Brahmbhatt, Hetal K. (2002) Assistant Professor .......... Psychiatry/Internal Medicine
Associate Program Director, Med-Psych Residency
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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.

B.A., 1978, Wake Forest University;
M.D., 1985, University of Louisville.

Cancellaro, Louis A. (1979) Professor .......... Psychiatry and Behavioral Sciences
Adjunct Faculty, Professional Roles/ Mental Health Nursing
B.S., 1955, Manhattan College;
Ph.D., 1960, New York University Graduate School of Arts & Science;
M.D., 1965, Duke University School of Medicine.

Castellino, Sharon M. (1998) Associate Professor .......... Pediatrics
B.A., 1988, Mount Holyoke College;

Chamberlin, Marian (1982) Associate Professor .......... Internal Medicine

Champney, W. Scott (1982) Professor ................ Biochemistry and Molecular Biology
Adjunct Faculty, Biological Sciences
A.B., 1965, University of Rochester;
ETSU Distinguished Faculty Award, 2000.

Chastain, David O. (2001) Associate Professor .......... Pediatrics
B.A., 1973, University of Mississippi, Oxford;
M.D., University of Mississippi, Jackson.
Chi, David S. (1980) Professor .......................... Internal Medicine
Adjunct Faculty, Microbiology/Pathology/Pharmacology
B.S., 1965, National Chung-Hsing University, China; M.A., 1974 and Ph.D., 1977, University of Texas Medical Branch.

Chua, Balvin H. L. (1994) Professor ...................... Biomedical Science
B.S., 1969, National Taiwan University; M.S., 1971, and Ph.D., 1975, University of Wisconsin

Clarity, Gregory E. (1995) Associate Professor .......... Family Medicine
Medical Director, Bristol
B.E., 1982, The Cooper Union; M.D., 1993, East Tennessee State University, Quillen College of Medicine.

Clark, Kenneth H. (1984) Assistant Professor ... Obstetrics/Gynecology

Clark, Terrence P. (2001) Assistant Professor ............ Psychiatry and Behavioral Sciences
B.S., 1968, Saint John’s University; M.D., 1973, Baylor College of Medicine.

Cobble, Anita Diane (1998) Associate Professor .......... Surgery
B.S., 1969, East Tennessee State University; M.D., 1993, East Tennessee State University, Quillen College of Medicine.

Coogan, Philip S. (1978) Professor ....................... Pathology
Faculty Emeritus
M.D., 1962, St. Louis University School of Medicine.

Copeland, Rebecca J. (1993) Assistant Professor ...... Internal Medicine

Culp, John S. (1986) Associate Professor ............... Family Medicine
Associate Program Director, Bristol
B.S., 1976, East Tennessee State University; M.D., 1980, University of Alabama School of Medicine.

Daigneault, Ernest A. (1977) Professor Emeritus ....... Pharmacology
B.S., 1952, Massachusetts College of Pharmacy; M.S., 1954, University of Missouri, Kansas City; Ph.D., 1957, University of Tennessee-Memphis.

D’Aprile, Joann W. (2000) Assistant Professor ........ Family Medicine

David, Daniel J. (1985) Professor ........................ Family Medicine
Adjunct Faculty, Family/Community Nursing/Psychiatry
B.S., 1974, Washington and Lee University; M.D., 1978, University of Virginia School of Medicine.

Defoe, Dennis M. (1996) Associate Professor .......... Anatomy and Cell Biology
B.A., 1974, University of Colorado; Ph.D., 1981, University of California.

DeLucia, Anthony J. (1977) Professor ..................... Surgery
Adjunct Faculty, Environmental Health
B.A., 1970, University of California; Ph.D., 1974, University of California, Davis. ETSU Foundation Research Award, 1983.

DeVoe, William M. (1992) Professor ...................... Vice Chair, Pediatrics
B.A., 1974, Miami University; M.D., 1977, Ohio State University College of Medicine.

Douglas, John E. (1980) Professor ........................ Internal Medicine
Faculty Emeritus
B.A., 1959, Oberlin College; M.D., 1963, Johns Hopkins University School of Medicine.

Drake, Janet (1999) Assistant Professor .............. Obstetrics/Gynecology

Duffourc, Michelle M. (1998) Assistant Professor ....... Pharmacology
B.S., 1985 and Ph.D., 1993, University of South Alabama.

Dunn, Julie (1998) Assistant Professor .................. Surgery
B.S., 1984, University of California, Davis; M.S., 1987, University of Tennessee-Knoxville;


Eason, Martin P. (2003) Assistant Professor .......... Section of Medical Education
M.D., 1987, University of Arizona; J.D., 2002 University of Louisville Brandeis School of Law.

Eberhart, Anne (2003) Assistant Professor .............. Surgery
B.A., 1985, Converse College; M.D., 1999, East Tennessee State University, Quillen College of Medicine.

Ecay, Tom W. (1995) Associate Professor ............... Physiology

Ernst-Fonberg, M. Lou (1978) Professor .............. Biochemistry and Molecular Biology
Adjunct Faculty, Biological Sciences
A.B., 1958, Susquehanna University; M.D., 1962, Temple University School of Medicine; Ph.D., 1967, Yale University.

Fahrig, Stephen A. (2000) Associate Professor .......... Internal Medicine
B.S., 1983, University of Notre Dame; M.D., 1987, Ohio State University.

Feierabend, Raymond Jr. (1982) Professor ............. Family Medicine
Program Director, Bristol
B.A., 1971, Amherst College; M.D., 1975, Tulane University School of Medicine.

Ferguson, Donald A. Jr. (1978) Associate Professor ...... Microbiology
A.B., 1967, Clark University; Ph.D., 1974, Syracuse University.

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.


B.A., 1974, Duke University; M.D., 1980, Medical College of Virginia.

Floresguerra, Carlos A. (1994) Associate Professor ....... Surgery
B.S., 1975, Colegio Americano, Quito, Ecuador; M.D., 1982, Universidad Del Salvador Medical School, Buenos Aires, Argentina.

