East Tennessee State University
Johnson City, Tennessee

Vol. XCVII    April 2010    No. 11

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

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

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

POSTMASTER: send address changes to:
East Tennessee State University
School of Graduate Studies
Box 70720
Johnson City, Tennessee 37614-1707

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

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

Public higher education in Tennessee is coordinated by the Tennessee Higher Education Commission and consists of two systems — The University of Tennessee campuses, governed by the University of Tennessee Board of Trustees, and the state universities, community colleges, and technology centers governed by the Tennessee Board of Regents. The General Assembly created the Commission in 1967 to achieve coordination and unity among the programs of Tennessee's public post-secondary institutions and to serve as a primary source of information concerning higher education in Tennessee.
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East Tennessee State University Mission Statement
Approved by the Tennessee Board of Regents
January 2010

East Tennessee State University prepares students to become productive, enlightened citizens who actively serve their communities and our world. Education is the university's foremost goal. ETSU provides outstanding programs of study, enhanced access to education, and distinctive educational and research opportunities to attract students from around the region and the world. ETSU affirms that a diverse population is necessary for the intellectual, social, economic, and professional development of our campus and regional communities. Innovation and integration of educational programs, opportunities and scholarly activities enable ETSU to enrich the cultural and intellectual environment, advance economic development, and increase the level of educational attainment of our community and region. Innovation is advanced through entrepreneurial initiatives, interdisciplinary collaboration, and community and international partnerships. The research mission of ETSU advances scholarly and creative activity that enhances the teaching and learning environment and benefits the regional, national, and global communities we serve.

ETSU awards degrees in over one hundred baccalaureate, masters and doctoral programs, including distinctive interdisciplinary programs. The university provides strong, comprehensive educational, research, and service programs in the health sciences that advance the health and wellness of people throughout Tennessee and Southern Appalachia and of rural populations around the world. ETSU affirms the value of a liberal education and life-long learning by providing broadly enriching experiences through opportunities such as honors education, student research and creative activities, international study, community service, internships, and professional development. ETSU also affirms the importance of a total college experience by offering a rich campus life of cultural and artistic programs, diverse student activities, a variety of residential opportunities, and outstanding recreational and intercollegiate athletic programs.

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

Smoking Policy, ETSU

Effective August 22, 2008, ETSU is a Tobacco-Free Campus, with smoking and all other tobacco usage permitted only in private vehicles. This policy applies to all university buildings/grounds; ETSU-affiliated off-campus locations, and clinics; any buildings owned, leased or rented by ETSU in all other areas; and ETSU facilities located on the campus of the James H. Quillen Veterans Affairs Medical Center at Mountain Home. Tobacco use is also prohibited in all state vehicles. This tobacco-free policy is in effect 24 hours a day year round.

Background: The university promotes a healthy, sanitary environment free from tobacco smoke and tobacco-related debris. The ETSU community acknowledges that long-term health hazards may accrue to people who use tobacco products or who are subjected to second-hand smoke. The failure to address the use of tobacco products on campus would constitute a violation of the American with Disabilities Act, the Vocational Rehabilitation Act and Tennessee law.

Support: Understanding the addictive nature of tobacco products, ETSU will make every effort to assist those who may wish to stop using tobacco. The university offers current information about available resources via http://www.etsu.edu/humanres/smokingcessationresources.htm.

Compliance: It is the responsibility of all members of the ETSU community to comply with this Tobacco-Free Campus Policy. Violations of the policy will be dealt with in a manner that is consistent with university procedures. There shall be no reprisals against anyone reporting violations of this policy.

Campus Security Report

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

Student Conduct, Rights, and Responsibilities

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

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

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

East Tennessee State University is committed to respecting all members of the university community and providing fair treatment regarding complaints by students. The objective of the Student Complaint Policy and Procedure is to ensure that concerns and complaints of undergraduate or graduate students are addressed fairly and are resolved promptly. Complaints usually involve actions affecting students that are alleged to be unjust, inequitable, or create unnecessary hardships. A student may pursue this complaint procedure if he or she believes a problem is not governed by other complaint or appeal procedures at the university (refer to Selected Appeal Policies, the Spectrum, and the ETSU catalogs for other examples). The colleges of Medicine and Pharmacy have their own student complaint policies; complaints should be directed to appropriate personnel as identified by those colleges.

East Tennessee State University seeks to provide students, staff and faculty members with a safe and secure learning environment, free of crime and/or violations motivated by discrimination, sexual and other bias-related harassment. There are two important complaint policies not governed by the Student Complaint Policy and Procedure: Sexual, Racial, and Other Harassment and Hate Crimes and Bias-Related Incidents. These types of complaints should be filed with the Special Assistant to the President for Equity and Diversity/Affirmative Action Director or, when a charge is by one student against another student with the Dean of Students according to the procedures described in these policies.

Procedure: When a concern occurs, the student is encouraged to discuss it with the appropriate faculty member or administrator. Often a resolution or an answer can be attained informally. If an informal approach is neither successful nor advisable, the student should use the Student Complaint Policy and Procedure. The procedure for filing student complaints governed by this policy is as follows:

Step 1: To submit a complaint a student must complete the official Student Complaint Form and send it via email attachment, within ten working days of the incident. Graduate students submit the materials to the dean of the college where the issue(s) arose and undergraduate students submit to the Dean of the School of Graduate Studies. If the claim occurs within ten working days from the date of the decision. The student will be invited to discuss the complaint with that individual who will attempt to determine the validity of the complaint, and in the case of a valid complaint, seek resolution, including administrative action. He or she will communicate his or her decision on the Student Complaint Form and make every effort to do so within ten working days from the conclusion of the process.

Step 2: If a student wishes to appeal the decision made in Step 1, he or she must submit the Student Complaint Appeal Form A and the completed Student Complaint Form via email attachments to the appropriate dean or administrator within ten working days from the date of the decision. Undergraduate students submit the materials to the dean of the college where the issue(s) arose and graduate students submit to the Dean of the School of Graduate Studies. In the case of a complaint involving a director, the student submits materials to the next level administrator. The student will be invited to discuss the complaint with that individual who will attempt to determine the validity of the complaint, seek resolution, including possible administrative action. He or she will communicate his or her decision on Student Complaint Appeal Form A and make every effort to inform the student within ten working days of the conclusion of the appeal.

Step 3: If the student believes that he or she has not been afforded due process the student must submit Student Complaint Appeal Form B together with the Student Complaint Appeal Form A and the Student Complaint Form via email attachments to the vice president of the university division in which the complaint occurred within ten working days from the date of the decision. The vice president will make the final determination about the matter and communicate his or her decision on Student Complaint Appeal Form B and make every reasonable effort to submit his or her decision to the student within ten working days from the conclusion of this appeal. The determination will include reasons for the decision and direct a remedy, if any, to the student complaint.

Documentation: A record of all complaints and their resolution will be documented at each level of the review process by the appropriate administrator.

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’s rights guaranteed by the Federal and State Constitutions or statutorily created legislation include:

1. Freedom of inquiry, freedom of speech, and freedom of expression that is respectful or sensitive to the rights of others.
2. Freedom from unreasonable search and/or seizure of person, or personal property.
3. The right to peaceably assemble, in accordance with federal, state, local, and ETSU regulations.
4. Religious freedom and a clear division of church and state.
5. Freedom from discrimination or harassment on the basis of gender, age, race, color, religion, national origin, or other protected status.
6. Freedom to evaluate courses, programs, and services, and provide input to appropriate segments of the campus administration.
7. The right to due process.
8. 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.
9. The right to due process.
10. The right to participate in the decision-making process of the university through the Student Government Association (SGA), other student governance organizations, and membership on university standing and advisory committees.

The Tennessee Board of Regents grants additional rights including:

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

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

1. Classes meet as scheduled, and begin and adjourn on time.
2. Course requirements are clearly specified.
3. The instructor is prepared for class and possesses both oral and written communications skills.
4. In an academic year, grades and tests 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. Notice and 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.
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<td>Apr. 30**</td>
<td>Preferred date to receive application for graduate admission for Fall (International)</td>
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<tr>
<td>June 1**</td>
<td>Preferred date to receive application for graduate admission for Fall (Domestic)</td>
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<td>Aug. 28</td>
<td>Classes begin</td>
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<td>Sept. 3</td>
<td>Last day to late register or late add a course</td>
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<td>Sept. 6</td>
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<td>Sept. 10</td>
<td>Last day to drop a course without a grade of &quot;W&quot;</td>
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<td>Sept. 13</td>
<td>Last day for graduate students to file intents to graduate, committee forms, and forms for candidacy and programs of study for Dec. 2010 graduation</td>
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<td>Oct. 18-19</td>
<td>Fall Break</td>
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<td>Oct. 25</td>
<td>Last day to schedule oral exams with the School of Graduate Studies for Dec. 2010 graduation</td>
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<td>Oct. 25</td>
<td>Last day to drop a course without dean's permission</td>
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<td>Nov. 8</td>
<td>Last day to complete oral examinations for December graduation</td>
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<td>Last day to file initial review copies of theses and dissertations with the School of Graduate Studies for Dec. 2010 graduation</td>
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<td>Nov. 25-26</td>
<td>Thanksgiving holidays</td>
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<td>Dec. 8</td>
<td>Last day to withdraw from the university</td>
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<td>Last day of classes</td>
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<td>Dec. 11-16</td>
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<td>Nov. 1**</td>
<td>Preferred date to receive applications for graduate admission for Spring (Domestic)</td>
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<td>Jan. 13</td>
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</tr>
<tr>
<td>Jan. 17</td>
<td>Martin Luther King holiday</td>
</tr>
<tr>
<td>Jan. 19</td>
<td>Last day to late register or late add a course</td>
</tr>
<tr>
<td>Jan. 24</td>
<td>Last day for graduate students to file intents to graduate, committee forms, and forms for candidacy and programs of study for May 2011 graduation</td>
</tr>
<tr>
<td>Jan. 26</td>
<td>Last day to drop a course without a grade of &quot;W&quot;</td>
</tr>
<tr>
<td>March 7-12</td>
<td>Spring Break</td>
</tr>
<tr>
<td>March 9</td>
<td>Last day to drop a course</td>
</tr>
<tr>
<td>March 14</td>
<td>Last day to schedule oral exams with the School of Graduate Studies for May 2011 graduation</td>
</tr>
<tr>
<td>March 28</td>
<td>Last day to complete oral examinations for May graduation</td>
</tr>
<tr>
<td>April 4</td>
<td>Last day to file initial review copies of theses and dissertations with the School of Graduate Studies for May 2011 graduation</td>
</tr>
<tr>
<td>April 22</td>
<td>Flexible Day - university closed</td>
</tr>
<tr>
<td>April 27</td>
<td>Last day to withdraw from the university</td>
</tr>
<tr>
<td>April 29</td>
<td>Last day of classes</td>
</tr>
<tr>
<td>April 30-May 5</td>
<td>Final examinations</td>
</tr>
<tr>
<td>May 2</td>
<td>Last day to pay microfilming fees in the Office of the Comptroller</td>
</tr>
<tr>
<td>May 4</td>
<td>Last day to file final copies of theses and dissertations with the School of Graduate Studies</td>
</tr>
<tr>
<td>May 7</td>
<td>Commencement</td>
</tr>
<tr>
<td><strong>SUMMER TERM 2011</strong></td>
<td></td>
</tr>
<tr>
<td>Feb. 1**</td>
<td>Preferred date to receive applications for graduate admission for Summer (International)</td>
</tr>
<tr>
<td>March 15**</td>
<td>Preferred date to receive applications for graduate admission for Summer (Domestic)</td>
</tr>
<tr>
<td>April 4</td>
<td>Registration Begins</td>
</tr>
<tr>
<td>May 16**</td>
<td>Classes begin</td>
</tr>
<tr>
<td>May 17</td>
<td>Last day to late register or late add a Pre-Summer course</td>
</tr>
<tr>
<td>May 20</td>
<td>Last day to drop a course without grade of &quot;W&quot;</td>
</tr>
<tr>
<td>May 26</td>
<td>Last day to drop a course without dean's permission</td>
</tr>
<tr>
<td>May 30</td>
<td>Memorial Day holiday</td>
</tr>
<tr>
<td>June 1</td>
<td>Last day to withdraw Session 1</td>
</tr>
<tr>
<td>June 3</td>
<td>Last day of classes</td>
</tr>
<tr>
<td><strong>Complete Session, May 16 - August 12</strong></td>
<td></td>
</tr>
<tr>
<td>June 8</td>
<td>Last day to register or late add a Session 1 course</td>
</tr>
<tr>
<td>June 10</td>
<td>Last day for graduate students to file intents to graduate, committee forms, and forms for candidacy and programs of study for Aug. 2011 graduation</td>
</tr>
<tr>
<td>June 13</td>
<td>Classes begin</td>
</tr>
<tr>
<td>June 14</td>
<td>Last day to drop a Session 1 course</td>
</tr>
<tr>
<td>June 16</td>
<td>Last day to drop a Session 1 course</td>
</tr>
<tr>
<td>June 17</td>
<td>Last day to drop a course without a grade of &quot;W&quot;</td>
</tr>
<tr>
<td>June 24</td>
<td>Last day to drop a Session 2 course</td>
</tr>
<tr>
<td>June 29</td>
<td>Last day to drop a Session 2 course</td>
</tr>
<tr>
<td>July 6</td>
<td>Last day to withdraw Session 1</td>
</tr>
<tr>
<td>July 4</td>
<td>Independence Day holiday</td>
</tr>
<tr>
<td>July 8</td>
<td>Last day of Session 1</td>
</tr>
<tr>
<td><strong>Session 1, June 6 - July 8</strong></td>
<td></td>
</tr>
<tr>
<td>June 8</td>
<td>Last day to register or late add</td>
</tr>
<tr>
<td>June 10</td>
<td>Last day to withdraw Session 1</td>
</tr>
<tr>
<td>June 17</td>
<td>Last day to drop a course without grade of &quot;W&quot;</td>
</tr>
<tr>
<td>June 24</td>
<td>Last day to drop a Session 2 course</td>
</tr>
<tr>
<td>June 29</td>
<td>Last day to drop a Session 2 course</td>
</tr>
<tr>
<td>July 6</td>
<td>Last day to withdraw Session 1</td>
</tr>
<tr>
<td>July 4</td>
<td>Independence Day holiday</td>
</tr>
<tr>
<td>July 8</td>
<td>Last day of Session 1</td>
</tr>
<tr>
<td><strong>Session 2, July 11 - August 12</strong></td>
<td></td>
</tr>
<tr>
<td>July 8</td>
<td>Last day to file initial review copies of theses and dissertations with the School of Graduate Studies for Aug. 2011 graduation</td>
</tr>
<tr>
<td>July 11</td>
<td>Classes begin</td>
</tr>
<tr>
<td>July 13</td>
<td>Last day to register or late add</td>
</tr>
<tr>
<td>July 15</td>
<td>Last day to drop a course without grade of &quot;W&quot;</td>
</tr>
<tr>
<td>July 29</td>
<td>Last day to drop a Session 2 course</td>
</tr>
<tr>
<td>Aug. 10</td>
<td>Last day to pay microfilming fees in the Office of the Comptroller</td>
</tr>
<tr>
<td>Aug. 10</td>
<td>Last day to withdraw Session 2 and Dual Session</td>
</tr>
<tr>
<td>Aug. 12</td>
<td>Last day to file final copies of theses and dissertations with the School of Graduate Studies for Aug. 2011 graduation</td>
</tr>
</tbody>
</table>

*Individual graduate programs may have earlier application deadlines.
Please see program admission requirements in catalog.
## Graduate Coordinators

### College of Arts and Sciences
**Dr. Gordon Anderson, Dean**
- **Art** - Patricia Mink
- **Biological Sciences**
  - Biology - Dr. Mike Zavada
  - Microbiology - Dr. Bert Lampson
  - Paleontology - Dr. Blaine Schubert
- **Chemistry** - Dr. Chu-Ngi Ho
- **City Management, Public Administration** - Dr. David Briley
- **Communication, Professional** - Dr. Jack Mooney
- **Criminal Justice and Criminology** - Dr. Steven Ellwanger
- **English** - Dr. Shawna Lichtenwalner
  - Teaching English as a Second Language - Dr. Theresa McGarry
- **History** - Dr. Mel Page
- **Mathematics** - Dr. Jeff Knisley
- **Psychology**
  - Clinical - Dr. Peggy Cantrell
  - General - Dr. Russ Brown
- **Public Administration** - Dr. David Briley
- **Social Work** - Dr. Barbara Grissett
- **Sociology** - Dr. Leslie McCallister
- **Urban Planning and Economic Development**
  - certificates - Dr. David Briley

### College of Business and Technology
**Dr. Linda R. Garceau, Dean**
**Dr. Martha Pointer, Associate Dean for Graduate Studies**
- **Accountancy** - Dr. Gary Burkette
- **Business Administration, Graduate Certificate** - Dr. Martha M. Pointer
- **Business Administration (M.B.A.)** - Dr. Martha M. Pointer
- **Computer Science** - Dr. Martin Barrett; Dr. Phillip Pfeiffer
- **Emerging Technologies Certificate** - Dr. Martin Barrett
- **Entrepreneurial Leadership Certificate** - Dr. Andrew Czuchry
- **Technology** - Dr. Andy Clark

### College of Clinical and Rehabilitative Health Sciences
**Dr. Nancy J. Scherer, Dean**
- **Allied Health** - Dr. Ester L. Verhovsek
- **Audiology and Speech-Language Pathology**
  - Audiology - Dr. Patricia Chase
  - Speech Pathology - Dr. Vijay Guntupalli
- **Clinical Nutrition** - Ms. Elizabeth Lowe
- **Physical Therapy** - Ms. Mary Jo Davenport

### Claudius G. Clemmer College of Education (continued)
**Dr. Hal Knight, Dean**
- **Educational Media and Technology**
  - Educational Communications and Technology
    - Concentration - Dr. Harold Lee Daniels
  - School Library Media Concentration - Ms. Linda Steele
- **Elementary Education** - Dr. Leslie Perry
- **Secondary Education** - Dr. Norma MacRae
- **M.A.T. (Teacher Education with Multiple Levels)** - Dr. Aimee Govett
  - and Dr. Tammy Barnes

### Claudius G. Clemmer College of Education (continued)
**Dr. E. Jane Melendez**
- **Storytelling** - Dr. Joseph Sobol
- **Advanced Studies in Teaching and Learning (RODP)** - Dr. Martha Collins
- **Educational Leadership and Policy Analysis**
  - Administrative Endorsement Concentration - Dr. Eric Glover
  - Post-Secondary, and Private Leadership - Dr. Jim Lampey
  - Teacher and Classroom Leadership - Dr. Virginia Foley
  - Counseling Leadership Concentration - Dr. Jim Bitter
  - School Leadership Concentration - Dr. Pam Scott
  - Counseling - Dr. Janna Scarborough
  - Early Childhood - Dr. Pamela Evanshen, Dr. Amy Malkus
  - Kinesiology, Leisure, and Sport Sciences
    - Physical Education K-12 - Dr. Diana Mozen
    - Exercise Physiology and Performance - Dr. Michael Stone
- **Sport Management** - Mr. Chris Ayres
- **Special Education** - Dr. James Fox

### James H. Quillen College of Medicine
**Dr. Philip C. Bagnell, Dean**
**Dr. Mitchell E. Robinson, Associate Dean for Graduate Studies**
- **Anatomy and Cell Biology** - Dr. Dennis DeFoe
- **Biochemistry** - Dr. Yue Zou
- **Biomedical Sciences** - Dr. Mitchell E. Robinson
- **Microbiology** - Dr. Robert Schoborg
- **Pharmacology** - Dr. Alok Agrawal
- **Physiology** - Dr. Tom Ecay

### College of Nursing
**Dr. Wendy M. Nehring, Dean**
- **Ph.D. in Nursing** - Dr. Sadie Hutson
- **M.S.N.** - Dr. Kathleen Rayman
- **Family Nurse Practitioner** - Dr. Kathleen Rayman
- **Nursing Administration** - Dr. Janne Dunham-Taylor
- **Clinical Nurse Leader Programs** - Dr. Kathleen Rayman
- **Regents Online Degree Program** - Dr. Nancy Granberry

### College of Public Health
**Dr. Randolph F. Wykoff, Dean**
- **Biostatistics** - Dr. James Anderson
- **Community Health** - Dr. James Florence
- **Environmental Health** - Dr. Kurt Maier
- **Epidemiology Concentration and Epidemiology Certificate** - Dr. James Anderson
- **Gerontology Certificate** - Dr. James Florence
- **MPH, Health Care Management Certificate** - Dr. Brian C. Martin
- **Health Services Administration** - Dr. Amal Khouri
- **Rural Health Graduate Certificate** - Dr. Mary Ann Littleton
- **Dr.P.H., Community Health, and Epidemiology** - Dr. Rob Pack

### School of Continuing Studies and Academic Outreach
**Dr. Rick Osborn, Dean**
- **Liberal Studies** - Dr. Marie Tedesco
- **Archival Studies Certificate** - Dr. Marie Tedesco
- **Professional Studies** - Dr. Jo Lobertini
The Graduate Council
Voting Members

David Arnall, Ph.D. ................................................................. Member-at-Large
Amy Arnold, M.S.L.S. .............................................................. Library
Stacy D. Brown, Ph.D. ............................................................. The Bill Gatton College of Pharmacy
Ranjan Chakraborty, Ph.D. ......................................................... College of Public Health
William Scott Champney, Ph.D. .............................................. Quillen College of Medicine
Wallace Dixon, Ph.D. ............................................................... Member-at-Large
Eric Glover, Ed.D. ................................................................. Member-at-Large
Don Hoover, Ph.D. ................................................................. The Bill Gatton College of Pharmacy
Thaddeus Jablonski ................................................................. Graduate Student Member-at-Large
Lori Marks, Ph.D. ................................................................. Clemmer College of Education
Martha Pointon, Ph.D. ............................................................. College of Business and Technology
Kathleen Rayman, Ph.D. ........................................................ College of Nursing
Marie Tedesco, Ph.D. ............................................................. School of Continuing Studies
Christine Trivette .................................................................. Graduate Student Member-at-Large
Paul Trogen, Ph.D. ................................................................. Faculty Senate
Ester L. Verhovek, Ed.D. ........................................................ College of Clinical and Rehabilitative Health Sciences
Jon Webb, Ph.D. .................................................................. College of Arts and Sciences

Non-Voting Members

Cecilia A. McIntosh, Ph.D. ...................................................... Dean of the School of Graduate Studies
Jeffrey P. Beck, Ph.D. ............................................................. Associate Dean of the School of Graduate Studies
Maria Costa ........................................................................ International Programs
William Duncan, Ph.D. .......................................................... Vice Provost for Research and Sponsored Programs
F. Wayne Gillespie, Ph.D. ....................................................... Assistant Dean of the School of Graduate Studies
LaDonna Hutchins ............................................................... Office of the Registrar
Billie Lancaster ................................................................. Office of the Registrar
Mary Ellen Musick ................................................................ Office of Planning and Analysis, Data Management

Family Educational Rights and Privacy Act

The Family Educational Rights and Privacy (FERPA) affords students certain rights with respect to their education records. They are:

1. The right to inspect and review the student's education records within 45 days of the day the university receives a request for access.
   Students should submit to the registrar, head of the academic department, or other appropriate official, written requests that identify the record(s) they wish to inspect. The university official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the university official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

2. The right to request the amendment of the student's education records that the student believes are inaccurate or misleading. Students may ask the university to amend a record that they believe is inaccurate or misleading. They should write the university official responsible for the record, clearly identify the part of the record they want changed, and specify why it is incorrect or misleading. If the university decides not to amend the record as requested by the student, the student will be notified of the decision and the basis for the university's decision. The student then has the right to place a written statement with the education record, the disclosure of which will not obscure the inaccurate or misleading information. If the student wishes to contest this decision in writing, the statement will be included with the student's education record and will be provided to any organization to which the student has released information derived from the education record.

3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent.
   One exception which permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the university in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the university has contracted (such as an attorney, auditor, or collection agent); or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by East Tennessee State University to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is: Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue, S.W., Washington, DC 20202-4605.
The School of Graduate Studies

The mission of the School of Graduate Studies is to foster post-baccalaureate programs of study and scholarship that are recognized for their excellence and contributions to society. The School of Graduate Studies will provide an environment that stimulates:

- Advanced understanding of the concepts, issues, and practice of a discipline;
- Interdependent thought and the ability to generate new knowledge;
- The ability to contribute significantly to the academic community, professions, and society; and
- Diversity among ideas, programs, and people.

Graduate students assume full responsibility for knowledge of the policies and regulations of the Graduate School and special requirements of individual degree programs.

Program Administration

The Dean of the School of Graduate Studies is the administrator of graduate education at the university. The major duties of the office include admission and classification of graduate students as determined by university policy, administration of all regulations and policies governing graduate education, and maintenance of standards prescribed by the governing board and various university and program accrediting agencies. The Dean is responsible for the interpretation and implementation of the actions of the Graduate Council.

Graduate Council

The Graduate Council is an advisory body that assists the Dean of the School of Graduate Studies in administering the graduate programs at East Tennessee State University. The Graduate Council reviews all curriculum changes in graduate courses or programs and approves faculty for graduate faculty status. However, the Council’s main task is to discuss, review, and advise on all matters concerning Graduate School policies. Any ETSU faculty member may offer items for discussion.

Degree Programs

The School of Graduate studies offers programs of study leading to graduate certificates, various master's degrees, the education specialist degree, and various doctoral degrees. The programs are designed to provide specialized training in professional, academic, and interdisciplinary areas. Specific requirements for each degree program are defined under Courses of Instruction in this catalog.

Graduate Program Specialists

Each graduate program or major is represented by a Graduate Program Specialist who is prepared to assist students with all aspects of the graduate process, from admission through graduation. If you have questions or would like to explore options for graduate study, please contact the appropriate program specialist listed below: Non-degree student applications are processed by Ms. Fiona Goodyear, goodyear@etsu.edu, (423) 439-4707.

<table>
<thead>
<tr>
<th>Graduate Program Specialists</th>
<th><a href="mailto:bennetsg@etsu.edu">bennetsg@etsu.edu</a></th>
<th>(423) 439-4708</th>
<th>Audiology, Biomedical Sciences, Computer Science, Speech Pathology, and one (1) certificate program: Emerging Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sheila Bennett</td>
<td><a href="mailto:bennetsg@etsu.edu">bennetsg@etsu.edu</a></td>
<td>(423) 439-4708</td>
<td>Audiology, Biomedical Sciences, Computer Science, Speech Pathology, and one (1) certificate program: Emerging Technology</td>
</tr>
<tr>
<td>Mary Duncan</td>
<td><a href="mailto:duncanm@etsu.edu">duncanm@etsu.edu</a></td>
<td>(423) 439-4302</td>
<td>Allied Health, Environmental Health, Physical Therapy, Public Health, and five (5) certificate programs: Biostatistics, Epidemiology, Gerontology, Health Care Management, and Rural Health</td>
</tr>
<tr>
<td>Cindy Hill</td>
<td><a href="mailto:hillcc@etsu.edu">hillcc@etsu.edu</a></td>
<td>(423) 439-6590</td>
<td>M.B.A., Accounting, all degrees in Educational Leadership and Policy Analysis, Social Work, and two (2) certificate programs: Business Administration, Entrepreneurial Leadership</td>
</tr>
<tr>
<td>Robin O’Dell</td>
<td><a href="mailto:odell@etsu.edu">odell@etsu.edu</a></td>
<td>(423) 439-6148</td>
<td>Counseling, Early Childhood Education, Elementary and Secondary Education, M.A.T., Educational Media and Technology, Reading/Storytelling, Special Education, Advanced Studies in Teaching and Learning (RODP), and one (1) certificate program: School Library Professional</td>
</tr>
<tr>
<td>Rene Palumbo</td>
<td><a href="mailto:palumbo@etsu.edu">palumbo@etsu.edu</a></td>
<td>(423) 439-6158</td>
<td>Kinesiology, Liberal Studies, Nursing, Public Administration, Technology, and five (5) certificate programs: Advanced Nursing Practice, Advanced Nursing Practice (RODP), Archival Studies, Economic Development, and Urban Planning</td>
</tr>
<tr>
<td>Gail Powers</td>
<td><a href="mailto:powers@etsu.edu">powers@etsu.edu</a></td>
<td>(423) 439-4703</td>
<td>Art, Biological Sciences, Chemistry, Clinical Nutrition, English, History, Mathematics, Microbiology, Communications (Professional), Sociology, Psychology, Professional Studies and one (1) certificate program: Forensic Document Examination</td>
</tr>
</tbody>
</table>
Admission Requirements

Application for admission to graduate study is open to any person with a bachelor's degree from a regionally accredited institution. The transcripts of applicants with bachelor's degrees from nonregionally accredited institutions will be reviewed individually. If additional coursework is required to meet East Tennessee State University's minimum accreditation standards for graduation, it should be specified at the time of admission.

All application materials become the property of the university and will not be forwarded or returned. Incomplete applications are maintained in an active file for 12 months, after which the file is purged. Files in inactive status for 12 months may be purged, after which the student will be required to resubmit all new application materials prior to the deadline dates for the term in which registration/enrollment is anticipated. A postage-paid card to request application materials is included in this catalog, and all materials are available on the web at: http://www.etsu.edu/gradstud/.

Applicants seeking admission to the School of Graduate Studies should have complete applications on file by the following preferred dates: June 1 for the fall semester, November 1 for the spring semester, and March 15 for the summer session. These deadlines are for U.S. residents. International students should follow the calendar listed in the Admission of International Students section of this catalog. Individual programs may have earlier admission deadlines. For this information, students should contact the department whose program they wish to enter. Since decisions regarding financial support (fellowships, assistantships, and scholarships) for the academic year are normally made in March and April of each year, applicants seeking financial assistance and admission for the fall semester are advised to submit completed applications for review by March 1. Applications can be submitted electronically via the web at: http://goldlink.etsu.edu.

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

Application for Admission to a Master's Degree Program

For admission to a master's degree program in the School of Graduate Studies, a 2.5 undergraduate GPA (on a 4.0 scale) is required. Some master's degree programs have higher requirements. Specialist, doctoral, and international students are subject to additional specific requirements and should refer to the appropriate sections in this catalog. Students with less than a 2.5 GPA who wish to apply must address the low GPA in the personal essay (see #4 below).

The following materials must be submitted before an applicant will be considered for admission:
1. Payment of required nonrefundable application fee. Students who previously have been or currently are admitted as non-degree or degree-seeking graduate students may not have to pay the application fee.
2. A completed application form.
3. One official transcript from each undergraduate or graduate institution attended, except previous coursework taken at ETSU.
4. A personal essay.
5. A photostatic copy of the teaching certificate.
6. Four (4) letters of recommendation.

When all pertinent materials are received, the office of graduate admissions will review the application and, if university requirements are met, forward the materials to the graduate program for evaluation. Students must also be sure to meet all program requirements for admission for their applications to be considered. Program admission requirements for the specialist degree are defined under the Department of Educational Leadership and Policy Analysis in this catalog. The final decision to admit or reject an applicant rests with the university through the Dean of the School of Graduate Studies.

Application for Admission to a Doctoral Degree Program

An applicant seeking admission to a doctoral degree program must hold a bachelor's or master's degree. The following materials must be submitted before an applicant will be considered for admission:
1. Payment of required nonrefundable application fee. Students who previously have been or currently are admitted as non-degree or degree-seeking graduate students may not have to pay the application fee.
2. A completed application form.
3. One official transcript from each undergraduate or graduate institution attended, except previous coursework taken at ETSU.
4. A personal essay.
5. Official scores on the general portion of the Graduate Record Examination (GRE).
6. Three (3) letters of recommendation.

Additional specific requirements are listed under the sections pertaining to each doctoral program. When all pertinent materials are received, the office of graduate admissions will review the application and, if university requirements are met, forward the materials to the graduate program for evaluation. Students must also be sure to submit all program requirements for admission for their applications to be considered. Admission to the doctoral program is the primary responsibility of the program coordinator, program admissions committee chair, or designated representative(s). The final decision to admit or reject an applicant rests with the university through the Dean of the School of Graduate Studies.

Admission of International Students

International students must meet the same requirements for admission to the graduate program that apply to citizens of the United States. An international student must have an equivalent four-year bachelor's degree with at least a 'B' average on various grading scales. European students

...
with three-year Bologna bachelor's degrees and Indian students with three-year bachelor's degrees from Indian universities ranked A (3.01-4.0) through the NAAC accreditation process will be considered to have equivalent four-year degrees. The B average requirement on various grading scales would indicate:

- a. 3.0 on a 4.0 scale;
- b. 16 on a 20-point scale;
- c. 80.0 from Chinese institutions;
- d. 1st Class, 2nd Class Honors, or 1st and upper 2nd Division from Indian institutions;
- e. Upper 2nd Class Honors on various British systems.

Other grading systems will be evaluated upon receipt of transcripts. An international student may apply for admission any semester. International student application materials should be received by: April 30 - fall semester; September 30 - spring semester; February 1 - summer session. The School of Graduate Studies must be notified of any change in the entering date after admission has been granted. Individual programs may have early admission deadlines and additional requirements. For this information, students should contact the departments whose program they wish to enter.

The following items must be received before admission will be considered:

1. A completed application form with a nonrefundable application fee.
2. Official or attested university records (including proof of all degrees received), with certified translations if the records are not in English. Records must be attested by the awarding institution; notarized copies and third-party attestations are not acceptable. Individual-year mark sheets from Indian institutions are required; summary mark sheets will not suffice.
3. A personal essay.
4. Certification of English proficiency. Graduate students whose native language is not English must submit a score of 79 (Internet-based), 550 (paper-based) or 213 (computer-based) on the Test of English as a Foreign Language (TOEFL), taken within the past two years; a score of 6.5 on the International English Language Testing System (IELTS); or have received a degree from an accredited U.S. institution. Certain programs may require higher TOEFL scores. (All international students who receive a tuition scholarship or graduate assistantship must sit for an oral English proficiency interview immediately upon their arrival at ETSU.)
5. Documented evidence of financial resources sufficient to support the student with at least U.S. $28,601 per calendar year during the period of enrollment. (Figure subject to change)
6. Official scores on the Graduate Record Examination (GRE) or Graduate Management Admission Test (GMAT), if required.
7. Letters of recommendation or rating forms, if required.
8. All international students are required to have acceptable insurance coverage against illness and accidents. The health and accident insurance must be maintained throughout the student's enrollment at ETSU.
9. Qualified international students may be considered for graduate non-degree admission to ETSU only as (1) visiting students during vacation breaks from other collegiate institutions in the U.S.; (2) non-degree students enrolled in ETSU courses offered outside the U.S.; and (3) non-degree students enrolled in appropriate ETSU campus classes. Students in category 3 who are on ETSU DS2019 (J-1 status) must pursue programs of full-time study approved by the School of Graduate Studies, the Office of International Programs, and the appropriate academic division.

Admission to the School of Graduate Studies is based mainly on academic preparation and potential, though the university retains the right to deny admission on nonacademic grounds, such as emotional maturity and personal deportment. Admission is denied to those applicants who do not qualify for one of the following subcategories of admission.

**Unconditional Admission** – A graduate student accepted unconditionally is a degree-seeking student who has fulfilled all of the School of Graduate Studies requirements and the criteria of the department to which the applicant is applying.

**Conditional Admission** – This category of admission is designed for applicants who are in the process of completing prerequisite courses or degrees or whose credentials are less competitive. Conditional admission may not be granted when significant admission criteria are missing, such as required standardized testing, sufficient letters of recommendation, or in the case of international students, proof of an equivalent U.S. accredited undergraduate degrees.

Conditions will be outlined in the admission letter and must be removed by the date specified. If no date is specified, they must be removed prior to the completion of 15 graduate credit hours or one calendar year, whichever is later. The student must submit a request for unconditional status. The Dean of the School of Graduate Studies will approve or deny the request upon recommendation from the degree program coordinator or program admissions committee. A student who has not met the conditional requirement deadlines will not be allowed to continue to register as a degree-seeking student and cannot be admitted to candidacy until the conditions have been met. Ultimately, failure to meet conditions of admission will result in dismissal from the program.

**Visiting Student Admission** – Admission as a visiting student is reserved for students who plan to earn a limited number of credits for transfer to a college or university where they are enrolled for a degree program. Visiting students may be admitted with a letter of good standing from the college where they are enrolled for a graduate degree program and with completion of a non-degree application.

**Graduate Non-Degree Admission** – This category of admission is for individuals who wish to enroll in graduate courses but who are not admitted to a graduate program at ETSU. These students are expected to have, at a minimum, a bachelor's degree from an accredited institution and must submit an official transcript verifying the bachelor's degree prior to the end of the first term of enrollment. If official proof of degree is not submitted prior to the end of the first term of enrollment, the ETSU transcript showing credit earned in non-degree status will not be released. Departments may exclude non-degree students from designated courses, and it is a department's prerogative to require non-degree students to have its approval prior to registering for any class. ETSU cannot assure a non-degree student that all or any work completed

...
in this status will apply toward a degree. A student may petition to have a maximum of nine credit hours accepted for transfer credit upon subsequent admission to a degree program.

Second Master’s Degrees
A student holding an earned master’s degree from a regionally accredited U.S. institution may qualify for a second master’s degree by completing a minimum of 21 semester hours of ETSU graduate work for thesis programs, or 24 hours of ETSU graduate work for non-thesis programs, approved by the student’s advisory committee. All specific program requirements, with the possible exception of electives or duplicative courses, must be met for the second degree. Such requirements include the comprehensive exam or culminating experience, such as thesis, project, strategic experience, etc. In warranted circumstances, credit used to satisfy approved graduate certificate requirements may be applied toward the second degree.

Dual Degree Programs
In warranted circumstances, a student may seek admission to two master’s programs concurrently. Prior to admission to the second program, approval must be granted by the program coordinator in each program and by the Dean of the School of Graduate Studies. All requirements of both programs and the School of Graduate Studies, including matriculation limits, must be met, with the provision that up to nine hours of graduate coursework may be applied to both programs (thus possibly reducing by nine the total number of hours required for both degrees). Students will not be permitted to enroll simultaneously in a master’s degree or graduate certificate program and in a doctoral degree program at ETSU.

Advanced Admission for Undergraduates
A senior, lacking no more than nine semester hours for graduation at East Tennessee State University, may register for graduate coursework. The total course load for a senior enrolled for graduate coursework may not exceed 12 credit hours. Requirements for the undergraduate degree must be completed during the semester in which the student is allowed to register for part-time graduate work. Petition forms, available in the School of Graduate Studies, must be signed by the undergraduate department chair and the Dean of the School of Graduate Studies.

Admission of Faculty Members
Tenure track faculty or administrative staff holding faculty rank are ineligible to receive a graduate degree from ETSU. Exceptions to this policy may be granted by the Dean of the School of Graduate Studies upon recommendation by the appropriate department chair and college dean when graduate study at ETSU will be a special advantage to the university and when graduate study elsewhere is not feasible. Members of the ETSU faculty may be admitted to the School of Graduate Studies as non-degree students through established procedures. A faculty member will not retain graduate faculty status while matriculating in a graduate program.

Criminal Background Investigation
In Tennessee and nationally, due to legislative and accreditation requirements, many schools, childcare, and health care facilities require that students in health-related professions be required to submit to a Criminal Background Investigation (CBI) before participating in any educational/patient care activities at their sites. These educational/clinical activities are an essential requirement for graduation or subsequent licensure and the inability to complete this requirement may result in as student’s failure to meet the graduation requirements of certain ETSU College of Public Health and College of Clinical and Rehabilitative Health Sciences programs. Students must be aware that they will be required to do the following:

1. Truthfully answer all questions, including those pertaining to felony convictions, on the student undergraduate or graduate application. Students who do not answer the questions truthfully and completely shall not be eligible for acceptance or enrollment. Discovery that the section dealing with felony convictions was not completely or truthfully answered by an enrolled student may result in dismissal.
2. Complete a CBI prior to participating in internship, field placement, or cooperative experiences at an affiliated institution that requires a CBI, as determined by the academic department.
3. Notify the Program Chair of any criminal charges within five (5) working days of their occurrence during enrollment in the program. Failure to notify the Chair of such events may result in immediate dismissal.
4. Check departmental guidelines for procedures for obtaining the CBI.

Requirements for Entering Teacher Training Programs
1. All students wishing to enter approved teacher training programs shall be required to:
   A. Agree to the release of all investigative records to the administrator of the selected teacher training program;
   B. Supply a fingerprint sample and submit to a criminal history records check to be conducted by the Tennessee Bureau of Investigation (TBI); and
   C. Sign an authorization and release form provided by the department or board, authorizing a qualified Tennessee licensed private investigation company by and on behalf of the board to complete a criminal history records check.
2. As used in subdivision (a)(l), “qualified Tennessee licensed private investigation company” means a company that is licensed by the department of commerce and insurance, insured with at least three million dollars ($3,000,000) worth of errors and omissions insurance and carries sufficient indemnification coverage.
3. Any reasonable costs incurred by the TBI in conducting an investigation of an applicant shall be paid by the applicant. The applicant shall be provided a copy of all criminal history records check documentation. In lieu of additional criminal history records checks for subsequent applications to the selected teacher training program, the applicant may submit copies of the applicant’s initial criminal history records check documentation and shall not be required to pay any additional costs.
4. Any criminal history records check performed pursuant to this section shall not be submitted and used for the criminal history records check required under ‘49-5-4 13 for employment by an LEA or child care program as defined in ‘49-1-1 102. [Acts 2007, ch. 454, ‘1]
Advisement and Registration Requirements

Graduate Student Advising

All graduate students must meet with their academic advisors at least once a semester to discuss their program. The student is ultimately responsible for his or her program; however, until an advisor has been assigned, the program coordinator or designee will be responsible for the advising.

Registration Procedures

Registration is available through GoldLink-OnLine. A calendar of these dates appears in the schedule of classes, published online for each term. Students should contact the initial advisor designated in their letter of admission for assistance in planning and approval of their course registration. Students who have not received a letter of admission should contact the School of Graduate Studies. Please refer to the schedule of classes for information on GoldLink-OnLine. It is essential that registration be completed during the regular registration period. Late registration generally cannot be accommodated, but students are welcome to return for the next semester during regular registration.

Readmission-Reapplication

If a student has not been active in a graduate program for more than a year, a readmission form must be filed and approved by the Dean of the School of Graduate Studies prior to re-enrollment.

Enrollment

Every student is required to enroll at the time and in the manner prescribed by the registrar. All charges for the ensuing semester must be paid, or otherwise provided for, before registration is completed.

Continuous Enrollment – Students who wish to use support services of the university (computer, library, laboratories, studios, etc.) and/or require faculty guidance for studies, research, or preparation of a prospectus and are not enrolled for coursework, thesis, or dissertation must be registered for the appropriate non-degree credit course (5990, 6990, 7990) in Readings and Research each term university support or facilities are being used, including summer term. Students who have previously registered for thesis, dissertation, and/or readings and research must be continuously registered for a minimum of one graduate credit hour every subsequent semester, including summer, until completion of the degree.

Readings and Research cannot count toward degree requirements. Candidates for a master's degree with a thesis option must continue to register each semester (minimum of one credit) from the time of the initial registration for 5960-Thesis until the thesis is accepted by the School of Graduate Studies. (Individual programs may require minimum enrollments of up to 3 graduate credits.) No less than three credit hours nor more than six credit hours of thesis may be applied toward the doctoral degree.

Candidates for doctoral degrees must continue to register each semester from the time of the initial registration for 7960-Dissertation until the dissertation is accepted by the School of Graduate Studies. (Individual programs may require minimum enrollments of up to 3 graduate credits.) No less than 12 hours nor more than 21 hours of dissertation credit may be applied toward the doctoral degree.

A student must be enrolled for a minimum of one graduate credit hour during the term of graduation, with one exception: a student who does not meet the deadlines for completing degree requirements, including thesis/dissertation defense and oral, but does complete all requirements, including approval of the thesis/dissertation by the Dean of the School of Graduate Studies, before the first day of classes for the following semester, will not be required to register for the term in which the degree is awarded.

Scheduling of Graduate Courses – A schedule of classes is published each term by the registrar. Graduate students should plan schedules with major advisors prior to registration. Note that graduate courses offered by the College of Medicine adhere to a calendar which may differ from that of the rest of the university.

Combined Graduate and Undergraduate Enrollment (5xx7 and 5956 Courses) – In some curricula, master's level students may enroll in 5xx7 and 5956 courses which are co-listed with 4xx7 and 4956 undergraduate courses. A student who has taken the 4xx7 or 4956 course for undergraduate credit cannot repeat the course for graduate credit. Graduate students enrolled in 5xx7 and 5956 courses shall be required to do specific work over and above that required of undergraduate students enrolled in companion 4xx7 and 4956 courses.

Specialist degree students may not enroll for 5xx7 and 5956 courses (except for 5957 “Topic in” courses); they must choose courses from the regular graduate-only series of 5000 and 6000 level courses, with at least one-half of all courses being at the 6000 level.

Doctoral students may not enroll for 5xx7 and 5956 courses (except for 5957 “Topic in” courses); they must choose from the regular graduate-only series of 5000, 6000, and 7000 courses, with at least one-half of all courses being at the 6000 and 7000 levels.

Limitations on 5xx7 and 5956 Courses – No more than 30 percent of all courses taken in any program may come from the 5xx7 / 5956 series. Some doctoral programs disallow 5xx7 and 5956 courses.