Floyd, Michael R. (1989) Associate Professor .......... Family Medicine
Adjunct Faculty, Psychiatry

Franks, Ronald D. (1997) Professor .......................... Psychiatry and Behavioral Sciences
Program Director, Bristol

Frizzell, Peter G. (2001) Assistant Professor ............... Psychiatry
B.S., 1977, Milligan College; M.D., 1991, East Tennessee State University, Quillen College of Medicine.


Ganote, Charles E. (1989) Professor .................. Pathology
B.S., 1960, University of Cincinnati; M.D., 1965, Vanderbilt University School of Medicine.

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Gardberg, Leonard J. (2000) Assistant Professor ........... Internal Medicine

Ginn, David R. (1982) Associate Professor ............... Internal Medicine
B.A., 1975, University of Minnesota;
M.D., 1978, University of Minnesota Medical School.

Goulding, Clarence E. Jr. (1990) Associate Professor ....... Surgery
M.D., 1954, University of Tennessee College of Medicine.

Green, John A. (1981) Professor ................................... Internal Medicine
B.S., 1971, University of Richmond;
M.D., 1975, Medical College of Virginia.

Guha, Bhuvana (1996) Assistant Professor ..................... Internal Medicine
M.B.B.S., 1989, Tagore 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
B.S., 1974, Stanford University;
M.D., 1977, University of Arizona College of Medicine.

Han, Zhihua (2003) Assistant Professor ....................... Biochemistry and
Molecular Biology
B.S., 1997, Peking University, China;
M.S., 1999, Peking University, China;
Ph.D., 1997, University of California, San Diego.

Hancock, John C. (1977) Professor ................................ Pharmacology
B.S., 1962, University of Missouri-Kansas City;
M.S., 1965 and Ph.D., 1967, University of Texas.
ETSU Distinguished Faculty Award, 2001.

Hansen, Dianne (1995) Assistant Professor ...................... Psychiatry and
Behavioral Sciences
M.D., 1986, University of California, San Diego.

Hayman, J. Russell (2002) Assistant Professor .............. Microbiology
B.S., 1987, Mississippi College;
Ph.D., 1996, University of Mississippi Medical Center.

Haynes, Daniel F. (1994) Associate Professor ................. Surgery
B.A., 1981, University of Dallas;
M.D., 1985, Tulane University, New Orleans.

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.

Holler, Matthew B. (2003) Assistant Professor ............... Internal Medicine
B.S., 1993, University of Memphis;
M.D., 2000, East Tennessee State University, Quillen College of Medicine.

Hollins, Viola “Renee” (1999) Assistant Professor ............. Obstetrics/
Gynecology
B.A., 1989, University of Kansas;
M.D., 1993, University of Kansas School of Medicine.

Holt, James D. (2001) Assistant Professor ...................... Family Medicine
Medical Director, Johnson City
A.B., 1978, Princeton University;
M.D., 1982, University of Maryland School of Medicine.

Hooks, Mary A. (1996) Associate Professor ..................... Surgery
B.S., 1980, University of Michigan;
M.D., 1989, University of Pennsylvania.

Hoover, Donald B. (1978) Professor ............................ Pharmacology
B.S., 1972, Grove City College;
Ph.D., 1976, West Virginia University,
ETSU Distinguished Faculty Award for Research, 2002.

Hoskere, Gireendra V. (2003) Assistant Professor ........... Internal Medicine
M.B.B.S., 1993, Kasturba Medical College;
M.D., 1999, East Tennessee State University, Quillen College of Medicine.

B.S., 1965, Muhlenberg College;
M.S., 1965, Pennsylvania State University;
Ph.D., 1971, University of Colorado.

Houglund, Margaret W. (1977) Associate Professor ........... Anatomy and
Cell Biology
B.S., 1961, Brigham Young University;
Ph.D., 1977, University of South Dakota.

Hubbs, Doris T. (1991) Associate Professor ..................... Internal Medicine
B.S., 1973 and M.S., 1975, Massachusetts Institute of Technology;
M.D., 1988, East Tennessee State University, Quillen College of Medicine.

Hudgins, Larry (1992) Professor ............................... Internal Medicine
B.S., 1968, University of Tennessee-Knoxville;
M.D., 1971, University of Tennessee-Memphis.

Ismail, Hassam M. (2002) Assistant Professor .................. Internal Medicine
M.D., 1988, Damascus Medical University School.

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
ETSU Foundation Research Award, 1987.

ETSU Distinguished Faculty Award, 2002.

Katrus, Tony (1996) Professor ............................... Surgery
B.A., 1978, East Tennessee State University;
D.D., 1979, Harding University;
M.D., 1984, East Tennessee State University, Quillen College of Medicine.

Kaufman, Anand B. (1993) Associate Professor ............... Internal Medicine
B.S., 1977, University of the South;
M.D., 1981, Vanderbilt University School of Medicine.

Kawlinsky, David K. (1990) Professor .......................... Chair, Pediatrics
B.A., 1969, Temple University;
M.D., 1973, University of Pennsylvania School of Medicine.

Kao, Race L. (1992) Professor ............................... Surgery
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.

Kaplan, Michael K. (1992) Professor ....................... Internal Medicine
B.S., 1977, University of the South;
M.D., 1981, Vanderbilt University School of Medicine.

Karnad, Anand B. (1989) Associate Professor ............... Internal Medicine
Chief, Div. of Hematology/Oncology
M.D., 1980, University of Madras Medical College, India.
Kayser, Allen (2001) Associate Professor ......................... Psychiatry
Director, Residency Training
B.G.S., 1972, University of Nebraska, Omaha;
M.D., 1979, West Virginia University.

Kelley, Jim (1996) Professor .......................... Internal Medicine
B.S., 1969, Southern Nazarene University, Bethany, Oklahoma;

Kemp, Evelyn C. (2001) Assistant Professor ................. Family Medicine

Khaja, Nizamuddin (1998) Assistant Professor ............... Psychiatry and Behavioral Sciences
M.D., 1986, Siddharatha Medical College, Nagpur University, India.

Kimbrough, Barbara O. (1980) Professor ....................... Surgery
Director, Division of Ophthalmology
B.S., 1972, Iowa State University;
M.D., 1976, Mayo Medical School.

Kirsch, David (2003) Assistant Professor ...................... Internal Medicine
M.D., University of Florida, Gainesville.

Knight, T. T. (1997) Professor .......................... Surgery
B.A., 1955, University of Louisville;
M.D., 1959, University of Louisville, College of Medicine.

Kostrzewa, Richard M. (1978) Professor ................. Pharmacology
B.S., 1965 and M.S., 1967, Philadelphia College of Pharmacy and Science;
Ph.D., 1971, University of Pennsylvania.
ETSU Foundation Award, 1981.

Krishnan, Koyamangalath (1998) Associate Professor ........... Internal Medicine
P.U.C., 1974, St. Joseph’s College, India;
M.B.B.S., 1980, University of Madras, India;
M.D., 1987, Institute of Medical Education, India.

Krishnaswamy, Guha (1992) Professor ........................... Internal Medicine
Chief, Division of Allergy
Adjunct Faculty, Physiology
M.B.B.S., 1983, University of Madras Medical College, India.

Krozier-Hamati, Agnes K. (1991) Associate Professor ............ Internal Medicine
B.S., 1979, John Carroll University;
M.D., 1986, American University of the Caribbean, West Indies.

Kukula, Gary (2003) Assistant Professor ....................... Family Medicine
B.S., 1977, Central Michigan University, Mount Pleasant;
M.A., 1978, Ball State University, Muncie, Illinois;
Ph.D., 1981, Southern Illinois University, Carbondale.

Kumar, P. Lucy (1993) Assistant Professor ....................... Pediatrics
M.D., 1964, Andhra Medical College, India.

Kwasigroch, Thomas E. (1979) Professor .... Anatomy and Cell Biology
Assistant Dean for Curriculum and Director, Anatomical Gift Program
B.S., 1967, Niagara University;
Ph.D., 1976, University of Virginia.

Laffan, John J. (1992) Associate Professor ................... Microbiology
B.A., 1982, Hamilton College;
Ph.D., 1988, Wesleyan University.

Laird, Kimberly J. (1992) Assistant Professor ...... Learning Resources
B.A., 1984, Bethel College;

Lang, Forrest (1984) Professor .......................... Family Medicine
Adjunct Faculty, Adult Nursing Director, Medical Education
B.A., 1967, University of Pennsylvania;
M.D., 1971, Hahnemann University School of Medicine.

Lauer-Silva, Karen (2001) Assistant Professor ............ Obstetrics/Gynecology
B.S., 1992, South Dakota School of Mines and Technology;
M.D., 1996, University of South Dakota School of Medicine.

Lee, Prescott P. (2001) Assistant Professor .................. Internal Medicine
B.S., 1988, University of California, Los Angeles;
M.D., 1993, Tufts University School of Medicine.

Leicht, Stuart (1984) Professor .......................... Internal Medicine
Chief, Division of Dermatology
B.A., 1974, State University of New York;
M.D., 1978, Emory University School of Medicine.

Li, Chuanfu (1996) Associate Professor ..................... Surgery
Adjunct Faculty, Pharmacology

Linville, M. David, Jr. (2002) Instructor .. Section of Medical Education
Adjunct Faculty, Anatomy and Cell Biology
B.S., 1995, University of Tennessee;
M.D., 2000, East Tennessee State University, Quillen College of Medicine.

Lockett, Mark (2001) Assistant Professor ...................... Surgery
B.A., 1990, Furman University;
M.D., 1994, Medical University of South Carolina.

B.S., 1996, University of Kentucky;
M.D., 2000, University of Louisville, School of Medicine.

Loyd, Stephen D. (2001) Assistant Professor .................. Internal Medicine
B.S., 1994, University of Tennessee-Knoxville
M.D., 1998, East Tennessee State University, Quillen College of Medicine.

McGowen, K. Ramsey (1985) Professor ....................... Psychiatry and Behavioral Sciences
ETSU Distinguished Faculty Award, 2003.

Mehta, Jayantilal B. (1977) Professor ...................... Internal Medicine
Chief, Division of Preventive Medicine and Epidemiology
M.D., 1969, Government Medical College, India.

Director, Division of Cardiovascular and Thoracic Surgery
B.S., 1977, The Pennsylvania State University;
M.D., 1979, Jefferson Medical College.

Miller, Barney (1997) Associate Professor .................... Psychiatry and Behavioral Sciences
Adjunct, Anatomy and Cell Biology
B.A., 1975, University of Tennessee-Chattanooga;
Ph.D., 1983, University of Tennessee-Memphis.

Miller, Merry N. (1995) Professor .......................... Chair, Psychiatry and Behavioral Sciences
B.S., 1975, Southwestern-Memphis;
M.S., 1983, University of Tennessee;

Mills, Debra Quarles (2000) Assistant Professor .............. Pediatrics
B.A., 1988, University of Tennessee;
M.D., 1993, East Tennessee State University, Quillen College of Medicine.

Miyamoto, Michael D. (1978) Professor ...................... Pharmacology

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;

Moore, Jason B. (2002) Assistant Professor ................ Family Medicine
B.A., 1995, Miami University of Ohio, Oxford;
M.D., 1999, Ohio State University College of Medicine.

Moorman, Jonathan P. (2000) Associate Professor ....... Internal Medicine
B.S., 1987, Loyola College;
M.D., 1991, University of Virginia School of Medicine.

Morgan, Calvin V. (1996) Professor ......................... Surgery
B.S., 1958, Davidson College;
M.D., 1962, Duke University.
Moser, Michele R. (2002) Assistant Professor ................. Psychiatry and Behavioral Sciences
B.A., 1983, Augustana College;

Moylan, Patricia C. (1991) Professor ......................... Surgery
Adjunct Faculty, Pediatrics
Director, Division of Pediatrics Surgery
Faculty Emeritus
B.S., 1959, University of Southern Mississippi;
M.D., 1965, University of Mississippi School of Medicine.

Mullersman, Jerald (2000) Associate Professor ............. Pathology
M.D., and Ph.D., 1986, University of Florida.