Independent Studies, Problems, and Workshops – Students who wish to pursue individual studies, problems, or workshops of special interest may enroll for these courses provided that the topic for study has been defined and approved by the professor and the student's advisor. Under no circumstances should registration for independent studies, problems, or workshop courses be used to attend a course with a different number or title at any level of course classification.

Graduate Course Load – The full-time course load for graduate students is nine graduate credit hours. Graduate course loads in excess of 15 hours require approval of the departmental chair and Dean of the School of Graduate Studies.

Graduate Assistant and Tuition Scholars Course Loads – Full- and half-time graduate assistants and tuition scholars are required to take a minimum of nine semester hours of graduate credit each semester. Full-time graduate assistants and tuition scholars may not exceed 15 graduate-level credits each term; half-time graduate assistants may not exceed 15 graduate-level credits each term. Graduate assistants and tuition scholars may take more than 15 semester hours only by approval of the departmental advisor and the Dean of the School of Graduate Studies. Requests for exceptions to this policy will be decided individually through consultation with the graduate coordinator and with the approval of the Dean of the School of Graduate Studies.

Courses for Graduate Assistants - Graduate Assistants are required to register for the following courses during fall and spring terms, as appropriate to their assigned responsibilities in teaching, research, or administration: 5019 Supervised Experience in Teaching, 5029 Supervised Experience in Research, or 5039 Supervised Experience in Administration.

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

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

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

Instructors may administratively drop auditors for unsatisfactory class
attendance.

Enrollment of Disabled Persons and Persons over 60 Years of
Age – (a) Audit Enrollment. Persons suffering from a permanent disability
that totally incapacitates them from employment and persons 60 years
of age or older may audit classes without the payment of fees. (b) Credit Enrollment. Disabled persons described in (a) 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. Special course fees may be
required.

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

Adding a Course – A course(s) may be added through 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 of the School of Graduate Studies, and the registrar and may
be granted only in extenuating circumstances.

Dropping a Course – A course(s) may be dropped during the first
eight calendar weeks of a regular semester. Courses dropped during the
first four weeks will not appear on the student’s permanent record.
Students who drop a course after the fourth full week of classes through
the eighth calendar week will receive a grade of “W”. (During the summer
session or when courses do not conform with established term dates, this
schedule is adjusted appropriately to fit the condensed time frames. Consult
the Schedule of Classes for exact dates.)

After the eighth week a student may not drop a course, except where
verifiable extenuating circumstances can be demonstrated. A petition
for a late drop may be presented by the student for consideration by the
Dean of the School of Graduate Studies. Verifiable extenuating
circumstances may include illness, accidental injury, or other appropriate
reasons. A course may not be dropped if there is an unresolved charge of
academic misconduct.

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

Change of Field of Study – Students seeking to change their field
of graduate study from one program to another must formally apply to
the new graduate program. The student is responsible for ensuring that
all admissions materials required by the new program are on file in the
School of Graduate Studies prior to any program deadlines. Students
must resign from the program in which they are currently enrolled prior
to accepting admission into the new program. Students seeking to change
concentrations within a program may do so by completing a Change of
Program of Study form, which can be obtained from the School of
Graduate Studies.

Withdrawal from the University – Students withdrawing from
the university-discontinuing matriculation in the university- during the
first eight weeks of classes will receive a grade of “W” in all courses.
Withdrawals from the university after the eighth week will be recorded
with “W” or “WF” at the discretion of the instructor. (During the
summer semester, or other shortened terms, this schedule is adjusted
appropriately to fit the condensed time frame.) All requests for withdrawal
must be received in the Office of the Registrar no later than 4:30 p.m.
two days before the last day of classes of any academic term. Under no
circumstances will a student be permitted to withdraw from the university
after that time.

A student who does not withdraw by the official procedure will receive
an “F” for each course. (Consult the Schedule of Classes for more details.)
Academic Requirements

Grades

Grades in the School of Graduate Studies carry the following meaning and quality points:

<table>
<thead>
<tr>
<th>Grades</th>
<th>Quality Points per Hour</th>
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<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>C+</td>
<td>2.7</td>
</tr>
<tr>
<td>C</td>
<td>2.3</td>
</tr>
<tr>
<td>Minimum Passing Grade</td>
<td>2.0</td>
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<tr>
<td>F</td>
<td>0</td>
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<td>S</td>
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<td>SP</td>
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<td>W</td>
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<td>WF</td>
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<tr>
<td>AU</td>
<td>0</td>
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<tr>
<td>I</td>
<td>0</td>
</tr>
</tbody>
</table>

To remain in good standing a graduate student must maintain an overall grade point average (GPA) of 3.0 “B” or better. Graduate credit will be given for grades of “A”, “A-”, “B+”, “B”, “B-”, “C+”, and “C” in graduate level courses. Graduate credit is not awarded for Pass/Fail grades. Grades of “P” of “F” do not count toward degree requirements. All graduate course grades earned at East Tennessee State University by a student will be used in computing the grade point average (GPA). An overall GPA of 3.0 is required for admission to candidacy and for graduation.

“S”, “SP”, and “U” Grades—The letter grades of “S” (Satisfactory Completion), “SP” (Satisfactory Progress), and “U” (Unsatisfactory) are given for Readings and Research, Capstone Projects, Thesis, and Dissertation. A grade of “S” carries graduate credit and indicates satisfactory completion of the course. Each program must specify the number of hours required for Thesis/Dissertation. Degree completion requires an “S” on the most recent hours associated with Thesis/Dissertation or Readings and Research. “SP” indicates progress toward project or research completion, but carries no credit. This grade does not affect the student’s GPA. Students who receive an “SP” must, in subsequent semesters (including summer), enroll in additional hours of Thesis/Dissertations or Readings and Research until the requirements are completed. The “U” grade carries no credit and indicates unsatisfactory progress toward research or project completion. Students who receive a “U” must enroll for the course the following semester, including summer. The “U” is equivalent to an “F”. The first “U” does not affect the GPA; however, all subsequent “U” grades will convert to an “F” and will be figured into the GPA.

Incomplete Grades—A grade of “I” (incomplete) 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 the course requirement. It also indicates that the student has received consent from the instructor to complete the work for which an “I” is assigned. The “I” grade cannot be used to allow a student to do additional work to raise a deficient grade or to repeat a course. An “I” grade must be removed no later than one calendar year from the time the grade is awarded. Time extension requests for removal of “I” grades must be submitted to and approved by the Dean of the School of Graduate Studies before the allotted time expires. An “I” grade not removed under the guidelines noted above will be converted to an “F”. When an “I” grade converts to an “F” after one calendar year, the GPA is adjusted retroactively; consequently, a student may be subject to dismissal without a probationary term. A student cannot withdraw from or drop a course after a grade of “I” has been assigned or after one year has elapsed. To remove an “I” grade, the student must complete the work independently and must not register for the course a second time or attend the same course at a later time in order to complete the course requirements.

Repeating a Course—If a student chooses to repeat a course, all grades earned are computed in the grade point average. The grade earned on the repeat does not replace the original.

Grade Reports and Appeals—Grade reports are available through GoldLink to all students who complete registration each term. Academic departments are required to retain grade documentation for a period of one year. Specific student concerns regarding academic records, other than the Grade Appeal process described in the Student Handbook (Spectrum), must be addressed within one academic year from the date of posting of grades for the term in question.

Academic Probation—To remain in good standing, a graduate student (degree or non-degree) must maintain an overall grade point average of 3.0 (“B” or better) on all graduate work attempted. In order to graduate, students must have a minimum 3.0 grade point average overall and on the program of study. When the cumulative grade point average falls below 3.0, the graduate student will be placed on academic probation. If the student does not achieve a 3.0 cumulative grade point average at the conclusion of one probationary semester, the Dean of the School of Graduate Studies and appropriate college/departmental/program officials will determine whether the student should be dismissed from graduate study at East Tennessee State University or continued on probation. No student will be allowed more than two probationary semesters, whether consecutive or cumulative. At the end of a second probationary semester a student whose cumulative grade point average is still below 3.0 will be dismissed from graduate study. Students whose performance results in a GPA so far below 3.0 as to make it mathematically impossible to attain an overall GPA of 3.0 after one semester may be subject to dismissal without a probationary term. A student will be removed from probationary status upon attaining a cumulative 3.0 grade point average. When an “I” grade converts to an “F” after one calendar year, the GPA is adjusted retroactively; consequently, a student may be subject to dismissal without a probationary term.

Dismissal—Students may be dismissed from the School of Graduate Studies for such reasons as academic misconduct, failure to meet conditions of admission, failure to meet a requirement of the program, or for exceeding the allowed number of probationary semesters.

Reinstatement—Students who have been dismissed from the School of Graduate Studies for academic reasons may address a written request for reinstatement to the chair of their department of major. The request should include reasons why the reinstatement should be considered. The department will review the request for reinstatement and make recommendations to the Dean of the Graduate School. If the request is denied at the departmental level, the student may then direct a written appeal to the Dean of the Graduate School, and a final decision will be made in accordance with policies established by the Graduate Council.

Residency Requirements

The residency requirement is primarily to provide doctoral students with significant time for sustained participation with peers and faculty members in scholarly and creative activities. Each doctoral degree program specifies how these residency requirements can be fulfilled. Nondoc toral graduate degree students may be required to complete one or more semesters of full-time study as determined by the degree program. Students should consult program requirements for details on specific residency requirements.

Transfer of Credit

Students may petition for the transfer of a maximum of nine semester hours of graduate credit from ETSU or other regionally accredited U.S. and approved international institutions, if grades of “B” (or equivalent) or higher were received (“B-” grades do not transfer). Students may be required to submit documentation as to course content and duration of course prior to transfer credit being approved. ETSU coursework solely is used to compute the grade point average; non-ETSU transfer work is not computed in the GPA.
All non-ETSU transfer credit must be completed prior to the term of graduation so that the transfer process can be completed in a timely manner early in the graduation term. Transfer of credit may not be initiated after the graduation intent deadline, and official transcripts must be received by the midpoint of the graduation term.

The degree program time limit (matriculation limit) will begin with the registration date of the first course applied to the degree requirements, including transferred courses. Credit earned prior to the degree time limitations specified in this catalog will not be approved for transfer and transfer credit cannot be revalidated if it later exceeds the matriculation limits.

Credit cannot be transferred from a completed degree program into a current degree program. Extension or continuing education hours will not be transferred for credit. In general, credit earned at international institutions cannot be transferred, and petitions to transfer international credit are reviewed only if accompanied by a professional course-by-course evaluation.

**Extension and Correspondence**

All work completed at any approved ETSU site is residential and not extension credit. No correspondence work can be applied to any graduate program at East Tennessee State University.

**Experiential Learning Credit**

No graduate credit can be awarded for experiential learning that occurs prior to admission into a graduate program and which has not been under the supervision of the institution.

**Institutional Review Board (IRB)**

Institutional Review Board (IRB) – All research involving human subjects must be approved by the East Tennessee State University Institutional Review Board prior to initiation of the research. IRB approval is necessary to protect the rights of human subjects involved in physical, psychological, or social research. Following approval of the proposed research by the review board, the subject involved must be informed of the study and consent to participate. The application forms for research involving human subjects and review of such research projects are available in the Office of Research and Sponsored Programs, 103 Earnest House.

**Timetable for Graduate Study**

<table>
<thead>
<tr>
<th>Required Action</th>
<th>Date of Completion</th>
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<tbody>
<tr>
<td>1. Application for admission to the School of Graduate Studies. (Public Health applicants will make their initial applications to <a href="http://www.sophas.org">http://www.sophas.org</a>)</td>
<td>1. See the Academic Calendar in this catalog to find the deadlines for both international students and U.S. Residents. Also, see program admission requirements for program deadlines</td>
</tr>
</tbody>
</table>
| 2. Test Scores  
  GMAT (M.B.A. and M.Acc. Students)  
  GRE (if required by department) | 2. TOEFL/IELTS/GMAT/GRE scores should be submitted with the TOEFL or IELTS (International students). |
| 3. Consultation with departmental advisor. | 3. Before registration and at least once per term. |
| 4. Transfer of graduate credits earned at other institutions or postgraduate credits earned at ETSU. | 4. After nine (9) hours in the graduate program have been completed. |
| 5. Preliminary and qualifying examination. | 5. Check with advisor for requirements and dates. |
| 6. File application for candidacy, approved program of study, and committee form with the School of Graduate Studies. | 6. Master Degree Students: Following completion of 9-12 hours in the major with a 3.0 average and no later than the semester prior to the final semester of study. Doctoral Degree Students: Consult the appropriate section of the catalog. |
| 7. File intent to graduate, clear records, and pay fees for graduation. | 7. Before the end of the second week of the final semester of study. |
| 8. Final examination and/or defense of thesis of dissertation. | 8. During the last semester of study and prior to the date specified in the Academic Calendar. |
| 9. Submit review copies of thesis or dissertation to the Dean of Graduate Studies. | 9. Prior to date specified in the Academic Calendar. |
| 10. Submit final copies of thesis or dissertations to the School of Graduate Studies. | 10. Prior to date specified in the Academic Calendar. |

**Time Limits**

- Graduate Certificate: 4-6 years
- Master's Degree: 6 years
- Specialist Degree: 5 years
- Doctoral Degree: 7 years
*(5 years for persons previously awarded an Ed.S.)*

Note: Most forms for the required steps outlined above are available on the Internet at http://www.etsu.edu/gradstud/forms.asp and in the School of Graduate Studies office, Burgin Dossett Hall, Suite 309, Johnson City, Tennessee.

*Time for completion of the degree is counted from the date of registration for the first course applied toward the degree requirements, including transfer work.*
Master’s Degree Requirements

The specific course and degree requirements for the areas of graduate study leading to a master's degree are defined in the various school and department sections of this catalog.

Master's degree programs, including professional degrees, should include curriculum components that demonstrate the importance of research and writing skills in graduate education.

The School of Graduate Studies requires that all graduate programs introduce students to serious research opportunities. Regardless of whether the thesis or non-thesis option is elected, students are required to enroll in a departmental course which introduces them to the tools and methods of scholarly research.

Master's degree programs will be offered through two (2) options (not all programs offer both options):

A. **Thesis Option**—minimum of 30 credit hours of graduate coursework (including at three (3) hours of credit for the thesis).

B. **Non-thesis Option**—minimum of 33 credit hours of graduate coursework including a research requirement to be satisfied by one (1) or more courses which introduce the student to the tools and methods of research and scholarly activities and a writing requirement on a topic in the student’s major field which conforms to the style and standards of the discipline.

i. Courses designated to satisfy the research requirement must be approved by the Graduate Council.

ii. The writing requirement must be approved by the Graduate Council.

Culminating Experience

All master's degree programs should involve a culminating experience that includes an integrating activity and a comprehensive evaluation of the student's performance:

1. The integrating activity is intended to help students synthesize knowledge and skills acquired throughout the degree curriculum. The form of this activity may vary according to the particular discipline and may or may not involve academic credit. Examples include, but are not limited to, a thesis, analytical essay, artistic presentation, practicum, capstone project, and team consulting project. Departments and/or graduate program offices shall identify in the graduate catalog the integrating activity provided in each degree.

2. A comprehensive evaluation of the student's performance should include a written or oral examination or evaluation to determine whether the student has achieved mastery of the student's discipline. Assessment of a student's performance shall be made by a committee established for that purpose consisting of a minimum of three (3) ETSU graduate faculty members. Experts from outside the university are also permitted to serve on such committees, with approval from the Dean of the School of Graduate Studies. The committee's written assessment of the student's performance shall become a part of the student's permanent academic record.

   The student's performance in the final examination or evaluation may be classified into one (1) of three (3) categories. They may (1) pass; (2) fail with no opportunity for re-examination or re-evaluation; or (3) fail with an opportunity for further study and re-examination by the committee. The nature of such further study and a schedule for re-examining or re-evaluating the student's performance will be established by the committee. A second failure by any candidate will result in the student's dismissal from the graduate program.

   The format of the final examination and standards for the three (3) categories of performance must be approved by the Graduate Council and should be included in the graduate catalog along with other degree requirements.

Advisory Committee

During the period before candidacy, graduate students are advised by the graduate program coordinator or advisor as assigned at the time of admission. Students should form the graduate advisory committee no later than the second semester in which coursework is undertaken. For students in a thesis option, the advisory committee also serves as the thesis committee and is responsible for guiding the student through the thesis research and writing, as well as accepting or rejecting the manuscript. The committee will assist the candidate in planning the program of study and research. It must be composed of at least three (3) faculty members who hold graduate faculty status; the committee chair must hold full or associate status. In warranted circumstances, a fourth committee member who does not have graduate faculty status may be added if the Dean of the School of Graduate Studies approves the individual for a temporary graduate faculty appointment.

The advisory committee is responsible for administering the comprehensive examination to the master's candidate and certifying that the candidate has completed all requirements in the program for the master's degree.

If changes in the composition of the advisory committee are needed, an approval form, available at the School of Graduate Studies office, must be completed. It requires signatures of the retiring member(s), replacement member(s), the committee chair, the department chair, and the Dean of the School of Graduate Studies.

Admission to Candidacy and Approval of the Program of Study

Admission to the School of Graduate Studies, and the approval to pursue a degree program, does not in any way imply that a student is admitted to candidacy for the master's degree. To be admitted to candidacy the student must:

1. Remove all conditions required at the time of admission by the School of Graduate Studies.

2. Complete at least one (1) semester (9-12 hours) of study following admission to the School of Graduate Studies.

3. Meet the specific requirements of the major department.

4. Have an overall GPA of 3.0 and be in good academic standing.

5. Submit the completed forms for admission to candidacy and an approved program of study to the Dean of the School of Graduate Studies.

Ideally, the program of study is filed well in advance of the published deadline. When the application for candidacy is approved, the student may be considered a candidate for the graduate degree. When the program of study is filed with the School of Graduate Studies after the published deadline, graduation will be delayed until all program requirements have been verified.

Change in Program of Study—Changes in the planned program of study for candidacy must be approved by the Dean of the School of Graduate Studies. Forms for program changes are available in the Graduate Studies office or through its web site.

Thesis Process

All students who select this option will register for the appropriate thesis course, undertake a research project, and write a thesis. The thesis topic will be selected by the candidate with the advice and approval of the thesis director and committee. The student must prepare a prospectus describing the research problem, its full limits, and the research methods. A copy of the prospectus will be given to each member of the student's committee. Changes in the prospectus may be made at the committee's discretion, with the consent of the student. After the thesis topic has been researched and written, and approved by the advisory committee members, the oral defense must be scheduled with the School of Graduate Studies. Copies of the thesis should be distributed to committee members.
at least one (1) week prior to the oral defense. Following successful completion of the defense, the thesis must be prepared in final form, reviewed by the chair of the advisory committee, and submitted to the Dean of the School of Graduate Studies for review and approval through http://etd-submit.etsu.edu.

Submission of the Thesis—Students must submit theses in the format prescribed at the time of submission. All students submitting theses and dissertations must pay a microfilming fee. Students seeking exemption from electronic submission of the thesis will still be responsible for microfilming. More detailed instructions are available from the School of Graduate Studies.


Graduate Faculty Representation at Thesis Defenses—The defense of the thesis is a formal gathering at which the master's candidate presents and defends the thesis to members of the university community. The defense is a capstone event in the development of graduate students as scholars, professionals, or future teachers and must entail open and fair exchange of scholarly views. A member of the graduate faculty from outside the candidate's committee and department must be present at the defense to monitor the process.

The procedure to be followed in scheduling an oral defense and the format for the graduate faculty representative's narrative report are available in the Graduate Studies office. The defense must be scheduled according to dates specified in the Academic Calendar published in this catalog and in the Schedule of Classes Bulletin.

Education Specialist Degree Requirements
Requirements for the Ed.S. degree are included under Educational Leadership and Policy analysis in this catalog.

Doctoral Degree Requirements
• Requirements for the Ph.D. degree are included under Biomedical Sciences, Clinical Psychology, Early Childhood, Environmental Health, Kinesiology, and Nursing sections in this catalog.
• Requirements for the Au.D. are included under Communicative Disorders in this catalog.
• Requirements for the D.P.T. are included in the Physical Therapy section in this catalog.
• Requirements for the Ed.D. are included under Educational Leadership and Policy Analysis in this catalog.
• Requirements for the Dr.P.H. degree are included in the Public Health sections in this catalog.

Graduation
Credits Earned Above Requirements for a Degree
When students earn credits in addition to those required in the planned program of study, a request may be made to the Dean of the School of Graduate Studies to have the extra coursework defined on the transcript as post-degree credit. The request must be made prior to awarding of the degree and cannot be so defined once the degree is awarded. The School of Graduate Studies will not interpret or alter the transcript once the degree is awarded.

Required GPA
In order to graduate, students must have a minimum 3.0 grade point average overall and on the program of study for all degrees.

Intent to Graduate
Students must file an Intent to Graduate Form with the School of Graduate Studies no later than the end of the second week of the semester in which the student expects to complete the requirements for a graduate degree. If the student does not graduate in that term, a new Intent Form must be completed and submitted prior to the published deadline (see Academic Calendar).

Matriculation Limits
The time limit for the use of credit toward a certificate is four (4) to six (6) years. The time limit for the master's degree is six (6) years. For the education specialist degree, the time limit is five (5) years from the date of enrollment in the earliest course applied toward the degree, including transferred courses.

The time limit for completion of the Ed.D. program by a student who holds the Ed.S. degree or equivalent is five years from the date of enrollment in the earliest course applied toward the degree. The time limit for completion of the doctoral program by students who begin a program after a bachelor's or master's degree is seven (7) years from the date of enrollment in the earliest course applied toward the degree.

Revalidation of ETSU Coursework that Exceeds Matriculation Limits—It is the department's responsibility to recommend to the School of Graduate Studies one of the following actions for revalidating course content in each instance that exceeds the matriculation limits. The department may:
1. Examine the student (orally or in writing) and report the results to the School of Graduate Studies.
2. Design an independent study if no course currently exists by which the student may update course content.
3. Have the student repeat the outdated course.
4. Have the student complete additional coursework.
   This procedure may not be used to revalidate coursework for transfer purposes when the course already exceeds the matriculation limit at the time of application.

Graduation Instructions
The School of Graduate Studies publishes graduation information for each term on its website and provides all deadline and instructions for meeting graduation requirements.
Expenses and Financial Aid

Tuition and Fees

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

Application Fee—All applications for admission to Graduate School must be accompanied by a $25 domestic, $35 international, application fee. The application fee is nonrefundable.

Graduate In-State Tuition—$308 per semester hour, up to 10 hours; $15 per credit hour for 11 hours and above, in addition to other fees.*

Graduate Out-of-State Tuition—$546 per semester hour, up to 10 hours; $28 per credit hour for 11 hours and above, in addition to other fees.*

Auditing Fees—The fees are the same as regular tuition.

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

Summer Fees—The summer semester is divided into two (2) sessions, each five (5) weeks in duration. Students may enroll for either session separately or for both sessions at the beginning of the summer term. If students who have registered for first-session courses decide later to enroll for second-session courses, they may do so by adding and paying for such courses on or before the day the second session begins. Summer maintenance fees are assessed per credit hour with no maximum. During summer sessions, the full per credit hour maintenance fee is assessed.

* Tuition and fees are subject to change. For the most current information, please contact the Office of the Bursar.

In-State Tuition for Residents of Bordering Counties

Residents of Avery, Madison, Mitchell, Yancey, and Watauga counties in North Carolina, and residents of Lee, Scott, and Washington counties in Virginia may request an in-state tuition rate. To be considered for the special rate, students should be fully admitted to the School of Graduate Studies, and for the in-state rate to be renewed, the students must remain in good academic standing. This fee waiver is NOT applicable to the James H. Quillen College of Medicine or the College of Pharmacy. To obtain the in-state tuition rate, students must file a request form by census date (the 14th day of classes) for the semester in which the reduced tuition is sought. The form is available at http://www.etsu.edu/gradstud/forms.asp (under Residency). In-State Tuition requests filed after this date will be considered for the following semester. Students may also be asked to provide documentation concerning their place of residence.

In-State and Out-of-State Tuition Regulations for Classifying Students

Excerpted from TBR Policy No. 34:05:01:00

The Graduate School must classify all applicants for tuition purposes based on all available information. The following regulations guide this process.

Intent - It is the intent that the public institutions of higher education in the State of Tennessee shall apply uniform rules, as described in these regulations and not otherwise, in determining whether students shall be classified “in-state” or “out-of-state” for fees and tuition purposes and for admission purposes.

Rules for Determination of Status

(1) Every person having his or her domicile in this State shall be classified “in-state” for fee and tuition purposes and for admission purposes.

(2) Every person not having his or her domicile in this State shall be classified “out-of-state” for said purposes.

(3) The domicile of an unemancipated person is that of his or her parent. Unemancipated students of divorced parents shall be classified “in-state” when one parent, regardless of custodial status, is domiciled in Tennessee.

(4) The spouse of a student classified as “in-state” shall also be classified “in-state.”

Out-of-State Students who are not required to pay Out-of-State Tuition—Part-time students who are not domiciled in this State but who are employed full-time in the State, or who are stationed at Fort Campbell pursuant to military orders, shall be classified out-of-state but shall not be required to pay out-of-state tuition. This shall apply to part-time students who are employed in the State by more than one employer, resulting in the equivalent of full-time employment.

Presumption—Unless the contrary appears from clear and convincing evidence, it shall be presumed that an emancipated person does not acquire domicile in this State while enrolled as a full-time student at any public or private higher educational institution in this State, as such status is defined by such institution.

Evidence to be Considered for Establishment of Domicile—If a person asserts that he or she has established domicile in this state he or she has the burden of proving that he or she has done so. Such a person is entitled to provide to the public higher education institution by which he seeks to be classified or reclassified in-state, and all evidence which he or she believes will sustain his or her burden of proof. Said institution will consider any and all evidence provided to it concerning such claim of domicile but will not treat any particular type or item of such evidence as conclusive evidence that domicile has or has not been established.

Definitions

(1) “Public higher educational institution” shall mean a university or community college supported by appropriations made by the Legislature of this State.

(2) “Residence” shall mean continuous physical presence and maintenance of a dwelling place within this State, provided that absence from the State for short periods of time shall not affect the establishment of a residence.

(3) “Domicile” shall mean a person’s true, fixed and permanent home and place of habitation; it is the place where he or she intends to remain, and to which he or she expects to return when he or she leaves without intending to establish a new domicile elsewhere.

(4) “Emancipated person” shall mean a person who has attained the age of eighteen years, and whose parents have entirely surrendered the right to the care, custody, and earnings of such person and who no longer are under legal obligation to support or maintain such deemed “emancipated person.”

(5) “Parent” shall mean a person’s father or mother. If there is a nonparental guardian or legal custodian of an unemancipated person, then “parent” shall mean such guardian or legal custodian; provided, that there are not circumstances indicating that such guardianship or custodianship was created primarily for the purpose of conferring the status of an in-state student on such unemancipated person.

(6) “Continuous enrollment” shall mean enrollment at a public higher educational institution or institution of this State as a full-time student, as such term is defined by the governing body of said public higher educational institution or institutions, for a normal academic year or years or the appropriate portion or portions thereof since the beginning of the period for which continuous enrollment is claimed. Such person need not enroll in summer sessions or other such inter-sessions beyond the normal academic year in order that his or her enrollment be deemed “continuous” notwithstanding lapses in enrollment occasioned solely by the scheduling of the commencement and/or termination of the academic years, or appropriate portion thereof, of the public higher educational institutions in which such person enrolls.

Appeal—The classification officer of each public higher educational institution shall be responsible for initially classifying students “in-state” or “out-of-state.” Appropriate procedures shall be established by each such institution by which a student may appeal his or her initial classification.
Effective Date of Reclassification – If a student classified out-of-state applies for in-state classification and is subsequently so classified, his or her in-state classification shall be effective as of the date on which reclassification was sought. However, out-of-state tuition will be charged for any quarter or semester during which reclassification is sought and obtained unless application for reclassification is made to the admissions officer on or before the last day of registration of that quarter or semester.

Classification of Employees, Their Spouses and Children, and Graduate Assistants for Purposes of Fees and Tuition (TBR Policy No. 5:01:04:10) – (1) All regular full-time employees, their spouses and children, shall be classified as in-state students for purposes of fees and tuition when enrolled in courses at any institution in the State University and Community College System. (2) Graduate assistants shall be classified as in-state students for purposes of fees and tuition at the institutions where they are pursuing graduate studies as graduate assistants.

Housing Fees
(subject to change without notice)

Family and Graduate Housing
(Apartment rents listed below are 2009-2010 prices and includes all utilities.)

Buccaneer Village Apartments
Deposit ................................................................................................................................. $150.00
Rent
Efficiencies ......................................................................................................................... $1,955/semester
One bedroom ..................................................................................................................... $2,125/semester
Two bedroom ..................................................................................................................... $2,355/semester

Buccaneer Ridge Apartments (Phase I)
Deposit ................................................................................................................................. $150.00
Rent (per person)
Two bedroom—academic year lease ........................................................... $2,740 per semester/per person
Two bedroom—extended (12 month) lease ...................................................... $2,700 per semester/per person
Four bedroom—academic year lease .............................................................. $2,470 per semester/per person
Four bedroom—extended (12 month) lease ...................................................... $2,200 per semester/per person

Buccaneer Ridge Apartments (Phase II)
Deposit ................................................................................................................................. $150.00
Rent (per person)
Two bedroom—academic year lease ........................................................... $2,840 per semester/per person
Two bedroom—extended (12 month) lease ...................................................... $2,460 per semester/per person

General Expenses
University Meal Plans (estimate/semester) ................................................... $399-$1299/semester
Books (estimate per semester) ................................................................. $500 - $700
For the most current information about university tuition and program fees, see http://www.etsu.edu/fa/fs/bursar/

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

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

Important - Certification must be processed by the 14th day of the semester (official census date) in order to be effective with that semester. Certification processed after that date will be effective with the next semester.

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

Approved Programs in Graduate Studies

State

Master of Science in Engineering Technology
Virginia
Kentucky

Master of Arts in Reading

Master of Arts in Reading (Storytelling Option)

Master of City Management

Master of Public Administration

Master of Science in Clinical Nutrition

Doctorate of Audiology

Master of Science in Technology (Geoscience option)

Regulations Governing Fee Payment
The university operates on the semester system and on 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.

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 his/her 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 may be 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 student 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
Fee Adjustment Policies

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

Change of a Student's Status Which May Not Permit a Fee Adjustment—Student(s) who are suspended or expelled from the university or residence facilities are not eligible for a fee adjustment of housing rent/deposit or university tuition fees.

Change of a Student's Status Which May Permit a Fee Adjustment—Change in a full-time student's schedule which results in the reclassification to a part-time student.

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

Situations Which May Permit a Fee Adjustment—Dropping a course or courses; Withdrawing from the institution; Cancellation of a class by the institution; Death of the student.

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

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

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

Return of Title IV Federal Student Aid

This requirement applies to you ONLY if: You receive federal student aid, and you withdraw prior to completing 60 percent of the period for which the aid was provided.

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

The new law assumes that you used the 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 prorata amount of your aid must be returned to the federal government. First, the university will restore to the appropriate federal fund source a proportional share of the institutional charges that you paid. In general, the effect of this “return of Title IV aid” by the institution will be to reduce your outstanding loan balance. Second, if the amount returned by the university is not enough to repay the entire “unearned” amount of student aid according to the length of your enrollment, you will be required to return portions of the federal student aid you received to pay non-institutional 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 receive 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.

(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 will be credited back to student aid program accounts in the following order:

Title IV programs:
1. Unsubsidized Federal Stafford Loans
2. Subsidized Federal Stafford Loans
3. Federal Perkins Loans
4. Federal PLUS Loans
5. Federal Pell Grants
6. Federal SEOG program
7. Other refunds will be credited to:
   a. state, private, or institutional aid;
   b. the student.

Refund Appeals Procedure—Students contesting the refund policy may file a refund appeals form which may be obtained in the Comptroller's Office, 202 Dossett Hall. It is the student's responsibility to provide written documentation substantiating his/her 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.

Refund of Residence Hall Rent—Refunds of residence hall rent after registration will be prorated on a weekly calendar basis when the student is forced to withdraw from the residence hall: (1) because of personal medical reasons confirmed in writing by a licensed physician; or (2) at the request of the institution for other than disciplinary reasons.

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

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

Financial Aid

The Office of Financial Aid at East Tennessee State University provides a broad spectrum of programs to assist students in financing their college education. The university is committed to providing access to students through a variety of resources. Types of financial aid include scholarships, grants, fee waivers, fellowships, assistantships, work-study, and student loans.
Financial Aid is a supplement to an applicant’s personal resources. Reasonable family contributions are expected. The majority of financial aid awarded at the university is based on the student’s financial need. Scholarship funds are awarded based on academic merit or other criteria specified by the donor or organization managing the program. Need is defined by federal formulas and based on a student’s estimated cost of attendance less any expected family contribution.

The Free Application for Federal Student Aid (FAFSA—http://www.fafsa.gov) is the federal government’s form for applying for financial aid. Students must complete the FAFSA every year as soon after January 1st as possible using accurate tax information from the prior year. The FAFSA provides a comprehensive review of the family’s financial status. The results, including the Expected Family Contribution, are generated on the Student Aid Report (SAR), sent to the student, and sent electronically to colleges and universities listed by the student on the FAFSA. Read your SAR comments only if you are selected for verification. Visit our website http://www.etsu.edu/finaid/fafforms/verification.aspx, check GoldLink frequently for Unsatisfied Requirements, and respond promptly. Students will find links to other helpful financial aid information at www.etsu.edu/finaid.

Financial aid programs, rules, and regulations are subject to change. Federal funds are conditional upon congressional appropriations and receipt of those funds at ETSU. The Office of Financial Aid is sometimes required to adjust or cancel awards because of changes in financial or academic status, change of academic program, or other extenuating circumstances. Each award is contingent on the receipt of funds by the university. Students must regularly attend classes to receive financial aid. Financial aid will be adjusted or canceled for not attending classes. Please see the Policies and Procedures for further information.

Students should always notify the Office of Financial Aid if any awards such as scholarships, assistantships, or other types of assistance are not listed on the financial aid award screen in GoldLink. These funds must be counted as a funding resource toward the cost of attendance. When a student receives funds after being notified of or receiving the original financial aid award, adjustments to the original financial aid award may be required. Federal regulations require the university to prevent overawarding a student’s financial aid need and/or cost of education. Changing a student’s residency classification from out-of-state to in-state will impact financial aid eligibility and may create an overaward. In some instances, a portion or all of a student or parent’s loan or other funds may have to be returned to the source due to the overaward. If the student has already received a Direct Deposit or Balance of Aid Refund Check, (student/parent), the student may owe funds to the university. The student will be required to repay any financial aid funds received in error. The Financial Aid Policies and Procedures Guide located at www.etsu.edu/finaid gives additional detail on program requirements.

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

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

Any applicant who has a concern that cannot be resolved between the student and a financial aid counselor may appeal in the following order:

1. To the Client Services Coordinator, the Assistant Director of Financial Aid, then the Director of Financial Aid. The student may appeal to the Vice Provost if none of the previous steps resolved the issue.

“Funding Education Beyond High School,” a publication by the United States Department of Education, is a helpful source of information regarding the federal financial aid programs. Copies are available in the Office of Financial Aid or directly from the government.

Student Eligibility

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

1. Be accepted for admission;
2. Be enrolled as a regular student, attending classes in a degree or certificate program;
3. Be a U.S. citizen or eligible non-citizen;
4. Meet the financial aid Satisfactory Academic Progress Policy;
5. Males must be registered with the Selective Service;
6. Not be in default on a student loan or owe a repayment of Title IV federal financial aid funds. (A repayment occurs if the student receives funds for living expenses and then withdraws within the first 60% of the term (officially or unofficially) from the university. Students not enrolled in a degree or certificate program may be eligible for financial aid if enrolled in pre-requisite classes for admission into a graduate degree program or enrolled in classes to complete teaching certification requirements. Federal Stafford Loans may be awarded to these students for a maximum of 12 consecutive months and a one-time occurrence during educational career.

Federal Financial Aid Application Procedures

1. Apply for a personal identification number (PIN) for yourself at www.pin.ed.gov if you do not already have one.
2. Every year, complete the Free Application for Federal Student Aid (FAFSA) as soon as possible after January 1st using accurate tax information from the prior year. Students are encouraged to complete the FAFSA electronically at the following web site: www.fafsa.gov. List the ETSU school code, 003487, on the FAFSA for ETSU’s main campus to receive the data electronically.
3. ETSU will review the student’s financial aid award 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.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 and read SAR comments for assistance. If the student is selected for verification, the student should visit our website http://www.etsu.edu/finaid/faforms/verification.aspx, check GoldLink frequently for Unsatisfied Requirements, respond promptly, and contact the ETSU Office of Financial Aid for further instruction or assistance. The Office of Financial Aid may require other information.
5. The Office of Financial Aid begins sending award offers to new and transfer students beginning mid-April each year. Continuing students begin receiving award offers by the end of May each year. Awards can be viewed, accepted, and/or declined through GoldLink by clicking on the Financial Aid tab. Check your Financial Aid Status frequently for any Unsatisfied Requirements because new requirements can be added each time changes are made to your financial aid. Allow 2-3 days for Student Requirements to be satisfied; they are not satisfied immediately. All students must complete the “Financial Aid and Prior Balances Form” electronically. No financial aid can be applied to a student account until this form has been completed and submitted through GoldLink.
6. ETSU Stafford and PLUS (Parent and Grad) Loans are through the Federal Direct Loan Program. If you accepted the Federal Direct Stafford Loan through your GoldLink account, you will need to
The Undergraduate Special (SPU) may not be Graduate Non-Degree (SPG) are eligible for satisfactory progress policy:

Cumulative GPA, East Tennessee State University uses the following toward the degree both in terms of number of hours completed and the academic program. In order to assure that students make progress of credit hours earned in relation to those attempted, and the length of the academic program. In order to assure that students make progress toward the degree both in terms of number of hours completed and cumulative GPA, East Tennessee State University uses the following satisfactory progress policy:

**PROGRESS STANDARDS:** Students must earn a satisfactory grade in at least 60% of the semester credit hours they attempt each semester.

**SEMESTER PROGRESS:** Students must, as a minimum, receive a satisfactory grade (*) in the courses they attempt each semester. (*For purposes of financial aid, satisfactory grades are A, A+, B+, B, B-, C+, C, C-, D+, D, S, SP or P. Unsatisfactory grades are F, W, WE, U, or I. Audits do not count as attempted hours and are not eligible for financial aid.**

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

**EVALUATION PROCESS**

- Academic progress is reviewed at the end of each Spring term, and students who do not make satisfactory academic progress are notified in writing.
- Students who receive all “I”, “F”, “W”, “WF”, or “U” grades in courses attempted in ANY term (fall, spring, summer) will become ineligible for financial aid (see below in reference to Regaining Eligibility).
- Repeat courses will be counted in earned credit hours. (Note: ALL courses attempted, except audited courses, count in total credit hours attempted.)
- Transfer courses recognized by ETSU will be counted in attempted and earned credit hours.
- All distance education, telecommunications, television, and web-based courses are considered in total attempted hours.
- Academic Fresh Start (See Admissions) students will have their satisfactory academic progress evaluated on work attempted after returning to the university under the Academic Fresh Start Policy. However, the appeal limits and maximum eligibility requirement (150%) still apply (see below in reference to Maximum Eligibility).
- Second-degree students will have their satisfactory academic progress calculated from the credit hours attempted beyond the first degree. (Note: Additional credit hours for the second-degree coursework will be limited to the credit hours required to complete the second degree.) A second-degree student is defined as a student with a previous degree at the same classification, either undergraduate or graduate. For example, a student pursues a bachelor's degree in a new field after earning a previous bachelor's degree.
- Students classified as “Undergraduate Special” (SPU) may not be eligible for federal financial aid because they are a visiting student or not seeking a degree; check with a Financial Aid Counselor.
- Students classified as “Graduate Non-Degree” (SPG) are eligible for federal financial aid for a maximum of one year if they are enrolled in classes that are:
  - Required for a teacher certification program (the loan limit is that of a fifth-year undergraduate); OR
  - Necessary as pre-requisite courses for enrollment into a graduate program (the loan limit is that of a fifth-year undergraduate).
- Students may receive aid for no more than 30 attempted hours of remedial coursework. English as a Second Language (ESL) classes are included in the 30 credit hours.

**CUMULATIVE PROGRESS:** Students must, in addition to the above, meet the retention standards of ETSU as outlined in the current ETSU Undergraduate and Graduate catalogs.

**MAXIMUM ELIGIBILITY:** Students who have attempted 150% of the required credit hours for their degree will become ineligible for financial aid. Maximum eligibility is checked each semester.

**REGAINING FINANCIAL AID ELIGIBILITY**

**SATISFACTORY PROGRESS APPEAL:** Students who fail to meet these standards and lose eligibility for financial aid can appeal that decision to the Office of Financial Aid. The appeal must be prepared in writing on the Satisfactory Academic Progress Appeal Form, and must be accompanied by appropriate supporting documents. The appeal form can be found below. Reasons that may be acceptable for the appeal are:

- Serious illness or accident on the part of the student;
- Death, accident, or serious illness in the immediate family;
- Class cancelled by ETSU; and
- Other acceptable extenuating circumstances considered

**MAKING UP DEFICIENT CREDIT HOURS WITHOUT AID:** In the event that the student does not qualify for an appeal, he or she may be eligible to have financial aid reinstated by taking the following actions:

- Earn at ETSU the number of deficient credit hours in which aid was received;
- Pay for these hours without federal financial aid;
- Maintain a minimum 2.0 GPA for the term average for those credit hours; and
• Notify the Office of Financial Aid when the deficient hours have been earned.
• **APPEAL LIMITS** The maximum number of appeals any student may normally have granted during an academic career is two (2).
Under extreme circumstances, a third appeal may be granted during an academic career, provided that the student has documented proof of the circumstances. In the case of a student who files a third appeal, the reasons for the student's two previous appeals will be reviewed and considered when making a decision. Additionally, the student's progress within the academic program will be a determining factor in third appeals.

**Satisfactory Academic Progress Appeal Form**
http://www.etsu.edu/finaid/Forms/AppealForms.asp

**Bursar's Office Fee Adjustment Policy**
http://www.etsu.edu/finaid/Forms/AppealForms.asp

**Graduate Assistantships and Tuition Scholarships**

**Application Process**—Students who wish to be considered for a graduate assistantship or tuition scholarship should so indicate in the appropriate place on the degree application for admission to Graduate School. When the degree application is forwarded to the department or program, the student’s qualifications for an assistantship or tuition scholarship are reviewed as part of the admission process.

Students who wish to be considered for assistantships or scholarships in programs or offices outside his/her major discipline should submit a letter of interest and a current resume directly to the office or department posting the vacancy.

The Graduate Office posts graduate assistantship and tuition vacancies at [http://www.etsu.edu/gradstud/positions.asp](http://www.etsu.edu/gradstud/positions.asp).

Applicants will not be approved for assistantships or tuition scholarships until they have been admitted to a graduate degree program and have registered for at least nine hours. International students must sit for the Oral Proficiency Interview before the contract can be approved.

**Graduate Assistantships**—Students receiving graduate assistantships must register for at least nine graduate hours per semester within his/her approved graduate program unless a waiver is obtained from the Dean of the School of Graduate Studies. During the summer terms, graduate students on assistantships must register for a total of six hours. Out-of-state tuition is waived for graduate students who hold assistantships. All or part of the in-state tuition may be waived, depending on the level of the award. Graduate assistants may not take more than 15 hours of graduate credit per semester without prior permission from the Dean of the School of Graduate Studies. Students normally do not hold a graduate assistantship for more than two years.

**Tuition Scholarships**—A limited number of tuition scholarships are available to qualified first-time graduate students. A tuition scholarship award waives the tuition and maintenance fees for in- and out-of-state recipients. Tuition Scholarship recipients must register for at least nine graduate hours each term and perform eight hours of service per week at his/her assigned location.

**Resignations**—Graduate assistants and tuition scholars who resign his/her positions during a term must notify the Graduate School immediately upon resignation and are responsible for a prorata portion of tuition and fees accrued during that term.

**Handbook for Graduate Assistants and Tuition Scholars**—Additional guidelines and policies pertaining to graduate assistantships and tuition scholarships are available in the Graduate Assistant Handbook, which is available at: [http://www.etsu.edu/gradstud/pdf/gatshandbook.pdf](http://www.etsu.edu/gradstud/pdf/gatshandbook.pdf).

**Residence Hall Assistantships**—Residence hall assistantships are available to students pursuing an advanced degree. Graduate students may serve as a Resident Director where they will supervise and be assisted by an undergraduate staff. Resident Directors are responsible for the overall management of a residence hall such as staffing, counseling, group advising, program development, and housing administration.

Preference is given to those majoring in psychology, guidance and counseling, education, educational administration, and with residence life experience and/or group work of a related nature. Students must maintain nine credit hours of enrollment. Selection will be based on the above listed criteria, acceptance into the School of Graduate Studies, letters of recommendation, a personal interview, and a background check.

Appointment is for a nine-month period with the possibility of summer work when available. Remuneration includes a furnished apartment with utilities, in-state and out-of-state fee waiver and a monthly stipend. Further information and applications are available from the Department of Housing and Residence Life, ETSU Box 70723, Johnson City, TN 37614-1710 or email housing@etsu.edu.

**Graduate Assistantships in the Division of Student Affairs**—In addition to the Residence Hall Assistantships, approximately 20 other graduate assistantships are available through the Division of Student Affairs. These positions offer a wide range of experience and opportunities, such as the Counseling Center and Campus Recreation. Students from all majors are eligible to apply, although efforts are made to match the students’ abilities, interests and particular degree program with an assistantship. Most Student Affairs Graduate Assistants work 20 hours/week on a nine month contract, although exceptions do exist. For more information concerning these assistantships you may contact the Office of the Vice President for Student Affairs by phone, 439-4210, or by email, lees@etsu.edu.