Musich, Phillip R. (1980) Professor ......................... Biochemistry and Molecular Biology
Adjunct Faculty, Biological Science
B.S., 1966, Creighton University;
Ph.D., 1973, University of Chicago.

Myers, James W. (1994) Associate Professor ............... Internal Medicine
B.S., 1981, East Tennessee State University;
M.D., 1985, Wake Forest University.

Nunley-Gorman, Diana L. (1987) Associate Professor ........ Internal Medicine
B.A., 1979, Carson-Newman College;
M.D., 1983, East Tennessee State University, Quillen College of Medicine.

Nwosu, Uchenna C. (2003) Professor ................. Obstetrics/Gynecology
A.B., 1964, Harvard University;
M.D., 1966, Boston University School of Medicine.

Olive, Kenneth (1989) Professor ............. Vice Chair, Internal Medicine
Associate Chair for Clinical Affairs
B.S., 1977, Duke University;
M.D., 1982, East Carolina University School of Medicine.

Olsen, Martin E. (1992) Professor ........... Chair, Obstetrics/Gynecology
Adjunct Faculty, Pediatrics
B.S., 1981, Muskingum College;
M.D., 1985, Medical School of Ohio.

Ossorio, Miquel A. (1996) Associate Professor .......... Internal Medicine
B.S., 1979, University Center Occidental, Venezuela.

Pandian, Shantha (2001) Assistant Professor ............... Psychiatry and Behavioral Sciences
M.D., 1994, Kasturba Medical College, India.

Panini, Aruna S. (1996) Assistant Professor ............... Family Medicine
B.S., 1974, University of Bagalore, India;
M.S., 1976, University of Madras, India;
M.S., 1979, University of Cincinnati;
M.D., 1982, University of Colorado.

Panini, Sankhavaram, R. (1996) Associate Professor ...... Biochemistry and Molecular Biology
B.S., 1968, Andhara University, Waltair, India;
M.S., 1970, University of Baroda, India; D.I.I.Sc., 1971;
Ph.D., 1975, Indian Institute of Science, Bangalore, India.

Peiris, Alan N. (1993) Professor ......................... Internal Medicine

Pennington, Glenn (2000) Professor ......................... Surgery
B.A., 1962, University of Mississippi, Jackson;
M.D., 1966, University of Mississippi, Oxford.

Pillingar, Lynn (1981) Professor ......................... Internal Medicine
B.S., 1972, Duke University;
M.D., 1977, Medical University of South Carolina.

Pollitte, Jonathan (2001) Assistant Professor ............. Internal Medicine
B.S., 1990, Kentucky Wesleyan College;
M.D., 1999, East Tennessee State University, Quillen College of Medicine.

Ponnappa, Siddhanta (Suresh) P. (1999) Professor ..... Assistant Dean, Learning Resources, Director of Library and Biomedical Communications
B.Sc., 1970, University of Agricultural Sciences, Bangalore, India;
M.S.L.S., 1984, University of Tennessee-Knoxville.

Pop, Anca (2000) Clinical Associate Professor .......... Internal Medicine
B.S., 1985, St. Save College, Bucharest, Romania;
M.S., 1991, Medical and Pharmaceutical University, Bucharest, Romania.

Powers, Ruby R. (2001) Assistant Professor ....................... Pediatrics
B.S., 1991, Oklahoma City University;
M.D., 1997, University of Oklahoma College of Medicine.

Price, David T. (1997) Assistant Professor ............... Residency Program
Director, Pediatrics
B.S., 1978 and M.D., 1982, University of South Carolina.

Procter, Carol (2003) Assistant Professor ............... Internal Medicine
M.D., East Tennessee State University, Quillen College of Medicine.

Pryor, Elizabeth (2001) Assistant Professor ...... Obstetrics/Gynecology

Punyasavatsut, Natavut (2003) Assistant Professor ............. Pediatrics
M.D., 1994, Chulalongkorn University.

Ram, Vijay (1999) Clinical Assistant Professor ..... Internal Medicine
B.S., 1994, Bangalore Medical College, Bangalore, India;
M.D., 1999, East Tennessee State University, Quillen College of Medicine.

Adjunct Faculty, Obstetrics/Gynecology
B.S., 1962, Western Carolina University;
M.S., 1964 and Ph.D., 1968, University of Tennessee-Knoxville.

Rasch, Ellen M. (1978) Professor ..................... Anatomy and Cell Biology
Faculty Emeritus
Ph.B., 1945, B.S., 1947, M.S., 1948 and Ph.D., 1950,
The University of Chicago.
ETSU Distinguished Faculty Award, 1989.

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 Faculty Emeritus
B.S., 1953, Furman University;
M.D., 1957, Duke University School of Medicine.

Robinson, Mitchell E. (1985) Professor .................. Biochemistry and Molecular Biology
Assistant Dean for Graduate Studies
Adjunct Faculty, Biological Sciences
B.S., 1976, University of North Carolina, Chapel Hill;
M.S., 1978, Western Carolina University;
Ph.D., 1983, Wake Forest University, Bowman Gray School of Medicine.

Rose, Douglas J. (2002) Assistant Professor ............... Family Medicine
Medical Director, Kingsport
B.S., 1969, Saint Francis University
M.D., 1976, Jefferson Medical College of Thomas Jefferson University.

Rowe, Brian P. (1981) Professor ......................... Physiology

Roy, Thomas M. (1994) Professor ......................... Internal Medicine
Chief, Division of Pulmonary Diseases
Associate Chair for Faculty/Resident Development and Research
B.A., 1985, University of Louisville;
M.D., 1973, University of Louisville School of Medicine.

Director, Division of Vascular Surgery
B.A., 1971, Centre College;
M.D., 1976, University of Kentucky College of Medicine.

Rusinol, Antonio E. (1996) Assistant Professor ........... Biochemistry and Molecular Biology
B.Sc., 1983 and Ph.D., 1990, National University of Tucuman,
Tucuman, Argentina.

Sarubbi, Felix A. (1987) Professor ......................... Internal Medicine
Chief, Division of Infectious Diseases
Assistant Dean/Director of Medical Education-VAMC
B.S., 1965, Manhattan College;
M.D., 1969, New York University School of Medicine.
Schacht, Thomas E. (1985) Professor ...................... Psychiatry and Behavioral Sciences

Schambra, Uta B. (1993) Assistant Professor ........... Anatomy and Cell Biology
B.S., 1960, Apothekerhammer, Kassel, Germany; M.S., 1965, Niedersachsischer Sozialminister, Hanover, Germany; Ph.D., 1988, University of North Carolina, Chapel-Hill.

B.A., 1993, University of North Carolina, Chapel Hill; M.D., 1997, University of North Carolina School of Medicine, Chapel-Hill; M.P.H., 1998, University of North Carolina School of Public Health, Chapel Hill.

Schoborg, Robert V. (1994) Associate Professor ....... Microbiology
B.S., 1985, Oklahoma State University; Ph.D., 1991, University of Missouri, Columbia.

Schweitzer, Janice B. (2000) Assistant Professor .......... Family Medicine

Schweitzer, John B. (1999) Professor ..................... Chair, Pathology
B.S., 1974, Washington University School of Medicine.

Shah, Pramod A. (1985) Professor ......................... Psychiatry and Behavioral Sciences
M.B.B.S., 1971, University of Bombay, India.

Shaikh, Mohammed A. (2003) Assistant Professor ...... Internal Medicine
M.B.B.S., 1994, B.J. Medical College; M.D., 2002, East Tennessee State University, Quillen College of Medicine.

Shepard, F. Mike (1977) Professor Emeritus ............... Pediatrics
B.S., 1956, Vanderbilt University; M.D., 1959, Vanderbilt University School of Medicine.

Shurbaji, Muhammad S. (1990) Associate Professor .......... Pathology

Sinensky, Michael (1995) Professor ....................... Chair, Biochemistry and Molecular Biology
Adjunct Faculty, Internal Medicine

Singh, Krishna (2002) Associate Professor ................... Physiology
B.S., 1980, Maharishi Dayand 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., 1960, University of Florida.

Sloan, Patrick (1979) Professor ....................... Psychiatry and Behavioral Sciences

Sloan, Susan P. (2002) Assistant Professor ............. Internal Medicine
Associate Residency Program Director
B.S., 1972, Middle Tennessee State University; M.D., 1998, University of Minnesota School of Medicine.

Smith, J. Kelly (1979) Professor Emeritus .................. Internal Medicine
B.A., 1957, Cornell University; M.D., 1960, Cornell University Medical College.

Smith, Stephen J. (2002) Assistant Professor .......... Internal Medicine
B.S., 1982, Louisiana State University; M.D., 1986, Louisiana State University Medical College.

Smith, Steven M. (1998) Assistant Professor .......... Internal Medicine
B.S., 1980, East Tennessee State University; M.D., 1985, East Tennessee State University, Quillen College of Medicine.

Stanton, Paul E. Jr. (1985) Professor ..................... Surgery
University President
Adjunct Faculty, Adult Nursing
B.A., 1965, Emory University; M.D., 1969, Medical College of Georgia.

Stephens, Gretel C. (1998) Assistant Professor ........ Forensic Pathology
M.D., 1974, University of Tennessee-Memphis.

Stephens, Mary M. (2003) Assistant Professor ........ Family Medicine

Stern, Patrick (1999) Professor ......................... Pediatrics
Adjunct Faculty, Psychiatry
B.S., 1970, University of Notre-Dame; M.D., 1974, Case-Western Reserve University.

Adjunct Faculty, Anatomy and Cell Biology/Physiology/Biochemistry

Stuart, Charles A. (2000) Professor ........... Chair, Internal Medicine

Summers, Jeffrey A. (2000) Associate Professor .......... Internal Medicine
B.S., 1979, Hobart College; M.D., 1982, Ohio State University College of Medicine.

Targu, Vikram (2003) Assistant Professor ............... Internal 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

Tober-Meyer, Brunnhilde K. (1978) Associate Professor ...... Physiology
Adjunct Faculty, Microbiology
Director, Division of Laboratory Animal Resources
Faculty Emerita

Townsend, Thomas (1991) Associate Professor .......... Family Medicine
B.S., 1969, Hendrix College; M.D., 1973, University of Arkansas School of Medicine.

Trent, Stephen (2002) Assistant Professor ............. Microbiology
B.A., 1994, University of Virginia; Ph.D., 1998, East Tennessee State University, Quillen College of Medicine.

Tudiver, Fraser G. (2001) Professor ............... Family Medicine
Director of Primary Care Research

Turner, Barbara B. (1982) Professor ....................... Physiology
Adjunct Faculty, Psychiatry

Turner, Kevin L. (2003) Assistant Professor ........... Family Medicine
B.S., 1990, Maryville College, Maryville, Tennessee; M.D., 2000, East Tennessee State University, Quillen College of Medicine.

Votaw, May L. (1978) Professor Emerita ............... Internal Medicine
A.B., 1952, Hope College; M.D., 1956, University of Michigan Medical School.

Walker, Elaine (1991) Clinical Assistant Professor ...... Internal Medicine
B.S., 1979, North Dakota State University; Ph.D., 1988, University of North Carolina, Chapel Hill.

Wallace, Richard L. (2000) Assistant Professor .... Learning Resources Coordinator, Interlibrary Services and Outreach Services
Youngberg, George A. (1980) Professor ................. Pathology
B.A., 1973, Lake Forest College;
M.D., 1977, Northwestern University Medical School.

Zakaria, Wael N. (1994) Assistant Professor ............... Internal Medicine
M.D., 1983, University of Jordan School of Medicine, Jordan.

Zou, Yue (2001) Associate Professor ......................... Biochemistry &
Molecular Biology
B.S., 1982, Chengdu University of Science and Technology, China;
M.S., 1985, Dalian Institute of Chemical Physics, Chinese Academy of Sciences;

**COLLEGE OF NURSING**

Alley, Nancy M. (1972) Professor .......................... Family/Community Nursing
Executive Associate Dean, College of Nursing
B.S.N., 1968, Medical College of Virginia;
M.S., 1972, Virginia Commonwealth University;
Ph.D., 1987, University of Tennessee-Knoxville.