**Work**

The Federal Work-Study (FWS) Program offers employment opportunities to students with financial need. Students are paid minimum wage bi-monthly.

The Regular Student Work Program (RSWP) offers employment to students not eligible for need-based, Federal Work-Study. Students may work up to 8 hours per week and are paid minimum wage.

Available positions for FWS and RSWP are listed at [www.etsu.edu/finaid under Student Work Positions](http://www.etsu.edu/finaid).

The ETSU Office of Career Development has information about off-campus jobs and the Cooperative Education (CO-OP) Program. The CO-OP Program gives students the opportunity to gain work experience related to his/her academic major and career objective.

**Loans**

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

The **George Washington Bradley Memorial Loan Fund**—Established to honor the memory of Dr. Bradley, former ETSU Assistant Professor of Education and Psychology. 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.

The **East Tennessee State University Loan Fund**—A short-term loan fund administered by ETSU for those students having temporary needs to meet his/her 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. A cosigner is required.

The loan fund was established by an original gift of $1,000 from the business and professional men of Johnson City. It has been augmented with gifts from other sources, which include: a 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. (e.g.) William C. Dunn Memorial Loan Scholarship Fund; the Ada
Hornsby Earnest Loan Scholarship; the Eastern Star Loan Fund, Nolichucky Chapter 194; the Faculty Women’s Club Loan Fund; the Frieberg Memorial Loan Scholarship, established by the Col. D. Henley Chapter of the U.S. Daughters of 1812; the Sidney Gordon Gilbreath Loan Fund, established in memory of the first president of the university; the Sarah Hawkins Chapter, DAR Loan Fund; an annual contribution from Home Federal Savings and Loan Association; the Johnson County Loan Fund, established by the Weitzel-McBride Chapter of the U.S. Daughters of 1812; the Jesse M. Jones Memorial by Mr. and Mrs. Doyle Jones; the Theona Main Memorial established by the East Side PTA, Elizabethton; the Ferne Fisher Miller Memorial Loan Scholarship, established by the Col. D. Henley Chapter of U.S. 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 PW. Alexander Alumni Memorial Fund; the John Sevier Chapter, DAR Loan Fund; the Tennessee Students’ Loan Fund, a memorial to Hortense Cocke Hayes and J. Norment Powell; the U.S. Daughters of 1812 Loan Scholarship, established by the Weitzel-McBride Chapter, the Gen. Nathaniel Taylor Chapter, and the Watauga Chapter; and the YMCA Student Loan Fund.

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.

Federal Stafford Loan Program—Stafford loans are awarded based on a student’s dependency status, financial need, cost of attendance, and grade level. Both undergraduate and graduate students may borrow in this program. These loans will be subsidized when based on need and the federal government will pay the interest while the student remains enrolled at least half time. Unsubsidized loans are also available based on the student’s cost of attendance and other financial aid. These loans require the student to pay or accrue the interest while enrolled, although the principal amount of the loan is deferred. Borrowers begin repaying both subsidized and unsubsidized Stafford loans at the end of at least half-time enrollment. Interest rates are currently 6.8% but may vary with legislative changes.

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

Tennessee Teaching Scholars and Graduate Nursing Loan Forgiveness Programs—Information about these programs is available at www.CollegePaysTN.com.

Veterans Affairs
To find information on Veterans Affairs, go to the Student Services section of this catalog.

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

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

Various student services are described below. Additional information about any of these services can be secured by contacting the Office of Student Affairs, upper level of the D.P. Culp University Center, phone (423) 439-4210 - www.etsu.edu/students/.

Student Services and Resources

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

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

• Advisement, Resources, and Career Center—The Advisement, Resources, and Career Center (ARC) is located on the second level of the D.P. Culp University Center next to the Bookstore, phone (423) 439-8650. The ARC is open Monday-Friday 8:00 a.m. - 4:30 p.m.-www.etsu.edu/arc
University Tutoring Services—An academic support program that offers a variety of tutoring approaches. UTS offers group and online tutoring for selected high-risk core courses. These services are free and available to all ETSU students. Visit our web site at www.etsu.edu/ses/uts.

Peer Career Center—Located in the ARC, the Peer Career Center is a starting place for students who are uncertain about their choice of academic major or career. With the assistance of our professional staff, career interest inventories, personality inventories, and an extensive career library, we can help students identify career options that suit their personal needs. These services are free to current ETSU students. Limited services are available to potential students and ETSU alumni. Visit our web site at www.etsu.edu/students/counsel/peercareer.htm.

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

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

Alumni Return to the Classroom ($25 donation is required) is an opportunity to return to your alma mater and share your experience and expertise with today’s students. You will have the chance to meet classmates and share your career path and experiences with current students. Visit www.etsu.edu/alumni/index.asp.

America Reads Challenge—The America Reads Program hires, trains, and places federal work-study students at schools and community centers in Johnson City and its surrounding counties to provide one-on-one and small group instruction to children who read below the third-grade level. Through this outreach to the community, local children and youth receive personalized tutoring needed in order to excel in reading thus boosting their confidence, motivation and overall academic achievement. Tutors become deeply engaged in the child’s learning experience, gaining valuable skills and abilities that will positively affect their own future endeavors. For more information contact 439-8587 or email amreads@etsu.edu. Students who do not receive federal work-study funds may serve as volunteers.

Appalachian Studies and Services—The Center for Appalachian Studies and Services, a Tennessee Center of Excellence, coordinates instruction, research, and public service programs that address quality of life issues in the Appalachian region. The center encompasses the Archives of Appalachia, the B. Carroll Reece Museum, the Regional Resources Institute, and supports the minor in Appalachian Studies; the Bluegrass, Old-Time, and Country Music Program; Appalachian, Scottish, and Irish Studies Program; the Encyclopedia of Appalachia; the Governor’s School for Tennessee Heritage; and a host of other activities. The center offers internships for qualified students. The center's administrative offices are located at 217 Roy Nicks Hall, phone (423) 439-7985, e-mail cass@etsu.edu, http://www.etsu.edu/cass/.

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

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

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

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

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

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

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

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

Six labs contain 157 Dell PCs, 60 wireless Dell laptops and 24 Macintosh computers. A growing software library is available in each lab, and all computers are connected to the campus network. Software currently available in the D.P. Culp Lab, Rogers-Stout 320, and Lucille Clement labs are Microsoft Windows XP; Microsoft Office XP; Microsoft Visual Studio, Net 2003, Internet Explorer, Internet-based e-mail, most Adobe and Macromedia products, SAS, SPSS, and Minitab along with McAfee virus protection software. The currently available software in Warf-Pickell 419 is Photoshop, PageMaker, Quark-XPress, and Macromedia Freehand. When not in use as classrooms, computers labs are available for walk-in use by any registered student.
The computer labs are staffed by Lab Monitors (student workers) at all times. They are supervised by a central Lab Manager. Lab Monitors help users with common problems and keep the lab secure and orderly. They are not tutors.

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

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

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

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

Any use of the resource deemed irresponsible or unethical (as defined in the Faculty Handbook section 1.10.1) will result in the immediate denial of use of the resource. The violation will be referred to the proper authorities for disciplinary and/or legal action including, but not limited to, restitution, restriction, reprimand, suspension, probation, expulsion, termination, and, if necessary, legal action.

Appeals will be handled through due process channels (APA) already established for students and/or staff. Student violations will be referred to the Vice President for Student Affairs and/or Vice President for Health Affairs; faculty violations will be referred to the Vice President for Academic Affairs and/or the Vice President for Health Affairs; and staff violations will be referred to the Vice President for Finance and Administration.

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

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

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

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

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

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

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

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

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

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

Users should not use or attempt to use an account without authorization from the owner of that account. Users have the responsibility of protecting their accounts through the proper use

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of passwords, but the fact that an account is unprotected does not imply permission for an unauthorized person to use it. Further, accounts are to be used only for the purposes for which they have been established. [Only the individual owner of an account is authorized to use that account. Providing passwords or in any way permitting or making it possible for anyone other than the authorized owner of the account to use computer resources is not authorized and may be a violation of Tennessee Law. Under this condition both the owner and the unauthorized user may be subject to legal action if determined to be appropriate by ETSU legal counsel.] Additionally, it is wrong to use a university-sponsored account for funded research, personal business, or consulting activities. There are special accounts for such purposes.

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

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

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

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

**Electronic Mail Policy**—This policy was adopted by the Information Technology Governance Committee on February 17, 2009.

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

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

Revised 1/2009

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

**Cooperative Education**—Cooperative education provides an opportunity to earn academic credit in most disciplines for carefully planned and supervised work experience in business, industry, health, and governmental agencies. Students may take classes while in a co-op placement, or alternate between semester placements. Information about the cooperative education program can be obtained through the Office of Career Placement and Internship Services located in the ARC Center, 2nd level, D.P. Culp University Center; phone (423) 439-5388.

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

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

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

In order to establish eligibility, the documentation provided should follow the established guidelines and include:
- Statement of diagnosis, date of most recent evaluation, and when available, date of original diagnosis by an impartial professional,
- Description of diagnostic criteria and/or diagnostic tests used,
• Description of the current impact of the disability in an academic environment,
• Credentials of the diagnosing professional,
• Documentation of physical disabilities is required but if the disability is obvious; for example, a mobility impairment, visual impairment, or hearing impairment; extensive documentation may not be needed.
• Documentation of mental health related disabilities should be no more than one year old
• Documentation of attention deficit disorders should be no more than three years old, and
• Documentation of learning disabilities should be no more than five years old with results based on an adult measurement scale.

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

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

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

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

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

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

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

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

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

Campus ID Services Office
Box 70611
Johnson City, TN 37614
Phone: 423-439-8316
http://www.etsu.edu/id

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

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

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

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

• The Center for Adult, Commuter, and Transfer Services, located in the ARC Center on the 2nd level of the Culp University Center, has a supply of most printed material available on campus. Staff members are willing to locate the information desired, if it is not already available in the office. Hours are 8 a.m. - 4:30 p.m. Monday-Friday. Phone 0 if on campus and (423) 439-5641 if off campus.
• **Insurance**—It is the responsibility of all students to provide hospitalization insurance for themselves if they desire to have coverage in the event of an illness or in case of injury while attending the university. For those students not having protection under a family insurance plan or for those who want additional coverage, ETSU has arranged for a special student insurance policy. Application forms and information pertaining to this insurance are available in the Student Health Clinic located in Nicks Hall.

• **International Programs and Services**—The International Programs and Services Office, located on the first floor of Yoakley hall, serves the international community of visiting international students and scholars from more than 60 countries who attend or visit ETSU. Programming, advising, immigration paperwork, community outreach and the Friendship Family Program are among the many services offered by the office. (www.etsu.edu/international)

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

• **Leadership Development**—Educating future leaders is the purpose of higher education. ETSU believes all graduates will play a leadership role in their careers, families, and/or communities. Preparing for these opportunities can be accomplished by participation in service initiatives, taking Leadership courses, enrolling in the Leadership Minor, and participation in campus organizations.

For more information about Leadership Development, contact Dr. Deborah Harley, Assistant Professor of Human Development and Learning, Claudius G. Clemmer College of Education, harley@etsu.edu, (423) 439-7692.

• **Libraries**—The current Sherrod Library, containing the major learning resources that support the university’s program of teaching and research, opened in 1999. The collections include one-half million volumes, over one million microforms, over 12,000 periodical subscriptions (electronic and print), more than 350,000 federal and state documents and maps, audiovisual media, and the state depository collection of K-12 state-adopted textbooks. All of the materials in the collections can be found in the MILLENNIUM catalog, which is accessible from any Internet-connected computer.

Over sixty computers (including 25 laptops) are distributed throughout this state-of-the-art, wireless building which has more than 1,800 seats. A study room open 24 hours a day is accessible with a student ID. (423) 439-5309 - http://sherrod.etsu.edu

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

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

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

Exhibits include annual quilt exhibitions, items from the permanent collections, contemporary art, and traveling displays. The museum is at the junction of Stout Drive and Gilbreath Circle on the East Tennessee State University campus. All events and admission are free to the public. Allow one hour minimum. Gallery hours are 9 a.m. until 4 p.m., Monday-Wednesday and Thursday, 9 a.m. until 7 p.m., closed holidays and the week of December 25.

Phone: (423) 439-4392. www.etsu.edu/reece/

The George L. Carter Railroad Museum is located in 113 Campus Center Building on the ETSU campus in Johnson City. Devoted to the region’s historical ties to railroads, the museum is dedicated to the memory of George L. Carter who built the Clinchfield Railroad through 275 miles of mountainous terrain to carry coal from Eastern Kentucky. In 1909, when the state’s selection committee visited the area while searching for a site for a proposed teachers college, Carter offered his 120-acre farm and $100,000 toward the establishment of the school, which became ETSU. The Museum is open Saturdays, 10 a.m. to 3 p.m. Phone: 423-439-3382.

The ETSU & General Shale Brick Natural History Museum & Visitor Center introduces visitors to the 5-million year old Gray Fossil Site, discovered in 2000 by TDOT highway crews. Opened to the public in August, 2007, the museum offers tours of an ongoing fossil dig, interactive exhibits, and educational programs for people of all ages. The museum also features temporary traveling exhibits that change three times a year and is open daily 8:30 am until 5 pm except for 3 major holidays: Christmas Day, New Year’s Day and Thanksgiving Day. ETSU students are granted ½ price admission with valid ID cards. For more information, visit www.grayfossilmuseum.com or call toll-free 1-866-202-6223.

• **Printing and Publications**—The ETSU Office of Printing and Publications is the clearance house for all campus printing. Located in the lower level of Sam Wilson Hall, Printing and Publications provides comprehensive graphic services for brochures, booklets, programs, newsletters, fliers, etc., at no charge to departments. In addition to business cards, letterhead, envelopes and invitations, Printing and Publications will also obtain quotes from vendors for all ETSU printing needs, large and small. For those publications requiring a Tennessee Board of Regents printing number along with proofreading, that too is handled through Printing and Publications. For more information, call (423) 439-4250.

• **Service Programs**—ETSU’s commitment to service is evident through the campus mission statement and the numerous opportunities we provide students. Students are encouraged to expand their intellectual and social development. For more information, contact the Student Organization Resource Center at (423) 439-6633.

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

The Center for Community Engagement, Learning, and Leadership serves as the resource center for all registered student organizations. We provide services and information, such as registration of organizations, assistance with event planning, maintenance of student activity calendar of events, and leadership training for student organizations.

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

Advertising Club
American Association of Family and Consumer Sciences
American Congress on Surveying & Mapping
American Marketing Association
American Medical Association
American Medical Student Association
American Pharmacists Association
American Society of Interior Design
American Society for Microbiology
Anthropos
Art History Society
Association for Computing Machinery
Chi Sigma Tau (Eta Tau Sigma Chapter)
Chinese Club
Club Cervantes (Spanish Club)
Construction Management Association
Criminal Justice Society
Der Deutsche Klub (German Club)
Doctoral Nursing Students
Economics Club
Educational Leadership Association
Entrepreneurs' Club
Exercise and Sports Sciences Club
Fiber Club
Future Doctors of Audiology
Geology Club
Graduate Student Assn. Of Psychology
Japanese Cultural Society
Kappa Epsilon
Kappa Psi
La Societe Francaise (French Club)
Masters of Social Work student Association
National Community Pharmacists Association
National Student Speech Language Hearing Association
Organization of Student Representatives (College of Medicine)
Patchwork Players
Percussion Society
Philosophy Club
Physical Education Club
Pre Dental Student Association
Pre Pharmacy Club
Psychology Club
Public Health Student Association
Public Relations Stud. Society of America
Public/City Management Association of Graduate Students
Respiratory Therapy Association
Society for Human Resource Management
Society of American Archivists
Society of Professional Journalists
Student ACM Siggraph at ETSU (EDGE)
Student Association for Young Children
Student Ceramic Association
Student Dietetic Association
Student Metal Art Connoisseurs
Student National Medical Association
Student Nurses Association
Student Painting, Drawing Association
Student Photography Association
Student Social Workers Association SSWA
Student Society of Health System Pharmacy
Student Speech Communication Association
Student Tennessee Education Association
Student Women in Medicine (SWIM)
Students of Finance Association
Taletellers
US Institute of Theater Technology
Written Off Literary Society

Honor Societies

Alpha Lambda Delta
Alpha Phi Sigma
Alpha Sigma Iota
Alpha Sigma Lambda
Beta Alpha Psi

Beta Beta Beta
Delta Phi Alpha (German Honor Soc.)
Gold Humanism Honor Society
Golden Key
Iota, Iota, Iota
Kappa Delta Pi
Kappa Kappa Psi
Kappa Omicron Nu
Kappa Tau Delta
Lambda Nu
Lambda Pi Eta
National Residence Hall Honorary Society
Phi Alpha Honor Society
Phi Kappa Phi
Phi Sigma Phi
Pi Delta Phi Honor Society
Psi Chi
Sigma Alpha Iota (Music)
Sigma Alpha Lambda
Sigma Delta Pi
Sigma Tau Delta

Religious

708 Ministries
11:58 Ministries
Adventist Christian Fellowship
All Saints College Ministries
Alpha Chi-Rho Omega
Baptist Collegiate Ministry
Campus Crusade for Christ
Catholic Campus Ministries
Chi Alpha Christian Fellowship
Christian Pharmacists Fellowship International
Christian Student Fellowship
Episcopal University Ministry
Heritage
Hillel Student Organization
Latter Day Saint Student Association
Muslim Student Organization
Presbyterian Student Fellowship
Reformed University Fellowship (RUF)
The Way
The Well
Wesley Foundation at ETSU

Greek

Alpha Delta Pi Sorority
Alpha Phi Alpha Fraternity
Alpha Xi Delta Sorority
Delta Sigma Theta Sorority
Kappa Delta Sorority
Kappa Sigma
Lambda Chi Alpha Fraternity
Phi Beta Sigma Fraternity
Phi Sigma Phi
Pi Kappa Alpha Fraternity
Sigma Alpha Epsilon Fraternity
Sigma Beta Rho
Sigma Chi Fraternity
Sigma Kappa Sorority
Sigma Nu Fraternity
Sigma Phi Epsilon Fraternity
Zeta Phi Beta

Community Service

Alpha Phi Omega
Alternative Spring Break
First Book
Habitat For Humanity
Relay for Life
Up Til Dawn
Volunteer ETSU

Governance

Graduate & Professional Student Association
Honors College Student Council
Interfraternity Council
Multicultural Greek Council
Special Interest Groups

- African Diaspora Society
- Amnesty International of ETSU
- Army Combatives Club
- Atheist and Free Thought Club
- Buc Paintball Club
- Buc Wild
- Bucs Against Drunk Driving
- Chinese Student & Scholars Association
- Climbing Club
- College Democrats
- College Republicans
- Collegiate Merchandising Association
- Cycling Club
- Dance H.I.T.S.
- Duck Squad
- Eddie Reed Ranger Challenge Team
- Feminist Majority Leadership Alliance
- Fencing Club
- Foundation for the International Medical Relief of Children
- Gaming Society at ETSU
- Greenpeace
- Gospel Choir
- Huck n’ nears
- Initiative for Clean Energy
- Leadership House
- LGBTQI+Club
- Llamas
- Marksmanship Club
- Martial Arts Club
- Men’s Soccer Club
- NAACP
- NAMI-Bucs
- Pershing Rifles Drill Team
- Racquetball Club
- Scabbard and Blade
- Shootin’ Bucs
- Silent Bucs
- Society for Intellectual Diversity
- Student Council for Exceptional Children
- SPIRIT (Student Paranormal Investigative Researchers in TN)
- Students Against Violence
- Students for a Democratic Society
- Students for Life
- Students of American Liberty
- Students United for Peace and Justice
- Tennis club
- Thunder Down Under
- U.S. Army ROTC Running Team
- White Water Adventures

Residence Life

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

University Programs

- Admissions Ambassadors
- Black Affairs Association
- Buctainment
- East Tennessean
- International Student Organization
- Student Service Board-Kingsport
- The NET
- Preview and Orientation Leaders Organization (POLO)
- President’s Pride

- 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.

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

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

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

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

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

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

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

- School of Continuing Studies and Academic Outreach — An academic service provider for the university, the School of Continuing Studies and Academic Outreach offers a variety of opportunities. The Division of Cross-Disciplinary Studies makes it possible to offer degree programs or selected courses at the work place or in local communities through Cohort Programs. The Bachelor of General Studies, Bachelor of Applied Science, Bachelor of Science
in Professional Studies, and the Bachelor of Science in Interdisciplinary Studies programs serve non-traditional students who need courses off-campus, in the evening, or online. The Master of Arts in Liberal Studies and the Master of Professional Studies allow adult students to pursue interdisciplinary study in a variety of areas. A regional center in Kingsport affords students the opportunity to remain close to home and pursue a degree.

- **Summer School**—The Office of Summer School Programs works in conjunction with the colleges at ETSU to examine opportunities for enhancing summer enrollment by providing extensive course options and programs for students, and encouraging faculty to be innovative and creative in the development of new courses.

- **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. The mission of the Office of Service-Learning is to make service an integral part of student education, fostering a sense of social responsibility and social justice, and creating an expectation of service as an intentional part of the collegiate experience. Many disciplines integrate service-learning into their courses. 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. Contact the Office of Service-Learning at (423) 439-8218.

- **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.

- **Student Health Services**—East Tennessee State University students enjoy the benefits of a modern health care service. The Student Health Clinic is part of the College of Nursing Faculty Practice Network. Clinic Services are available to all enrolled students. The professional staff includes nurse practitioners, physicians, registered nurses, and a health educator. Services include:
  - Management of acute, episodic illnesses and injuries
  - Referrals for assistance in managing chronic disorders
  - Immunizations
  - Women’s health program and assistance with family planning
  - Men’s health program
  - Allergy clinic for those receiving allergy injections
  - Patient education programs on a variety of topics

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

- **Dental Hygiene Clinic**—The Dental Hygiene Clinic of the Department of Allied Health Sciences offers comprehensive preventive and 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).

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

- **ETSU Welcome Center**—The ETSU Welcome Center is home to several offices as follows:
  - **Scholarship Office**—coordinates most of the academic and need-based scholarships. The office provides information and scholarship applications for ETSU scholarships and serves as a resource for external scholarship information. [www.etsu.edu/scholarships](http://www.etsu.edu/scholarships)
  - **Undergraduate Student Advisement**—This office is the home of ETSU’s Director of University Advisement. The office provides advisor training, coordinates the Need Help web site, and oversees the Partners in Education Program.
  - **Campus Tours**—Please call (423) 439-4221 to schedule a campus tour. We can also schedule a meeting with a graduate program coordinator. For a virtual visit to ETSU, try our web site at [www.etsu.edu](http://www.etsu.edu).