Anderson, Mary Katherine (1995) Associate Professor ........ Family/Community Nursing
M.S.N., 1988, University of Wisconsin-Oshkosh;
Ph.D., 1992, University of Michigan.

Blowers, Sally S. (1995) Associate Professor .......................... Adult Nursing
B.S.N., 1966, Columbia University;
M.S., 1969, University of Rochester;
Ph.D., 1996, University of Tennessee-Knoxville.

Brehm, Jerilyn S. (1994) Assistant Professor .......................... Family/Community Nursing

Brodrick, Rhonda L. (2001) Assistant Professor .......................... Adult Nursing
B.S.N., 1986, East Tennessee State University;
M.S.N., 1990, Vanderbilt University.

Calhoun, Sandy (2004) Instructor .......................... Professional Roles/
Mental Health Nursing
A.D.N., 1979, Mountain Empire Community College;
M.S., 1980, University of Houston.

Drummond, Ellen W. (1994) Assistant Professor .......................... Adult Nursing
B.S.N., 1975, Jackson State University;
M.S.N., 1986, Whitworth College.

Dunham-Taylor, Janne (1998) Professor .......................... Professional Roles/
Mental Health Nursing
B.S., 1968, Michigan State University;
M.S., 1975 and Ph.D., 1982, University of Michigan.

Edwards, Joellen B. (1989) Professor .......................... Family/Community Nursing
Project Director ACTRID
B.S.N., 1979, Ohio University;
M.S.N., 1982, West Virginia University;
Ph.D., 1988, Ohio University.

Everett, Kathy (2004) Instructor .......................... Adult Nursing
R.D., 1987, Rio Lindo College;
B.S.N., 1988, California State University;
M.N., 1992, University of California.

Garrett, Linda (2002) Assistant Professor .......................... Family/Community Nursing

Gerdin, Gail A. (2003) Assistant Professor .......................... Family/Community Nursing
B.S.N., 1983, Mobile College;
M.S., 1990 and Ph.D., 2002, Ohio State University.

Ghaffari, Masoud (2002) Assistant Professor .......................... Adult Nursing
B.Sc., 1978, Institute of Paramedical Sciences;
M.Ed., 1996, Cleveland State University;
M.S.N./B.S.N., 1996, University of Akron;
Ph.D., 2001, Cleveland State University.

Glenn, Loyd Lee (1992) Professor .......................... Professional Roles/
Mental Health Nursing
B.A., 1974, University of California;
Ph.D., 1979, Stanford University.

Mental Health Nursing
B.S.N., 1990, Tennessee Technological University;
East Tennessee State University

Greenwell, Audry (2004) Assistant Professor .......... Family/Community Nursing
B.S.N., 1981, Spalding University;

Grover, Susan M. (1979) Professor . Chair, Family/Community Nursing
B.S.N., 1969, Alfred University;
M.S.N., 1979, University of Rochester;
Ph.D., 1993, University of Tennessee-Knoxville.

Hayes, Patricia A. (1999) Associate Professor ....... Professional Roles/ Mental Health Nursing
B.S.N., 1981, Grand View College;
M.S., 1985, University of Minnesota;
Ph.D., 1997, Georgia State University.

Hossler, Susan (2001) Instructor ............... Family/Community Nursing
B.S.N., 1989, East Tennessee State University;
M.S.N., 1997, University of Tennessee—Knoxville.

Hunter, Rebecca (2004) Instructor ............ Family/Community Nursing

Jackson, Frances A. (2000) Assistant Professor ..... Professional Roles/ Mental Health Nursing
B.A., 1972, Vanderbilt University;
B.S.N., 1980, East Tennessee State University;
M.S.N., 2005, University of Virginia.

Kaplan, Amy I. (2004) Assistant Professor .............. Professional Roles/ Mental Health Nursing
B.S.N., 1991, Wilmington College;
M.S.N., 1994, East Tennessee State University.

Kerley, Linda J. (1981) Associate Professor ............... Adult Nursing
B.S., 1964 and M.A., 1965, Appalachian State University;
B.S.N., 1978, East Tennessee State University;
M.S.N., 1983, University of North Carolina—Greensboro;
Ph.D., 1993, University of Texas-Austin.

King, Marjorie S. (1993) Associate Professor ............... Professional Roles/ Mental Health Nursing Faculty Emerita
B.S.N., 1970, Duquesne University;
M.N.Ed., 1976, University of Pittsburgh;

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 ....................... Professional Roles/ Mental Health Nursing
B.S.N., 1955, Cornell University;
M.N., 1977, University of Florida;
D.N.Sc., 1987, University of Pennsylvania.

Marrs, Jo-Ann S. (2002) Professor ....................... Professional Roles/ Mental Health Nursing
Associate Dean, Academic Programs/Student Services

McConnell, Peggy R. (1974) Assistant Professor ........ Adult Nursing
B.S.N., 1970, East Tennessee State University;
M.S.N., 1974, Emory University.

McCook, Judy G. (1997) Associate Professor .......... Family/Community Nursing
B.S.N., 1976, Medical College of Georgia;
M.S.N., 1979, University of Alabama-Birmingham;
Ph.D., 2002, University of Michigan-Ann Arbor.

Merriman, Carolyn S. (1985) Associate Professor .... Family/Community Nursing
B.S.N., 1979, University of Evansville;
M.S.N., 1983, Texas Woman’s University.

Moore, Patricia (2004) Instructor ........................ Adult Nursing
B.S.N., 1997, East Tennessee State University;
M.S.N., 2001, University of Tennessee—Knoxville.

Pearson, Tamera (2004) Assistant Professor ............... Adult Nursing
B.S.N., 1985, Southern College;
M.S.N., 1990, Vanderbilt University;
Ph.D., 1997, University of Southern California.

Ramsey, Priscilla W. (1990) Professor ....................... Adult Nursing
B.S., 1970 and M.S., 1975, Clemson University;
Ph.D., 1990, University of Virginia;
ETSU Distinguished Faculty Award, 2003.