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

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

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

Among the administrative offices housed within the building are the Counseling Center, Career and Internship Services, Vice President for Student Affairs, Student Support Services, Upward Bound, Food Services, 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.

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

**Benefit Programs**

Primary entitlement programs administered by the Veterans’ Affairs office:

- **Montgomery GI Bill – Active Duty (MGIB-AD) Educational Assistance Program** [Authority: Chapter 30, Title 38 United States Code (USC)];
- **Vocational Rehabilitation & Employment (VR&E) Program** [Authority: Chapter 31, Title 38 USC];
- **Reserve Educational Assistance Program (REAP)** [Authority: Chapter 1607, Title 10 USC];
• Montgomery GI Bill – Selected Reserve (MGIB-SR) Educational Assistance Program [Authority: Chapter 1606, Title 10 USC];
• Survivors' & Dependents' Educational Assistance (DEA) Program [Authority: Chapter 35, Title 38 USC];
• Veterans' Work-Study Allowance Program [Authority: Chapters 30, 31, 35 of Title 38 & Chapters 1606 & 1607 of Title 10 USC];
• Veterans' Tuition & Fee Deferment Program [Authority: § 407-104 Tennessee Code Annotated (TCA)].

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

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

Questions regarding USDVA applications/benefit payments status (except VR&E) should be directed to:
Central Region Processing Office
United States Department of Veterans Affairs
Post Office Box 66830
Secure e-mail: https://www.gibill2.va.gov
Saint Louis, Missouri  63166-6830  888.GIBILL.1 (442.4551)

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

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

If a beneficiary previously used benefits elsewhere, a change in program or place of training form must be completed.

Policies & Procedures
1. As soon as students are enrolled for classes, they should contact Veterans’ Affairs each semester to request a certification of enrollment to the USDVA Regional Processing Office (RPO). Only required courses in the student's officially declared academic program may be certified. RPO processing of enrollment certifications of the school can vary but generally require 45-60 days so students should plan accordingly for their personal finances.
2. Students must keep Veterans' Affairs informed of all change(s) in enrollment so that timely reports can be made to the USDVA RPO.
3. Beneficiaries must attend classes and demonstrate satisfactory conduct and effort toward meeting the course requirements. Failure to maintain satisfactory attendance and conduct may result in retroactive adjustments in certified training time that will likely result in an overpayment of benefits that will be collected by the USDVA.

4. Monthly self-verifications of enrollment can be accomplished securely online at https://www.gibill.va.gov/wave/ or toll-free at 877.823.2378. Interval payments (benefit payments for the time between terms) are also automatic when a beneficiary stays continuously enrolled. Retroactive payments occur only when the RPO processes an enrollment certification for a subsequent term.
5. A student needs only to remain in good academic standing with the institution for continued receipt of benefits.
6. A course for which a student receives an “Incomplete” must be graded within one year or the beneficiary will be subject to a retroactive adjustment in the semester's training time likely resulting in an overpayment and recovery of benefits.
7. Pre-professional declarations (e.g., Pre-Med, Pre-Law, etc.) as the student’s major and/or enrolling in courses to meet prerequisites for professional study are not approved objectives currently approved by the USDVA.
8. Military registry transcripts are required of all beneficiaries in undergraduate studies who have military service (see separate topic on how to request military registry transcripts). For credit-by-examination policy (e.g., CLEP, DSST, etc.), students should consult the “Non-Traditional Credit” pamphlet available from Undergraduate Admissions.
9. Beneficiaries are expected to regularly consult with their academic advisor and to refer to their respective catalog of admission on academic requirements, policies and procedures. Moreover, students are expected to clearly identify their degree, major (including concentrations, emphasis, tracks, etc.) and minor, as required.
10. All changes to a student’s academic program (except VR&E) must be reported to Veterans’ Affairs office for the completion of the appropriate forms and USDVA reporting. The academic program on file with Veterans’ Affairs must agree with what is declared with the university. VR&E beneficiaries must coordinate any changes in their academic program with their case manager who must approve a program change. Failure to report or coordinate changes of academic programs will likely result in delayed receipt of benefit payments.

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

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

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

Military Mobilizations
A student may withdraw at any time during the semester for active military service and the student’s academic record will be annotated as a withdrawal for military reasons. A copy of official military orders or other official supporting documentation must be submitted for review in advance of withdrawing. Depending on the nature/authority of the call to active duty, payments under certain federal benefit programs may be kept and entitlement used during the interrupted term restored to the beneficiary’s entitlement. Tuition and fees may also be refunded under certain instances of active military duty. Students receiving financial aid should check with the Financial Aid Office for the handling of Title IV funds awarded. Students should contact any student loan lenders and inform them of their military status to avoid entering student loan repayment status and other possible adverse collection actions while serving on active duty.

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

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

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

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

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

On-campus living offers many ways for residents to experience individual growth and development. Residents have the opportunity to participate in academic and leadership experiences such as: The First Year Program; 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/apartments are centrally located and provide an environment for living and learning. University housing includes residence halls/apartments for single students and apartments for family housing. All residence halls have rooms furnished with twin-size beds; desk; chairs; closets; mini-blinds; and telephone and cable TV hookup. Some halls have carpeted hallways; laundry; kitchen and vending facilities; and adjacent parking. All rooms/apartments are wired for data access. Smoking is prohibited in all campus buildings, including the residence halls and apartments. Private rooms/apartments are available on a first-come, first-served basis.

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

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

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

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

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

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

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

The Department of Housing and Residence Life is located in room 108, Burgin E. Dossett Hall. The mailing address is:
East Tennessee State University
P.O. Box 70723
Johnson City, TN 37614-1710
Telephone (423) 439-4446
Fax: (423) 439-4690
e-mail: housing@etsu.edu
website: www.etsu.edu/students/housing/

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

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

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

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

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

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

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

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

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

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

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

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

1. **How do I find and apply for a graduate assistantship or tuition scholarship?**
   To apply for a Graduate Assistantship (GA) or Tuition Scholarship (TS), you must first check the appropriate box on the graduate paper application, or indicate “Yes” on the online application that you are interested in these awards. Once you have submitted your application, it will be forwarded to the graduate coordinator assigned to your program. We strongly encourage you to contact the department in which you wish to work and express your interest in a GA or TS. If you are unable to find a position in your department, you can find postings of other available GA and TS positions on our website at <http://www.etsu.edu/gradstud/gasch/positions.asp>.

2. **I'm from Buncombe County, N.C., or Wise County, V.A. Do I qualify for a border county waiver of out-of-state tuition?**
   No, but you may qualify for other awards. Please contact the School of Graduate Studies for additional information.

3. **How many graduate hours taken at ETSU or another university can I transfer into my graduate program at ETSU?**
   Nine hours, maximum. For more information about transfer of course hours, see “Transfer of Credit.”

4. **If I receive an Incomplete in a course, how long do I have to complete the coursework?**
   One calendar year is the maximum amount of time to finish an Incomplete. See “Incomplete Grades” for more information.

5. **How do I register for my courses?**
   Registration online is available through Goldlink. Visit <http://goldlink.etsu.edu> for registration instructions and login. You can also register in person at the Registrar's Office, 102 Dossett Hall, 423-439-4230.

6. **How do I pay my fees at ETSU?**
   You can pay fees online, by mail, or in person. Bills for tuition and fees are not mailed to students. To see your account statement, visit <http://goldlink.etsu.edu>. To pay online, you must use Visa, Discover, or MasterCard and have a student ID number. You can mail checks to Office of the Comptroller, Box 70719, ETSU, Johnson City, TN 37614. Be sure to mail your check in time to be received in the Comptroller’s Office before the payment deadline. To pay in person, see a cashier in the Comptroller’s Office, 202 Dossett Hall.

7. **How do I get a parking sticker at ETSU?**
   For information about parking stickers for campus parking and parking regulations, contact the Parking Services Office, 908 W. Maple St., 423-439-5650.

8. **How do I get an e-mail account at ETSU?**
   All ETSU students have goldmail e-mail accounts and receive important campus messages through these accounts. To access your goldmail account, see <http://www.etsu.edu/oit/students/goldmail/>.
Doctorate Degrees
Audiology (Au.D.)
Biomedical Sciences (Ph.D.)
Educational Leadership and Policy Analysis (Ed.D.)
  Administrative Endorsement
  Classroom Leadership
  Postsecondary Leadership
  School Leadership
Environmental Health Sciences (Ph.D.)
Nursing (Ph.D.)
Physical Therapy (D.P.T.)
Psychology
  Clinical (Ph.D.)
Public Health (Dr.P.H.)
  Community Health
  Epidemiology
Sport Physiology and Performance (Ph.D.)
  Sport Physiology
  Sport Performance

Specialist Degrees
Educational Leadership and Policy Analysis (Ed.S.)
  Administrative Endorsement
  Counseling Leadership
  Teacher Leadership
  School System Leadership

Master’s Degrees
Accounting (M.Acc).
Allied Health (M.S.A.H.)
Art (M.A.)
  Art History
  Studio Art
Art (M.F.A.)
  Studio Art
Biology (M.S.)
  Biology
  Microbiology
  Paleontology
Business Administration (M.B.A.)
Chemistry (M.S.)
Clinical Nutrition (M.S.)
Communication, Professional (M.A.)
Audiology and Speech-Language Pathology (M.S.)
  Speech Pathology
Computer and Information Science (M.S.)
  Applied Computer Science
  Information Technology
Counseling (M.A.)
  Community Agency Counseling
  Elementary and Secondary School
  Higher Education
  Marriage and Family Therapy
Criminal Justice (M.A.)
Early Childhood Education (M.A.)
  Early Childhood
  Early Childhood Teaching
Educational Leadership and Policy Analysis (M.Ed.)
  Administrative Endorsement
Educational Media and Educational Technology (M.Ed.)
  Educational Communications and Technology
  School Library
Elementary Education (M.Ed.)
English (M.A.)
Environmental Health (M.S.E.H.)
  Administrative Program
  Specialist Program

Graduate Degree Programs, Concentrations, and Certificates
History (M.A.)
Kinesiology, Leisure and Sport Sciences (M.A.)
  Exercise Physiology and Performance
  Physical Education K - 12
  Sports Management
Liberal Studies (M.A.L.S.)
  Archival Studies
  Mathematical Sciences (M.S.)
  Precollegiate Mathematics
  Nursing (M.S.N.) and RODP (M.S.N.)
  Professional Studies (RODP) (M.P.S.)
  Training and Development
Psychology
  Clinical (M.A.)
  General (M.A.)
  Public Administration (M.C.M. and M.P.A.)
  City Management
  Not-for-Profit Administration
  Planning and Development
  Public Financial Management
Public Health (M.P.H.)
  Biostatistics
  Environmental Health
  Epidemiology
  Health Services Administration
  Community Health
  Secondary Education (M.Ed.)
  Social Work (M.S.W.)
  Advanced Standing
  Traditional Entry
Sociology and Anthropology (M.A.)
  Applied
  General
  Special Education (M.Ed.)
  Reading (M.A.)
  Reading Education
  Storytelling
  Special Education
  Early Childhood Special Education
  Teaching and Learning, Advanced Studies (M.Ed.)
Teacher Education with Multiple Levels (M.A.T.)
Technology (M.S.)
  Digital Media
  Engineering
  Entrepreneurial Leadership
  Geoscience

Graduate Certificates
Archival Studies
Biostatistics
Business Administration
Economic Development
Emerging Technologies
Entrepreneurial Leadership
Epidemiology
Forensic Document Examination
Gerontology
Health Care Management
Health Care Translation and Interpreting
Nursing, Advanced Nursing Practice (Post-Master ’s)
Rural Health
School Library Professional
Teaching English as a Second Language
Urban Planning
Graduate Programs

Program and Course Information

This section of the catalog provides narratives on graduate programs, concentrations, and certificates alphabetically by department. As well as specific information on admission criterion and fulfillment of graduate degree and certificate requirements. Specific courses are also listed.

The following courses are available under individual department offerings but cannot be counted toward the minimum requirements for the degree. They are designed to provide supervision and assistance to graduate assistants and to monitor their assignments.

Supervised Experience in Teaching (XXXX-5019)
Supervised Experience in Research (XXXX-5029)
Supervised Experience in Administration (XXXX-5039)

Graduate Faculty Rosters

Faculty rosters appearing in the following contain an alphabetical list of graduate faculty members participating in each program. A complete current listing of senior and regular members of the graduate faculty, in addition to their rank, title, and places of study can be found in the back of this catalog.

Accountancy

Master of Accountancy

Graduate School Contact:

Cindy Hill; hillcc@etsu.edu; 423-439-6590

Martha M. Pointer, Ph.D., Associate Dean for Graduate Studies in Business and Technology

214 Sam Wilson Hall
Box 70699
(423) 439-5314 Fax: (423) 439-5274
e-mail: pointer@etsu.edu

Gary D. Burkette, Ph.D., Chair, Graduate Coordinator

220 Sam Wilson Hall
Box 70699
(423) 439-4432
e-mail: burkette@etsu.edu

Faculty:

Murray S. Anthony; Gary Berg; Gary D. Burkette; Richard A. Manahan; Thomas E. McKee; Robert Morgan; Martha Pointer; Kent Schneider; Mark Steadman.

The Master of Accountancy degree (M.Acc.) is designed for individuals who desire advanced study of accountancy and seek professional careers in public accounting, industry, and government. The M.Acc. program is fully accredited by AACSB International - The Association to Advance Collegiate Schools of Business. The M.Acc., together with the B.B.A. degree, meet the educational requirements for Certified Public Accountants in Tennessee and all other states. Furthermore, the M.Acc. is a major step toward obtaining the credentials necessary for a teaching career in accountancy. The M.Acc. program covers financial and managerial accounting, auditing, taxation, and regulation, as well as providing exposure to topics representative of the larger business environment.

Admission Requirements

A student applying to the M.Acc. program must be eligible for admission to the university as a graduate student and must meet the admission criteria for the program. The student must submit transcripts of all academic work previously completed and scores on the Graduate Management Admissions Test (GMAT). Admission criteria include the applicant's undergraduate grade point average and satisfactory scores on the GMAT. The applicant is presumed to have computer literacy and an understanding of mathematics. Questions relating to admission requirements should be addressed to the Associate Dean for Graduate Studies in Business and Technology.

Students admitted to other graduate programs in the university may enroll in selected graduate accountancy courses if appropriate course prerequisites have been completed. Non-degree students, visiting students, and applicants awaiting admission to the M.Acc. program may not register for graduate accountancy or business courses without prior approval of the Associate Dean for Graduate Studies in Business and Technology.

Course Requirements

Accountancy Foundation Courses:

ACCT 5000 Essentials of Accounting ........................................... 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 Accounting ............................................... 3
ACCT 4310 Accounting Information Systems ................................ 3
ACCT 4610 Auditing Theory & Practice ....................................... 3
ACCT 4717 Not-for-Profit Entity Accounting .................................. 3

Business Foundation Courses:

ECON 5000 Essentials of Economics .......................................... 3
ECON 5010 Essentials of Statistics .............................................. 3
FNCE 5000 Essentials of Finance ................................................. 3
MKTG 5010 Essentials of Marketing .......................................... 3
MGMT 5010 Essentials of Management ....................................... 3
MGMT 5020 Legal & Social Environment .................................... 3
MGMT 5030 Quant. Analysis for Operations ................................. 3
Management

Maximum ................................................................................. 48 Credit Hours

Accountancy Core Courses

ACCT 5010 Seminar in Financial Accounting I ......................... 3
ACCT 5110 Seminar in Managerial Accounting ......................... 3
ACCT 5510 Seminar in Accounting Regulations ....................... 3
ACCT 5427 Federal Income Taxes II ............................................ 3
ACCT 5610 Seminar in Auditing .................................................. 3

Business Core Courses

BADM 5140 Data Analysis Model for Business ....................... 3
BADM 5220 Global Business ..................................................... 3

One of the following:

BADM 5210 Operations and Technology Strategy
BADM 5340 Human Resource Strategy
BADM 5400 Market Strategy ..................................................... 3

Electives and Capstone

Electives** .............................................................................. 6
ACCT 5890 Professional Accounting Experience** ................... 3

Total Hours Required for Degree ............................................. 33 Credit Hours

* For those students with recent formal academic preparation in accountancy or business administration, one or more foundation courses may be waived by the Director of Graduate Studies in Business.
** All elective must be at the graduate level and must be approved by the Associate Dean for Graduate Studies in Business and Technology prior to registration. The six credits of free electives will be selected to meet students' special interests and needs. Students who have not completed more than six credits of undergraduate statistics will be required to take ECON 5010. Foundation courses may not be taken for elective graduate credit.
*** This course fulfills the Cultivating Experience requirement in the M.Acc. program.

The length of the M.Acc. program will depend upon a student's prior academic work and the number of courses to be taken per semester. The well-prepared full-time student can complete the program in three semesters. Part-time students can complete the program through evening classes at the ETSU main campus. Students can take selected courses at ETSU at Kingsport, via the instructional television system, at sites throughout Northeast Tennessee, or via CD rom.
East Tennessee State University

Advanced Studies in Teaching and Learning

Master of Education in Advanced Studies in Teaching and Learning

Graduate School Contact:
Robin O'Dell; odell@etsu.edu; 423-439-6148

Martha Collins, Ph.D., Graduate Coordinator
205 Warf-Pickel Hall
Box 70684
(423) 439-7845
e-mail: collinsm@etsu.edu

Faculty: *See Curriculum and Instruction

Admission Standards

The major purpose of this degree is to improve the quality of teaching at the elementary level by broadening the background of teachers in the literacy as related to elementary teaching and preparing teachers as action researchers.

Students applying to graduate programs in the Department of Curriculum and Instruction must first meet general requirements of the School of Graduate Studies. In addition, the following specific admission criteria apply:

1. A candidate who has an undergraduate GPA of 3.0 or above on a 4.0 scale for all work completed is eligible for admission.
2. A candidate who has an undergraduate GPA of less than 3.0 on a 4.0 scale may be granted admission by either of the following two (2) procedures:
   a. Obtaining a minimum of 2,400 points based on the following formula:
      *the sum of the GRE aptitude scores (V+Q+AW); GPA x 500; and
      The sum of numbers (1) and (2).
   b. Participating in an interview with the appropriate admission committee. The candidate will be responsible for providing the admission committee with information for consideration in admission decisions. Factors to be considered include teaching experience; scores on standardized tests; GPA during the entire undergraduate experience, during the last two (2) years of undergraduate school, and in the major; performance in graduate course work; recommendations of supervisors and colleagues; quality of undergraduate school(s) attended; oral communication skills; and skill in writing, which will be determined in part by the candidate's extemporaneous writing during the interview.

Matriculation: The coordinator of the program to which the prospective candidate has been admitted serves as the initial advisor. When students become eligible for candidacy, their advisory committees are selected by the student and approved by the program coordinator. Students who anticipate candidacy for a degree are strongly encouraged to take courses based on guidelines provided by their advisor.

Students determining to complete the Master of Education degree in Advanced Studies in Teaching and Learning are required to meet with the chair of the advisory committee to plan the sequence of courses leading to the degree. They must successfully complete the required professional development courses.

A comprehensive oral final examination is required of all students completing graduate programs in advanced education. Presentation of the Professional Level of Teaching portfolio is a required part of the oral examination. Candidates meet with their advisor at the beginning of the final semester to plan for these examinations. Specific program requirements are indicated below:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTL 5701</td>
<td>Teacher as Learner</td>
<td>3</td>
</tr>
<tr>
<td>ASTL 5700</td>
<td>Portfolio Development</td>
<td>3</td>
</tr>
<tr>
<td>ASTL 5721</td>
<td>Theory and Foundation of Development</td>
<td>3</td>
</tr>
<tr>
<td>ASTL 5723</td>
<td>Understanding and Implementing Best Practices</td>
<td>3</td>
</tr>
<tr>
<td>ASTL 5725</td>
<td>Understanding and Implementing Best</td>
<td>3</td>
</tr>
</tbody>
</table>

Allied Health

Master of Science in Allied Health

Department of Allied Health Sciences

Graduate School Contact:
Mary Duncan; duncanm@etsu.edu; 423-439-4302

Ester L. Verhovsek, Graduate Coordinator
143 Nave Center
Box 70573
(423) 547-0235
e-mail: verhovse@etsu.edu

Charles C. Faust, Department Chair
143 Nave Center
Box 70573
(423) 547-4905
e-mail: faust@etsu.edu

Faculty:
Randy L. Byington; Shirley J. Cherry; Deborah L. Dotson; Charles C. Faust; K. Shane Keene; Donald A. Samples; Constance R. Sharuga; Ester L. Verhovsek.

Purpose

The purpose of the Master of Science in Allied Health (MSAH) degree program is to prepare allied health professionals for positions in education and administration in their respective health care discipline. The goals of the Master of Science Degree in Allied Health program are as follows:

1. enable allied health practitioners to be sensitive to the health care environment in which they work in order to analyze, interpret, and respond to the major factors influencing health care;
2. prepare allied health practitioners to function in a professional manner as a member and representative of the health care team;
3. prepare allied health practitioners to have a basic understanding of administration/management skills as related to their discipline;
4. enable graduates to function as educators in the academic, clinical, and community settings;
5. prepare allied health practitioners to be critical thinkers able to analyze concepts, principles, research, and clinical findings, technologies, and outcomes and apply them to the professional practice as appropriate;
6. provide a quality education in the allied health sciences for the preparation of health professionals for advanced positions or leadership roles.

Program Admission Requirements

Students who apply to the Master of Science in Allied Health must meet all of the requirements of the master's degree as established by the School of Graduate Studies at East Tennessee State University. They must also meet the following program specific requirements:

a. Attain a bachelor's degree from a regionally accredited institution (Southern Association of Colleges and Schools or equivalent.)

b. Hold a professional license in an allied health discipline.

c. Have a cumulative grade point average of 2.75 or higher on a 4.0 scale or complete the GRE exam with a minimum of 2,400 points based on the following formula; sum of the GRE aptitude score (V+Q+AW) and the GPA x 500.

d. Completed GRE exam.

e. Three professional letters of recommendation.

Admission is based on the GPA, GRE scores, quality of reference letters, strength of background, and available space in the program. The department
can grant conditional admission to candidates not meeting all of the minimum requirements. All applicants must submit an official transcript, GRE scores, and letters of reference before their application will be reviewed.

### Curriculum

The program of study in the Master of Science in Allied Health consists of 18 hours of major field core, 12 hours of guided electives, and a 6-hour thesis or non-thesis capstone project. The student will work with their advisor to select courses from the guided electives that meet their professional needs and career aspirations. Students have the option of guided electives in allied health administration and education, and public health.