Rayman, Kathleen M. (1999) Associate Professor .. Professional Roles/ Mental Health Nursing
B.S., 1978, University of Pittsburgh;
M.S.N., 1987 and Ph.D., 1994, University of Virginia.

Rice, Judith A. (1997) Assistant Professor ............... Professional Roles/ Mental Health Nursing

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., 1984, Oregon Health Sciences University.

Seymour, Rosalie J. (1993) Associate Professor ... Professional Roles/ Mental Health Nursing Faculty Emerita
B.S.N., 1971, West Chester University;

Shell, Renee C. (1996) Assistant Professor .................... Adult Nursing

Smith, Patricia L. (1990) Professor ....................... Professional Roles/ Mental Health Nursing Dean, College of Nursing
B.S.N., 1964, Northwestern State University;
M.S.N., 1978, Medical College of Georgia;
Ed.D., 1989, University of Tennessee-Knoxville.

Stewart-Glen, Jennifer (2004) Assistant Professor ... Family/Community Nursing
B.S.N., 1977, Radford University;
M.S.N., 2000, George Washington University.

Trumbley, Sharon G. (1993) Assistant Professor ..... Family/Community Nursing
B.S.N., 1971, Columbus University;
M.S.N., 1977, Boston College.

Ume-Nwagbo, Pearl N. (1997) Assistant Professor ............... Family/ Community Nursing
B.S.N., 1981, A&T State University;
M.S.N., 1994, East Tennessee State University.

Wachs, Joy E. (1993) Professor ....................... Family/Community Nursing
B.S.N., 1976 and M.S., 1980, University of Wisconsin;
Ph.D., 1986, University of Illinois-Chicago;
ETSU Distinguished Faculty Award, 2000.

Walls, Jennie E. (1993) Associate Professor ........ Family/Community Nursing
B.S.N., 1972, East Tennessee State University;
M.S.N., 1976, University of Tennessee-Memphis.

Webb, Melessia D. (2001) Assistant Professor ............... Adult Nursing

COLEGE OF PUBLIC AND ALLIED HEALTH

B.S., 1974, Walla Walla College;
M.D., 1977, and M.P.H., 1989, Loma Linda University;
Ph.D., 2002, University of Texas.

B.S., 1985 and M.S., 1987, University of North Carolina—Chapel Hill;
Ph.D., 1999, Ohio State University.
Barnhart, Robert C. (1996) Assistant Professor ....... Physical Therapy
Academic Coordinator of Clinical Education
B.A., 1977, West Virginia Wesleyan College;
Certificate Physical Therapy, 1979, Emory University;
M.S., 1992, University of Tennessee-Knoxville.

Bishop, Greg S. (1977) Professor ......................... Environmental Health
B.S.E.H., 1969 and M.S.E.H., 1973, East Tennessee State University;
Ph.D., 1977, University of Kansas.

Bishop, Wilise S. (1978) Professor ......................... Public Health
Vice President for Administration and Chief Operating Officer
B.S.N., 1970, Medical College of Virginia;
M.S.Ed., 1976, University of Southern California;
M.S.N., 1978, Virginia Commonwealth University;
D.P.A., 1989, University of Southern California.

Boggs, Teresa L. (1998) Assistant Professor .............. Communicative Disorders

Bowers, Julie L. (1993) Assistant Professor .............. Health Sciences
B.S., 1984, East Tennessee State University;
M.S., 1987, University of Tennessee-Knoxville.

Breese, Ute H. (2000) Assistant Professor ............... Physical Therapy
B.S., 1977, State University of New York;

Burrow, Troy E. (2000) Instructor ......................... Environmental Health
B.S.E.H., 1965, Henderson State University;
M.S.E.H., 1974, East Tennessee State University.

Chakraborty, Ranjan N. (2001) 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., 1978, East Carolina University;
Ph.D., 1997, Vanderbilt University.

Cherry, Shirley J. (2001) Assistant Professor ............. Radiography Director, Radiography and Imaging Sciences
B.S., 1990, Salem-Teikyo University;

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B.S., 1996, Clarkson University;
M.S., 1997, Colorado State University, Fort Collins, CO;
Ph.D., 2002, Colorado State University, Golden, CO.

Currie, William D. (1993) Associate Professor ............ Health Sciences
B.S., 1982, University of Guelph, Ontario;
M.S., 1986 and Ph.D., 1989, University of Saskatchewan.

Davenport, Mary Jo (1997) Assistant Professor .......... Physical Therapy
B.S. and Certificate in Physical Therapy, 1973, University of Michigan;
M.S., 1990, Vanderbilt University.

Dotson, Deborah L. (2003) Assistant Professor .......... Dental Hygiene

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) Instructor ............................ Physical Therapy
B.A., 1989, Wake Forest University;
M.A., 1995, Appalachian State University;

Elangoan, Saravanan (2005) Assistant Professor ...... Communicative Disorders
B.Sc., 1996 and M.Sc., 1998, All India Institute of Speech and Hearing;
Ph.D., 2005, East Carolina University.

Fagelson, Marc A. (1996) Associate Professor ............ Communicative Disorders
B.A., 1986, Columbia University, School of General Studies;
M.S., 1990, Columbia University, Teachers College;
Ph.D., 1995, University of Texas, Austin.

Farrow, Jeff R. (1993) Medical Director .......... Cardiopulmonary Science
B.S., 1981, Baylor University;
M.D., 1985, University of New Mexico, Albuquerque.

Faust, Charles C. (1986) Associate Professor .......... Program Director, Dental Hygiene
B.S., 1976, University of Southwestern Louisiana;
B.S., 1980, Northeast Louisiana University;
M.Ed., 1985, University of Southwestern Louisiana;
Ed.D., 1997, University of Tennessee.

B.S., 1974, California Baptist College;

Flowers, Joanne Walker (1998) Associate Professor .... Chair, Public Health
B.S., 1975, Central State University;
M.S.E.H., 1981, East Tennessee State University;
M.P.H., 1985, University of Pittsburgh;
Ph.D., 1992, University of Texas.

Forsman, Allan D. (1998) Associate Professor ............ Health Sciences
B.S., 1984, University of North Dakota;
M.S., 1989 and Ph.D., 1991, University of North Dakota School of Medicine.

Gallagher, Michael T. (1989) Professor ............ Chair, Health Sciences
B.S., 1966, University of Houston;
M.S., 1970, Northwestern University;
Ph.D., 1974, Baylor College of Medicine.

Goodrow, Bruce A. (1988) Professor ................. Public Health
B.S., 1967, West Texas State University;
M.P.H., 1970, University of Texas;
Ed.D., 1974, University of Tennessee.

Hopson, Victor W. (1977) Associate Professor .......... Dental Hygiene
B.A., 1985, University of California-Santa Cruz;
Ph.D., 2001, University of Alabama-Birmingham.

Keene, Kevin S. (2004) Assistant Professor, Cardiopulmonary Science
B.S., 2001 and M.S., 2002, Mountain State University.

King, Karen D. (1990) Professor ............................. Dental Hygiene
A.S., 1979 and B.S., 1981, East Tennessee State University;
M.H.Ed., 1983, Medical College of Georgia.

Lampson, Bert C. (1998) Associate Professor .............. Health Sciences
B.S., 1977, Delaware Valley College;
M.S., 1981 and Ph.D., 1986, University of Missouri-Columbia, School of Medicine.

Littleton, Mary Ann (2002) Assistant Professor .......... Public Health
B.A., 1983, University of California-Berkeley;
M.P.H., 1987, University of California-Davis;
Ph.D., 1990, University of California-Berkeley.

Maier, Kurt J. (2000) Assistant Professor .......... Environmental Health
B.A., 1978, University of California-Berkeley;
M.S., 1982, California State-Hayward;
Ph.D., 1990, University of California-Davis.

Masini, Douglas E. (2001) Assistant Professor ........ Program Director, Cardiopulmonary Science
A.S., 1983, University of Toledo;
B.S., 1990, Regents College;
M.A., 1997, Tufts University,

McCoy, Gene F. (1966) Associate Professor .......... Health Sciences
B.S., 1964 and M.A., 1966, East Tennessee State University;
M.S.P.H., 1969, University of North Carolina.

McRea, Chris (2004) Assistant Professor ................. Communicative Disorders
B.S., 1998 and M.S., 2000, University of Central Florida;
Ph.D., 2004, Florida State University.

Metts, Tricia (2006) Assistant Professor .......... Environmental Health
B.S., 1989 and M.S., 1991, University of Wisconsin, Eau Claire, WI;
Ph.D., 2004, University of Michigan, Ann Arbor, MI.

Mustain, Eric L. (1990) Associate Professor .......... Health Sciences
B.A., 1974, University of Missouri-Columbia;
Ph.D., 1984, University of Colorado Health Sciences Center.

Nunley, Rebecca L. (1998) Associate Professor .. Dental Hygiene
A.S., 1976 and B.S., 1979, East Tennessee State University;
D.D.S., 1985, University of Texas Health Sciences Center, San Antonio.
Osborne, John G. (1994) Assistant Professor .......... Health Sciences
B.S., 1971, Tennessee Technological University;
M.Ed., 1977, Middle Tennessee State University;
Ph.D., 1992, University of Kentucky, College of Medicine.

Panus, Peter C. (1995) Associate Professor .......... Physical Therapy
B.A., 1979, Huntington College;

Perry, Thomas L., Jr. (1960) Associate Professor ....... Health Sciences

Powers, C. Laraine (1995) Associate Professor ........... Health Sciences
B.S., 1983-Memphis State University;
M.S., 1987, University of Tennessee-Knoxville;
Ph.D., 1994, University of Tennessee-Memphis.

Proctor-Williams, Kerry (2002) Assistant Professor .......... Communicative Disorders
B.Sc., 1980 and M.Ci.Sc., 1984, University of Western Ontario;
A.B.D., University of Kansas.

Roh, Chui-Young (2003) Assistant Professor ............ Public Health
B.A., 1997 and M.A., 1999, Inha University;
M.P.A., 1992, New York University;
Ph.D., 2002, University of Colorado-Denver.

Samples, Agnes B. (2001) Instructor ..................... Public Health

Samples, Donald A. (1990) Associate Professor ...... Chair, Allied Health Sciences
B.B.A., 1980, East Tennessee State University;
M.S., 1993, University of Tennessee-Knoxville;

Scherer, Nancy J. (1992) Professor ..................... Chair, Communicative Disorders
B.S., 1971 and M.S., 1972, University of Wisconsin, Madison;
Ph.D., 1980, University of Washington.

Scheuerman, Phillip R. (1986) Professor ............ Chair, Environmental Health

Silver, Kenneth Z. (2003) Assistant Professor .......... Environmental Health
B.S., 1982, University of Massachusetts-Amherst;
M.S., 1990, Harvard University;
D.Sc., 2003, Boston University.

Smurzynski, Jack (2003) Associate Professor .......... Communicative Disorders
B.A., 1974, Music School of Warsaw, Poland;
M.Sc., 1976, Technical School of Warsaw, Warsaw, Poland;
Ph.D., 1987, Technical School of Wroclaw, Wroclaw, Poland.

Stoots, J. Michael (1998) Assistant Professor .......... Public Health
B.S., 1987 and M.P.H., 1990, East Tennessee State University;
Ed.D., 2001, University of Tennessee.

Williams, A. Lynn (1995) Professor ..................... Communicative Disorders
B.S., 1978 and M.S., 1980, West Virginia University;
Ph.D., 1988, Indiana University.

Williams, Burl R. Jr. (1994) Associate Professor .......... Health Sciences
B.S., 1969, Northeastern State College;
M.S., 1972, Kent State University;
Ph.D., 1991, University of Montana.

Williams, Duane A. (1994) Associate Professor .......... Chair, Physical Therapy
B.S. and Certificate in Physical Therapy, 1970, Kansas University;
M.A., 1972, University of Iowa.

Wu, Tiejian (2002) Assistant Professor ..................... Public Health
M.D., 1983 and M.S., 1986, Shandong University;
Ph.D., 1999, State University of New York-Buffalo.

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