#### Allied Health Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALHE 5000 Information Technology in Allied Health Sciences</td>
<td>1</td>
</tr>
<tr>
<td>ALHE 5100 Interdisciplinary Health Care Teams</td>
<td>2</td>
</tr>
<tr>
<td>ALHE 5200 Assessment, Planning, and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>ALHE 5050 Legal &amp; Ethical Issues in Allied Health</td>
<td>3</td>
</tr>
<tr>
<td>ALHE 5070 Leadership Theory for Health Care Delivery</td>
<td>3</td>
</tr>
<tr>
<td>ALHE 5150 Population Health Issues for the Allied Health Professional</td>
<td>3</td>
</tr>
<tr>
<td>ALHE 5500 Methods of Research in Allied Health</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours: 18**

#### Guided Electives

(Choose four)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALHE 5010 Clinical Teaching Strategies</td>
<td>3</td>
</tr>
<tr>
<td>ALHE 5060 Allied Health Curriculum Design</td>
<td>3</td>
</tr>
<tr>
<td>ALHE 5300 Administration at the Department Level</td>
<td>3</td>
</tr>
<tr>
<td>ALHE 5700 Financial &amp; Strategic Planning for ALHE Prof</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5310 Biostatistics I</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5400 Epidemiology I</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5550 Human Resources Mgmt. in Health Org</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5900 Grant and Proposal Development</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Elective Credits: 12**

#### Thesis or Non-Thesis Option

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALHE 5800 Advanced Practice Seminar in ALHE</td>
<td>3-6</td>
</tr>
<tr>
<td>ALHE 5960 Thesis</td>
<td>3-6</td>
</tr>
</tbody>
</table>

**Total hours: 6**

**Total for Master's Degree: 36**

The advanced practice seminar option is designed as a culminating clinical experience to provide an alternative to the thesis option. Students will be required to present an advance practice plan and identify a clinical preceptor to their graduate committee prior to beginning their project. Advanced practice seminars include a minimum of 120 clock hours of clinical practice per three hour course in the approved area. Upon completion of the experience, the student will be required to provide a written evaluation on the project. Additionally, the student will be required to perform an oral defense of the findings to their committee.

The thesis option constitutes a significant part of the work toward a master's degree. The thesis represent a high standard of scholarly inquiry, methodology, techniques, statistics, and literature review. Candidates for degrees are required to present findings to their graduate committee in the form of an oral defense. Students must meet additional thesis requirements as stated in the ETSU Graduate Catalog.

### Retention Standards

Students in the Master of Science Degree in Allied Health program must meet the retention standards as set forth for graduate students by the School of Graduate Studies. Grades shall be based on the 4.0 scale as set forth in the Graduate Catalog. A student will be considered deficient for any course grade less than a “C” (2.0), or when their overall grade average is less than a “B” (3.0) in the program of study. This grade in the program of study can be applied toward the degree. Students with an overall grade average of less than a “B” (3.0) will be placed on probation for one semester. If their overall grade average does not improve to a “B” (3.0) the following semester, the student will be dismissed from the program. Students must have a cumulative grade point of 3.0 or better in order to register for thesis or advance practice seminar credit.

### Graduation Requirements

Students accepted into the Master of Science Degree in Allied Health may select between the thesis and non-thesis option. All students must successfully complete 18 credit hours of allied health core and 12 credit hours in the selected electives. Upon completion of the required coursework, a comprehensive evaluation of the student's performance will be administered in the form of a written examination to determine the level of mastery of their discipline.

Successful completion of a comprehensive examination is necessary prior to enrolling in thesis or advance practice courses. A culminating experience is required of all candidates in the form of 6 credit hours of ALHE 5800 Advance Practice Seminar or ALHE 5960 Thesis. All course work and other requirements for the Master of Science degree in Allied Health must be completed within 6 years from the date of initial enrollment. Students are required to meet additional graduation requirements as stated in the ETSU Graduate Catalog.

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### Art and Design

#### Master of Arts: Art History and Studio Art

Graduate School Contact: Gail Powers; powers@etsu.edu; 423-439-4703

**Patricia Mink, Graduate Coordinator**

- 407 Ball Hall
- Box 70708
- (423) 439-5739
- e-mail: mink@etsu.edu

**Catherine Murray, Department Chair**

- 121 Ball Hall
- Box 70708
- (423) 439-4247
- e-mail: murrayc@etsu.edu

**Department Mission:**

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

ETSU’s Department of Art and Design is an accredited institutional member of National Association of Schools of Art and Design. Additionally, the department holds membership in the College Art Association, the Southeastern College Art Conference, and other professional art organizations.

The Department of Art and Design, within the framework of the College of Arts and Sciences, has the responsibility to provide educational opportunities of high quality in the professional art disciplines.

The department offers the Master of Fine Arts (M.F.A.) in studio art and the Master of Arts (M.A.) in art history or in studio art.

The M.F.A. is a professional degree in studio art with specializations available in the following areas: ceramics, drawing, fibers, graphic design, jewelry/metalsmithing, painting, photography, printmaking, and sculpture. The program leading to the degree of M.F.A. has as its goal excellence in the creative production of visual art. The M.F.A. is considered the terminal degree for college or university studio teaching and/or professional work in the field. Each student's program is developed in consultation with his or her area advisor.

The M.A. degree in Studio Art provides students with advanced training in art for purposes or personal enrichment, for entry into an M.F.A. program, or for art teachers wanting to increase their education. Specializations are
available in the following areas: ceramics, drawing, fibers, graphic design, jewelry/metalsmithing, painting, photography, printmaking, and sculpture.

The M.A. degree in Art History provides the student with breadth and thoroughness in the study of Art History. It is intended as preparation for additional graduate study in pursuit of a Doctor of Philosophy degree or as the foundation for careers in related areas.

Program Admission Requirements
Application deadline for fall semester: February 15.

All application materials must be sent to the ETSU School of Graduate Studies, Box 70720, Johnson City, TN 37614.

All candidates for the graduate program are strongly encouraged to arrange a personal interview with the faculty member from the area of the student's interest of study.

To be admitted to the program, the applicant must have:
1. An undergraduate minimum average of 3.0 in art on a 4.0 scale.
2. Deficiencies may require make-up work without graduate credit.
3. Demonstration of a capacity to pursue graduate work in the department.

Master of Arts – The prospective M.A. candidates must hold a bachelor's degree with an emphasis in Art

Art History – The applicant for the M.A. concentration in Art History must take the Graduate Record Exam and have a reading knowledge of one foreign language (French, German, Italian, or another appropriate for the student's proposed area of study). A cover letter stating area of emphasis, current C.V., and 3 letters of recommendation, preferably from former professors and/or other individuals conversant in art history, must also be included with the application.

Art – The applicant for the M.A. concentration in Studio Art must submit 15 digital images and the additional materials as listed below for the M.F.A. candidate.

Master of Fine Arts – The prospective candidate for the M.F.A. degree must have a bachelor's degree with a major in art or equivalent evidence of proficiency. All candidates for the graduate program are strongly encouraged to arrange a personal interview with the faculty member from the area of the student's interest of study. These include: painting, drawing, sculpture, printmaking, graphic design, photography, ceramics, fibers, jewelry/metalsmithing, or interdisciplinary.

In addition to the materials required by the School of Graduate Studies, the student should submit the following application materials to the School of Graduate Studies:
- A cover letter to the Graduate Selection Committee with the studio area of emphasis clearly identified.
- Current C.V.—Indicate exhibitions, prizes, work experience, student activities or honors, or other activities.
- Three (3) current letters of recommendation—preferably from former art professors and/or other individuals conversant in the visual arts.
- Artist’s Statement – no more than 200 words – indicating the focus of the images presented.
- 20 professional quality jpeg images on disc which is labeled with the applicant's name. Work should be submitted following a sequence of older to newer work. This portfolio is the primary means of evaluating the potential graduate student in the studio areas.
- Identification Sheet for images indicating title, media, size, and date.
- Materials will not be returned; do not submit original art work.

Review for Admission to Candidacy
Students are not candidates for a degree until they have passed a review process. Review for admission to candidacy will take place after the student has completed a minimum of 12-15 credit-hours in residence.

Admission to candidacy for the degree is based on the recommendation of the prospective candidate’s graduate committee. The committee is composed of three faculty members. The committee will review the student's work, grades, and progress and make one of the following recommendations:
1. Student accepted for candidacy (no restrictions).
2. Student not accepted (option to reapply only twice at nine (9) semester hour intervals).
3. Student not accepted (no option to reapply).

Minimum Degree Requirements
The student's faculty advisor will determine requirements other than those specified below after reviewing the undergraduate record and consulting with the student. To remain in good standing, a graduate student must maintain a minimum grade point average of 3.0 (B) overall.

Master of Arts, Art History – A minimum of 30 semester credits is required, apportioned as follows: 24 graduate credit-hours in Art History, 3 credit-hours in Art 5950 (Methods of Research), 3 credit-hours in Art 5960 (Thesis). All candidates must defend their written thesis in a final oral examination.

Master of Arts, Studio – A minimum of 30 semester credits is required, apportioned as follows: 15 credit-hours in a major area, 3 credit-hours in art history, 6 credit-hours of advisor-recommended studio electives, 3 credit-hours in Art 5950 (Methods of Research), 3 credit-hours in Art 5960 (Thesis).

Studio candidates must mount a thesis exhibition of acceptable professional quality; a supporting thesis paper must be written in conjunction with the thesis exhibition. All candidates must defend their work, visual and written, in a final oral examination.

Master of Fine Arts, Studio – The M.F.A. program requires at least one academic year in continuous residence. A minimum of 60 credit-hours is required, apportioned as follows: 42 credit-hours in graduate studio classes, 30 of these must be in area of emphasis; 9 graduate credit-hours in art history; 3 credit-hours in graduate elective classes; 3 credit-hours in Art 5950 (Methods of Research); 3 credit-hours in Art 5960 (Thesis).

A project proposal or statement of intent shall be submitted to the candidate's committee for approval at least one semester prior to beginning work on the creative thesis. The M.F.A. creative thesis includes: the presentation of an exhibition of original creative work and a supporting thesis paper. All candidates must defend their work, visual and written, in a final oral examination. All M.F.A. candidates are required to provide the Department of Art and Design with a disc of images of the work in their graduate exhibit before graduation.

Audiology

Doctor of Audiology

Department of Audiology and Speech-Language Pathology

Graduate School Contact:
Shella Bennett; bennetsg@etsu.edu; 423-439-4708
Brenda Louw, Ph.D., Chair, Department of Audiology and Speech-Language Pathology
253 Lamb Hall
Box 70643
e-mail: louwb1@etsu.edu
(423) 439-4315

Patricia Chase, Ph.D., Graduate Coordinator
267 Lamb Hall
Box 70643
e-mail: chase@etsu.edu
(423) 439-5252

The primary goal of the Doctor of Audiology (Au.D.) degree program at ETSU is to provide clinical instruction and coursework that will prepare students to practice audiology with varied and diverse populations and individuals. To that end, the program will prepare students for roles as audiologists and clinic directors by providing advanced practical experiences in a variety of settings and by directing students to appropriate clinical training sites. The program is intended to prepare students as audiologists able to uphold the ASHA Code of Ethics and provide the standard of care in a variety of diagnostic and rehabilitative areas. Although the Au.D. is a clinical doctorate, it will provide students with the analytical and substantive knowledge they will need to assess and improve the effectiveness of practice, and the utilization of research. Two tracks are available for admission into and matriculation through the Au.D. program. Students who apply to the program while holding the bachelor's degree take the Traditional Entry track. Students who apply to the program while holding a master's degree in Audiology may take the Advanced Standing track.
Program Admission Requirements
Applicants seeking admission to the Au.D. degree program must fulfill all the requirements for admission to both the School of Graduate Studies and the Department of Audiology and Speech-Language Pathology. The School of Graduate Studies requires that all students submit the following materials: a completed application form including payment of a nonrefundable application fee; official transcripts of all previous undergraduate and graduate work; and a written essay.

Traditional Entry Track—In addition to requirements of the School of Graduate Studies, the Department of Audiology and Speech-Language Pathology requirements for admission to the Traditional Entry Track include:
1. Cumulative GPA of 3.25 (on a 4.0 scale) for the last two years of undergraduate study.
2. Submission of quantitative, qualitative, and analytical writing GRE scores.
3. At least eight credit-hours in the lab sciences (chemistry, biology, or physics).
4. At least six credit-hours in college-level mathematics of which at least 3 credit-hours must be in the study of statistics.
5. At least 6 credit-hours in the behavioral and/or social sciences such as normal, abnormal, developmental, and/or experimental psychology, sociology, or anthropology.
6. Completion of an interview.
7. Three (3) letters of recommendation.

Advanced Standing Track—In addition to requirements of the School of Graduate Studies, the Department of Audiology and Speech-Language Pathology requirements for admission to the Traditional Entry Track include:
1. Cumulative GPA of 3.25 (on a 4.0 scale) in graduate-level audiology courses. Students will be required to repeat a course in any audiology foundation area in which they received a C as a graduate or undergraduate;
2. Completion of an interview;
3. Three (3) letters of recommendation from peers and/or employers that address the clinical activities performed by the applicant.
4. Successful completion of a master’s degree in Communication Sciences and Disorders in a program accredited by ASHA and CAA. Applicants must provide evidence of audiology-related employment and continuing education since matriculation, including statements pertaining to scope of practice, areas of expertise, and perceived areas of weakness.
5. Applicants must meet the certification standards as specified by ASHA and must be current holders of the CCC-A.
6. Applications to the Advanced Standing Track will be screened for the following criteria:
   • Quality of scholarship at the graduate level
   • Quality of coursework completed at the graduate level
   • Amount and variety of clinical experience since acquiring the M.S. degree
   • Professional activity other than clinical work (i.e., publications, research assistantships, affiliations with state and national organizations, professional activities, presentations, and publications).

Applications cannot be evaluated until they are completed. The evaluation process considers elements from the admission requirements, relevant professional experience, and the applicant's ability, during the required interview, to discuss goals and expectations related to doctoral study of audiology. Interview times will be scheduled by the Department of Audiology and Speech-Language Pathology. The department may admit a promising applicant who has not met all the admission requirements on a conditional basis. All admission requirements related to clinical practicum and progression standards are consistent with those of the department.

Degree Requirements
Students in the Au.D. program must complete a minimum of 120 credit-hours (75 credits of coursework, 45 credits of clinic practicum) and meet the academic and practicum requirements for the Certificate of Clinical Competence of the American Speech-Language-Hearing Association.

Coursework Requirements—Each Au.D. candidate must complete the required 75-credit-hour program of study. Any elective coursework completed by a student will be in addition to the 75-hour minimum. The fourth year of study consists of a clinic externship. Competency across the scope of didactic courses and clinical practice will be assessed throughout the program of study. Consistent with ASHA knowledge and skills acquisition requirements, students will display competence in all areas of audiological practice prior to graduation.

Clinical Requirements—In addition to the department's requirements for enrollment in and progression through clinical practicum, each degree candidate must complete a minimum of 45 credit-hours of clinic practicum including a fourth-year, full-time externship. The students must have clinical experience at three or more distinct clinic sites. Students will complete more than 2,000 hours of clinic activity including the fourth-year externship. The department's guidelines regarding progression through the clinic pertain to the Au.D. degree with the exception of #4, the sequence of clinical competency levels. Au.D. students and supervisors document clinical competence goals and track student progression as goals are exceeded, met, or not met. No levels of progression are completed; rather levels of competence are assessed across the clinical activities that comprise audiological practice.

Comprehensive and Qualifying Examinations—Written comprehensive examinations are required after the first year of coursework to facilitate formative assessment of the student. Results may indicate the need to review or modify a student’s program of study. A set of written qualifying examinations is required after the second year of study in which the student should demonstrate the breadth of knowledge (provided by the foundation courses) required for continued doctoral study in audiology. Students who fail any portion of the qualifying examination will complete an oral examination addressing that material related to the failing grade. Students who fail any portion of the oral examination will retake the relevant coursework and modify their programs of study appropriately. At the end of the third year of coursework, students will complete an oral comprehensive examination designed to assess integration of course material and decision-making skills specifically related to clinical practice. The student cannot progress to the fourth-year externship without first passing the qualifying examination and the oral comprehensive examination sequence.

Research Project—All Au.D. students are required to complete and present an original research project. See the Au.D. Handbook (http://www.etsu.edu/ehs/commndis/documents/AudiologyGradHandbook.doc) for details regarding this requirement.

Time Limit—The time limit for completion of the Au.D. degree program by a student is six years from the date of enrollment in the earliest course applied toward the degree.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDIS 6010</td>
<td>Neuro. Bases of Communication &amp; Cognition</td>
<td>3</td>
</tr>
<tr>
<td>CDIS 6100</td>
<td>Instrumentation &amp; Acoustical Measurement</td>
<td>3</td>
</tr>
<tr>
<td>CDIS 6110</td>
<td>Anatomy, Embryology, Physiology</td>
<td>3</td>
</tr>
<tr>
<td>CDIS 6115</td>
<td>Audiologic Evaluation I</td>
<td>3</td>
</tr>
<tr>
<td>CDIS 6140</td>
<td>Amplification Systems I</td>
<td>3</td>
</tr>
<tr>
<td>CDIS 6141</td>
<td>Amplification Systems II</td>
<td>3</td>
</tr>
<tr>
<td>CDIS 6142</td>
<td>Amplification Systems III</td>
<td>3</td>
</tr>
<tr>
<td>CDIS 6145</td>
<td>Pathologies of Auditory System</td>
<td>3</td>
</tr>
<tr>
<td>CDIS 6150</td>
<td>Psychoacoustics and Hearing Science</td>
<td>3</td>
</tr>
<tr>
<td>CDIS 6160</td>
<td>Audiologic Evaluation II</td>
<td>3</td>
</tr>
<tr>
<td>CDIS 6180</td>
<td>Pediatric Audiology</td>
<td>3</td>
</tr>
<tr>
<td>CDIS 6195</td>
<td>Electrophysiology</td>
<td>3</td>
</tr>
<tr>
<td>CDIS 6196</td>
<td>Electroencephalography</td>
<td>3</td>
</tr>
<tr>
<td>CDIS 6295</td>
<td>Counseling in Communicative Disorders</td>
<td>3</td>
</tr>
<tr>
<td>CDIS 6300</td>
<td>Rehab. Audiology for Children</td>
<td>3</td>
</tr>
<tr>
<td>CDIS 6310</td>
<td>Rehabilitative Audiology for Adults</td>
<td>3</td>
</tr>
<tr>
<td>CDIS 6330</td>
<td>Auditory Measures of Speech Perception</td>
<td>3</td>
</tr>
<tr>
<td>CDIS 6340</td>
<td>Audiology Clinic Practice Mgmt.</td>
<td>3</td>
</tr>
<tr>
<td>CDIS 6355</td>
<td>Tinnitus Management</td>
<td>3</td>
</tr>
<tr>
<td>CDIS 6360</td>
<td>Vestibular Assessment</td>
<td>3</td>
</tr>
<tr>
<td>CDIS 6361</td>
<td>Adv. Vestibular Assess. &amp; Rehab.</td>
<td>3</td>
</tr>
<tr>
<td>CDIS 6370</td>
<td>Hearing Conservation</td>
<td>3</td>
</tr>
<tr>
<td>CDIS 6390</td>
<td>Audiology in the Medical &amp; Deaf Communities</td>
<td>3</td>
</tr>
<tr>
<td>CDIS 6400</td>
<td>Research Methods for CDIS</td>
<td>3</td>
</tr>
<tr>
<td>CDIS 6410</td>
<td>Audiology Seminar</td>
<td>3</td>
</tr>
<tr>
<td>CDIS 6520</td>
<td>Audiology Clinic (repeatable)</td>
<td>3</td>
</tr>
<tr>
<td>CDIS 6590</td>
<td>Externship: Audiology (repeatable)</td>
<td>6-9</td>
</tr>
</tbody>
</table>

Total Didactic Hours: 120

Total Clinical Practicum Hours: 45
Some students may require Speech-Language Pathology coursework to support applications for licensure. In such cases, students may take electives with advisor approval.

**Total Hours Required (minimum) .................................. 120**

### Biomedical Sciences

#### Doctor of Philosophy—Concentrations in Anatomy, Biochemistry, Microbiology, Pharmacology, and Physiology

**Graduate School Contact:**
Sheila Bennett; bennetss@etsu.edu; 423-439-4708

Mitchell Robinson, Ph.D., Associate Dean for Graduate Studies and Program Director
B040 Stanton-Gerber Hall
Box 70407
(423) 439-2028
e-mail: robinson@etsu.edu

Beverly Sherwood, Admissions Coordinator
B040 Stanton-Gerber Hall
Box 70407
(423) 439-2031
e-mail: sherwood@etsu.edu

**Biomedical Science Graduate Committee**—The committee makes recommendations concerning the academic program, curriculum, recruitment, student advisement, and financial assistance and serves as the admissions committee for the Ph.D. program.

<table>
<thead>
<tr>
<th>Member</th>
<th>Department</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Mitchell Robinson</td>
<td>Chair, Asst. Dean</td>
<td>(423) 439-2010</td>
</tr>
<tr>
<td>Dr. Dennis Defoe</td>
<td>Anat. &amp; Cell Biology</td>
<td>(423) 439-2009</td>
</tr>
<tr>
<td>Dr. David Johnson</td>
<td>Bio. &amp; Molec. Biology</td>
<td>(423) 439-2027</td>
</tr>
<tr>
<td>Dr. Robert V. Schoborg</td>
<td>Microbiology</td>
<td>(423) 439-6295</td>
</tr>
<tr>
<td>Dr. Alok Agrawal</td>
<td>Pharmacology</td>
<td>(423) 439-6336</td>
</tr>
<tr>
<td>Dr. Tom Ecay</td>
<td>Physiology</td>
<td>(423) 439-2046</td>
</tr>
<tr>
<td>Dr. David Chi</td>
<td>Clinical Departments</td>
<td>(423) 439-6382</td>
</tr>
</tbody>
</table>

The Biomedical Science Program of the James H. Quillen College of Medicine offers courses of study leading to the Doctor of Philosophy in Biomedical Science with concentrations in five basic science disciplines: anatomy and cell biology, biochemistry and molecular biology, microbiology, pharmacology and physiology. The program is designed to prepare students for professional careers in research in the life sciences. Graduates find career opportunities in a variety of settings including universities, health science centers, health care industry, pharmaceutical and biotechnology companies.

#### Doctor of Philosophy Degree Requirements

A unique feature of the Ph.D. program is its multidisciplinary character, giving students a broad choice of faculty and laboratories for their research training. Students are admitted centrally rather than to departmental graduate programs and need not select an area of concentration until the end of the first year of study. An interdisciplinary core curriculum covers the basic knowledge and skills necessary for research in all areas of the biomedical sciences. Students become familiar with the laboratory environment of different faculty through a flexible program of laboratory rotations. After choosing a research advisor, students receive individualized research training. There are currently over 60 faculty, from five basic science and seven clinical departments, participating in the graduate program.

**Admission Requirements**—All applications for admission to the Ph.D. program will be reviewed by the Admissions Committee of the Biomedical Science Program. Admission decisions are made on the basis of an overall evaluation of the applicant's ability to complete advanced study in Biomedical Science. Particular attention is paid to the applicant's cumulative GPA, performance in physical science and natural sciences courses, scores for the Graduate Record Examination and letters of recommendation. A personal interview may be required.

**Program of Study**—The course of study leading to the Ph.D. degree in biomedical sciences will be designed in accord with the student's prior training, the student's stated interests and goals, and the specific background required for demonstration of competence in an area of biomedical science. A minimum of 60 credit-hours are required beyond the baccalaureate degree. For admission to candidacy, at least 30 of the minimum 60 credit-hours must be earned in courses at the 6000 and 7000 level. More than the minimum hours may be needed for completion of the degree program.

**Note of Course Starting Dates**—Some graduate courses in biomedical science are taught in conjunction with the James H. Quillen College of Medicine, and course starting dates coincide with those of the College of Medicine, usually at least two weeks prior to other graduate courses.

Non-degree students—Non-degree students may register for graduate courses in the biomedical science program with permission of the course director and assistant dean for graduate studies. Graduate courses that are taught in conjunction with the James H. Quillen College of Medicine are not open to non-degree students. Any exception must be approved by the dean of the College of Medicine.

**Course Requirements**—The core curriculum is designed to provide a broad multidisciplinary background for all students in the Biomedical Science graduate program.

<table>
<thead>
<tr>
<th>Concentration</th>
<th>BIOM 6010 Biomedical Science I - Molecular Organization of Cells ..........</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BIOM 6020 Biomedical Science II - Gene Expression and Regulation ..........</td>
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<tr>
<td></td>
<td>BIOM 6030 Biomedical Science III - Cellular Anatomy and Physiology ........</td>
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<tr>
<td></td>
<td>BIOM 6040 Biomedical Science IV - Cell and Organ Interactions ............</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BIOM 6210 Scientific Communication I .........................................</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>BIOM 6220 Scientific Communication II .........................................</td>
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<tr>
<td></td>
<td>BIOM 6110 Introduction to Biomedical Research ................................</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>BIOM 6120 Laboratory Rotations ..................................................</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MDED 6010 Biometry and Biomedical Computing I ....................................</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BIOM 6300 Scientific Ethics ................................................................</td>
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<td></td>
<td><strong>Total Core Hours</strong> ..........................................................................</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td><strong>Dissertation Research</strong> ...................................................................</td>
<td>15 - 21</td>
</tr>
<tr>
<td>Total Hours for Ph.D. (minimum) ....................................................</td>
<td>60</td>
<td></td>
</tr>
</tbody>
</table>

**Advisory Committee**—An academic advisor will be appointed at the time of admission by the assistant dean for graduate studies and will assist the student in planning the program of study through the first year. Each student will select a research advisor following completion of the laboratory rotation program. The research advisor will assume primary responsibility for the student's academic and research progress. Prior to the beginning of the second year of study, students will form a graduate advisory committee. The committee will consist of at least five members of the graduate faculty, with no more than three members from one department. The student's research advisor will serve as chair of the committee and must hold full or associate graduate faculty status. Other members of the committee will be selected by the student and research advisor and will be approved by the departmental chair and assistant dean for graduate studies. The committee will be responsible for overseeing the student's overall academic program, including the program of study, preliminary examination, advancement to candidacy and preparation and defense of the dissertation. The advisory committee should meet formally with the student at least once each year to review the research and academic progress.

---

**Note of Course Starting Dates**—Some graduate courses in biomedical science are taught in conjunction with the James H. Quillen College of Medicine, and course starting dates coincide with those of the College of Medicine, usually at least two weeks prior to other graduate courses.

#### Doctor of Philosophy Degree Requirements

A unique feature of the Ph.D. program is its multidisciplinary character, giving students a broad choice of faculty and laboratories for their research training. Students are admitted centrally rather than to departmental graduate programs and need not select an area of concentration until the end of the first year of study. An interdisciplinary core curriculum covers the basic knowledge and skills necessary for research in all areas of the biomedical sciences. Students become familiar with the laboratory environment of different faculty through a flexible program of laboratory rotations. After choosing a research advisor, students receive individualized research training. There are currently over 60 faculty, from five basic science and seven clinical departments, participating in the graduate program.

**Admission Requirements**—All applications for admission to the Ph.D. program will be reviewed by the Admissions Committee of the Biomedical Science Program. Admission decisions are made on the basis of an overall evaluation of the applicant's ability to complete advanced study in Biomedical Science. Particular attention is paid to the applicant's cumulative GPA, performance in physical science and natural sciences courses, scores for the Graduate Record Examination and letters of recommendation. A personal interview may be required.

**Program of Study**—The course of study leading to the Ph.D. degree in biomedical sciences will be designed in accord with the student's prior training, the student's stated interests and goals, and the specific background required for demonstration of competence in an area of biomedical science. A minimum of 60 credit-hours are required beyond the baccalaureate degree. For admission to candidacy, at least 30 of the minimum 60 credit-hours must be earned in courses at the 6000 and 7000 level. More than the minimum hours may be needed for completion of the degree program.

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Non-degree students—Non-degree students may register for graduate courses in the biomedical science program with permission of the course director and assistant dean for graduate studies. Graduate courses that are taught in conjunction with the James H. Quillen College of Medicine are not open to non-degree students. Any exception must be approved by the dean of the College of Medicine.

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The Preliminary Examination—A preliminary examination may be administered at the discretion of the advisory committee after one semester of enrollment. The examination will be designed to evaluate the student’s potential to complete a total planned program and to aid in planning the program of study.

Change in Program of Study—Changes in the planned program of study for candidacy must be approved by the dean of the School of Graduate Studies. Forms for program changes are available in the School of Graduate Studies office.

Residence Requirements—A period of one academic year (two continuous semesters) will be required in keeping with the needs of the program and with accreditation standards. A student may be assigned to study at an off-campus site for special programs. This study must be approved in advance by the student’s graduate advisory committee to be applied toward residency requirements. No more than nine credit-hours of credit may be earned in special programs.

Time Limits—Credit received more than seven years prior to the awarding of the degree will not be accepted as part of the degree requirements.

Qualifying Examination—The qualifying examination will be administered by the advisory committee after the first year and before the end of the second year of continuous enrollment. Successful completion of the examination should demonstrate that the student has obtained a breadth of knowledge in biomedical science, utilizing the information obtained in the core curriculum. The student should also demonstrate competence in researching the literature and organizing and presenting information on a topic of current importance. The format of the written examination will be a research proposal similar in style to a research grant application. The topic will be selected by the student and approved in advance by the committee. The topic should be original and not identical to the intended research. An oral examination, in which the student defends the written research, follows successful completion of the written requirement.

The Final Examination—The final examination will be oral and will be devoted to an evaluation and defense of the student’s dissertation. A student must be a formally admitted candidate for the doctorate for one full semester before being eligible to take the final examination. Students will not be allowed to complete a program during the same semester in which they are formally admitted to doctoral candidacy. The examination for defense of the dissertation will not be scheduled until the student’s dissertation is accepted by the graduate advisory committee. However, this approval and the final oral examination must both take place by the deadline in the university calendar. Each doctoral student’s final oral examination will be publicly announced by the School of Graduate Studies. It will be an open examination, and all interested persons will be encouraged to attend.

Graduate Faculty Representation at Dissertation Defenses—The defense of the dissertation is a formal gathering at which the doctoral candidate presents and defends her or his research to members of the university community. The defense is a capstone event in the development of graduate students as scholars, professionals, or future teachers and must entail open and fair exchange of scholarly views. A member of the graduate faculty from outside the candidate’s committee and department must be present at the defense to monitor the process. The procedure to be followed in scheduling an oral defense and the format for the graduate faculty representative’s narrative report are available in the Graduate Studies office.

Dissertation—All doctoral candidates must complete a dissertation as a major requirement for the Ph.D. degree. The dissertation topic will be selected by the candidate with the advice and approval of the graduate advisory committee. The student must present a prospectus describing the research project for review and approval by the graduate advisory committee. After the dissertation topic has been researched, written, and accepted by the committee, it must be prepared in the proper form and submitted to the School of Graduate Studies for approval at least one week prior to graduation. The School of Graduate Studies has been accepting dissertations in both electronic and paper formats. ETSU has approved a requirement for electronic submission, which will begin when the pilot submission program is completed. Students must submit dissertations in the format prescribed at the time of submission. Students seeking exemption from electronic submission of the dissertation must be prepared to follow an alternate submission schedule and will be responsible for binding fees and microfilming costs. The School of Graduate Studies publishes a Guide to the Preparation of Theses and Dissertations, which is available in the Graduate Studies Office along with specific guidelines for submission and review of the manuscript.

Institutional Review Board—Student research involving human subjects must be approved by the East Tennessee State University Institutional Review Board prior to initiation of the research. This is necessary to protect the rights of human subjects involved in physical, psychological, or social research. Following approval of the proposed research by the review board, the subject involved must be informed of the study and consent to participate. The application forms for research involving human subjects and review of such research projects are available in the Office of Research and Sponsored Programs, 1110 Seminole Drive.

Evaluation—The evaluation of an advanced graduate student is a function of the instructors and the student’s graduate advisory committee. The latter has full authority for program planning and the evaluation of oral and written preliminary and qualifying examinations, provided that all university and departmental requirements have been met.

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### Biology

**Concentrations in Biology, Microbiology, and Paleontology**

**Biology Concentration**

Graduate School Contact:

Gail Powers; powers@etsu.edu; 423-439-4703

Michael S. Zavada, Ph.D., Graduate Coordinator

125 Brown Hall

Box 70703

(423) 439-6919

e-mail: zavadam@etsu.edu

Faculty:

Zulfigar Ahmad; Fred Alsop; Ranjan Chakraborty; Allan Forsman; T. J. Jones; Karl Joplin; Istvan Karsai; Dhirenendra Kumar; Tom Laughlin; Foster Levy; Yusheng (Chris) Liu; Timothy McDowell; Cecilia McIntosh; Hugh Miller; Darrell Moore; Rebecca Pyles; Leonard Robertson; Blaine Schubert; James Stewart; Lev Yampolsky; Michael Zavada.

**Microbiology Concentration**

Bert Lampson, Ph.D., Graduate Coordinator

249 Lamb Hall

Box 70673

(423) 439-4572

e-mail: lampson@etsu.edu

Faculty:

Ranjan Chakraborty; Allan Forsman; Michael Gallagher; Bert Lampson; Foster Levy; Eric Mustain; Laraine Powers; Edward Onyango; Effiong Otukonyong.

The Master of Science degree program in Biology is designed to provide a broad-based education while developing research skills. Areas of particular interest to the faculty include Anatomy, Biochemistry, Cell Biology, Conservation Biology, Developmental Biology, Ecology, Genetics, Immunology, Microbiology, Paleontology, Physiology, and Systematics. Students successfully completing the M.S. program are encouraged to seek doctoral degrees. The program has financial support available in the form of Graduate Assistantships and Tuition Scholarships. Decisions on offers of support are initiated at the end of March for the following academic year. In order to receive full consideration, applicants are encouraged to submit all materials by February 1 although support is sometimes available for students who apply after that date.
Program Admission Requirements
Students applying for admission to graduate study:
1. Must submit a general GRE score.
2. Must have a 3.0 overall grade point average (4.0 system) in mathematics and science courses.
3. Must have an undergraduate major in the life or physical sciences, with supporting courses in general chemistry, one year of organic chemistry (microbiology concentration will accept one semester of organic and one semester of biochemistry), and one year of physics.
4. A course in calculus and/or a course in probability and statistics is recommended.
5. Must have 2-3 letters of recommendation submitted on their behalf.

Core Course Requirements
The core requirements are as follows:
1. All students must take Bibliographic Research (5600) their first fall semester.
2. Biometry 5500 is required. Two semesters of Seminar (5700) are required. (All students are expected to attend departmental seminars regularly.)
3. Students will take at least two of the Topics courses (5100, 5200, 5300, 5400). Selection of the appropriate courses will be made in consultation with the student's advisory committee and/or the graduate coordinator.
4. BIOL 5960 Thesis is required. The student will choose a major professor by the end of the first semester. To facilitate this selection, during their first semester students will interview faculty members to determine their research interests and explore the potential for student participation in ongoing research programs. The major professor, in consultation with the student, recommends at least two additional members of the student's advisory committee. Persons from outside the program may also be added. The advisory committee will meet with the student to set up the plan of study based on the student's background and interests. The program must be approved by one of the program coordinators. The student's advisory committee will meet with the student a minimum of once per semester to assess progress, check the plan of study being followed, make suggestions and provide supervision as needed. The advisory committee's composition is not binding, and it may be changed upon written justification. It is the student's responsibility to maintain acceptable progress toward the completion of all degree requirements.
5. All students pursuing an M.S. in Biology are required to complete a thesis. A minimum of 30 semester credits are required for the degree. The thesis (writing) comprises three of the 30 credits. BIOL 5900 and/or 5910 may be taken for a total of nine (9) credit-hours.

Before admission to candidacy, the student must meet the minimum requirements of the Graduate School and the student's advisory committee. Before graduation the student must satisfactorily complete a written qualifying examination preferably near the end of the third semester. One re-evaluation is allowed. Failure to complete the evaluation satisfactorily will result in removal from the program. The evaluation will include emphasis on interrelationships, problem solving, and analysis. Final evaluation involves an oral presentation of the thesis and an oral examination in the area of specialization.

Paleontology Concentration
Blaine W. Schubert, Ph.D., Graduate Coordinator
200 Hutcheson Hall
Box 70636
(423) 439-7883
e-mail: schubert@etsu.edu

Faculty:
Jay Franklin; Yusheng (Chris) Liu; Jim Meade; Blaine Schubert; Steven Wallace; Michael Whitefau; Michael Zavada.

The Master of Science degree program in Paleontology is designed to prepare students for conducting research in one of the many realms of Paleontology with particular emphasis on Vertebrate Paleontology and Paleobotany. Students will fully exploit the paleontologic resources provided by the Gray Fossil Site, local caves, and other deposits. This concentration will provide an alternate track to Geology for the purpose of training in Paleontology and will foster interdisciplinary research between both faculty and students from East Tennessee State University and other institutions.

Core Course Requirements
BIOL 5907 Biological Research Methods ......................... 2
BIOL 5700 Seminar (Biology) ....................................... 1
BIOL 5X00 Topics in Biology ...................................... 3
(Students take one: 5100, 5200, 5300, or 5400.)
BIOL 5960 Thesis .................................................. 3
GEOL 5700 Seminar (Geology) ................................. 1
GEOL 5350 Statistical Methods in Paleontology ............ 3

Concentration Requirements
GEOL 5100 Lower Vertebrate Paleontology .................... 4
GEOL 5150 Higher Vertebrate Paleontology ................. 4
GEOL 5307 Field Methods in Paleontology .................. 3
BIOL 5480 Paleobotany .......................................... 3
Electives .................................................................. 3
(To be determined by student’s committee and/or committee chair, including BIOL 5910.)

Total Credits Required .............................................. 30

Business Administration
(Master of Business Administration)

Graduate School Contact:
Cindy Hill; hillcc@etsu.edu; 423-439-6590

Martha M. Pointer, Ph.D., Associate Dean, Graduate Coordinator
214 Sam Wilson Hall
Box 70699
(423) 439-5314 , FAX (423) 439-5274
e-mail: pointer@etsu.edu

Pete Cornett, M.B.A., Admissions Coordinator
206 Sam Wilson Hall
Box 70699
(423) 439-4622, FAX (423) 439-5374

Faculty:
Jafar Alavi; Edward Barya; Ting-Heng Chu; Andrew Czuchry; Douglas Dotterweich; Michael Everett; Frederick Hipple; Beichen Liang; Kurt Loess; Warren Mackara; Michael Marchioni; Michael McKinney; Phillip Miller; Loritane Mitchell; Thomas Moore; Robert Morgan; Martha Pointer; John Quigley; Joel Ryman; Gary Shelley; Donald Shemwell; Michael Small; Jon Smith; Allan Spritzer; Jean Stead; Walter Stead; Kerry Swinchot; Karen Tarnoff; Thomas Tull; Craig Turner; Ronald Weir; Mahmoud Yasin; Ugur Yavas.

The Master of Business Administration (M.B.A.) program offers men and women an opportunity to advance their knowledge and preparation for positions of responsibility in business or not-for-profit institutions. The M.B.A. program is fully accredited by AACSB International.

The M.B.A. degree is recognized as the key to success in both large and small organizations. It is suited to graduates in engineering, science, technology, health care, the liberal arts, and other non-business areas, as well as students with undergraduate degrees in business. The M.B.A. is a general, broad-based degree program that incorporates and integrates study of the organizational, financial, and operational management of organizations; the global economic, technological, and information environment; and the production and marketing of goods and services. Emphasis is given to the strategic view of the organization, teamwork, and effective problem solving.

Admission Requirements for the Traditional M.B.A.
A student applying to the traditional M.B.A. program must be eligible for admission to the university as a graduate student and must meet the admission criteria for the program. The student must submit completed application and scores on the Graduate Management Admissions Test (GMAT). Admission criteria include the applicant's undergraduate grade point average and satisfactory scores on the GMAT. The applicant is presumed to have computer literacy and an understanding of mathematics. Questions relating to admission requirements should be addressed to the Associate Dean for Graduate Studies in Business and Technology.
Admission Requirements for the Accelerated M.B.A.

The accelerated M.B.A. is designed for students who have at least three years of professional managerial experience and who desire a rapid-paced, alternative delivery of the M.B.A. courses. A student applying to the accelerated version of the M.B.A. program must be eligible for admission to the university as a graduate student. An applicant must have at least three years of professional managerial experience and the support of his or her supervisor. Admission criteria include the applicant's undergraduate grade point average, professional managerial experience as indicated on a current resume, three letters of recommendation, a letter of support from the applicant's supervisor, an interview, and an essay. Students admitted to other graduate programs in the university may enroll in selected graduate business courses if appropriate course prerequisites have been completed. Non-degree students, visiting students, and applicants awaiting admission to the M.B.A. program may not register for graduate business courses without prior approval of the Associate Dean for Graduate Studies in Business and Technology.

Course Requirements

M.B.A. Foundation Courses*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ACCT 5000</td>
<td>Essentials of Accounting</td>
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</tr>
<tr>
<td>ECON 5010</td>
<td>Essentials of Economics</td>
<td>3</td>
</tr>
<tr>
<td>FNCE 5000</td>
<td>Essentials of Finance</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 5010</td>
<td>Essentials of Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 5010</td>
<td>Essentials of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 5020</td>
<td>Legal &amp; Social Environment</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 5030</td>
<td>Quantitative Analysis for Operations Mgmt.</td>
<td>3</td>
</tr>
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Maximum ........................................................................ 24

Traditional M.B.A. Core Courses

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<tr>
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<tbody>
<tr>
<td>BADM 5140</td>
<td>Data Analysis and Modeling</td>
<td>3</td>
</tr>
<tr>
<td>BADM 5150</td>
<td>Accounting Information for Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>BADM 5180</td>
<td>Economics for Managers</td>
<td>3</td>
</tr>
<tr>
<td>BADM 5210</td>
<td>Operations and Technology Strategy</td>
<td>3</td>
</tr>
<tr>
<td>BADM 5220</td>
<td>Global Business</td>
<td>3</td>
</tr>
<tr>
<td>BADM 5230</td>
<td>Strategic Leadership</td>
<td>3</td>
</tr>
<tr>
<td>BADM 5400</td>
<td>Market Strategy</td>
<td>3</td>
</tr>
<tr>
<td>BADM 5430</td>
<td>Applied Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>BADM 5500</td>
<td>Strategic Management Process</td>
<td>3</td>
</tr>
<tr>
<td>Electives and Capstone Electives**</td>
<td>6</td>
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</tr>
<tr>
<td>BADM 5800</td>
<td>Strategic Experience</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours .................................................................. 36

* For those students with recent formal academic preparation in business administration, one or more foundation courses may be waived by the Director of Graduate Studies in Business.

** All electives must be at the graduate level and must be approved by the Director of Graduate Studies in Business prior to registration. The six credits of electives will be selected to meet students' special interests and needs and may include non-business courses. Foundation courses may not be taken for elective graduate credit, and no more than one elective may be taken from courses co-listed with undergraduate courses.

*** This course fulfills the Capstone Experience requirement in the M.B.A. program.

Entering traditional M.B.A. students attend a one-day retreat at which they explore teamwork techniques and develop a shared vision of the program for presentation to faculty and program administrators.

M.B.A. students, with the approval by the Associate Dean for Graduate Studies in Business and Technology, may declare an emphasis in their program. Possible areas of emphasis include but are not limited to accountancy, finance, health care management, environmental management, marketing, public administration, and technology. Interested students should submit a proposal describing their desired emphasis no later than the semester in which they complete 21 semester credits of M.B.A. core coursework.

The length of the traditional M.B.A. program will depend upon a student's prior academic work and the number of courses to be taken per semester. The well-prepared full-time student can complete the program in four semesters. Part-time traditional M.B.A. students can complete the program through evening classes at the ETSU main campus. Students can take selected courses at ETSU at Kingsport or, via the instructional television system, at sites throughout Northeast Tennessee.

Business Internships

An internship program is offered for business students wishing to gain valuable practical experience in their major. Students must be degree-seeking business majors with a minimum overall GPA of 3.0 and have a minimum GPA of 3.5 in business courses. In addition, students must also have declared a major in business and successfully completed at least two courses in their majors before registering for an internship. Students cannot enroll in more than 6 hours of coursework when enrolling for a full-time internship at the graduate level.

Successful completion of the 130 hours of on-site learning earns students three elective credits. Only one internship course per student per semester is permitted. Students desiring to enroll in an additional internship must obtain approval from the Assistant Dean for External Programs and Outreach.

A full listing of internship requirements and processes can be found in the College of Business and Technology Internship/Cooperative Guide, which can be obtained in 210 Sam Wilson Hall.

Accelerated M.B.A. Core Courses

| AMBA 5140 | Data Analysis and Modeling .................................................. 3 |
| AMBA 5150 | Account Info. for Decision Making ............................................ 3 |
| AMBA 5180 | Economics for Managers ............................................................ 3 |
| AMBA 5210 | Operations and Tech. Strategy .................................................. 3 |
| AMBA 5220 | Global Business .................................................................... 3 |
| AMBA 5230 | Strategic Leadership ................................................................. 3 |
| AMBA 5400 | Market Strategy .................................................................... 3 |
| AMBA 5430 | Applied Corporate Finance ......................................................... 3 |
| AMBA 5500 | Strategic Management Process .................................................... 3 |
| Electives and Capstone Electives** | 6 |
| AMBA 5800 | Strategic Experience*** .............................................................. 3 |

Total Hours .................................................................. 36

* For those students with recent formal academic preparation in business administration, one or more foundation courses may be waived by the Director of Graduate Studies in Business.

** All electives must be at the graduate level and must be approved by the Director of Graduate Studies in Business prior to registration. The six credits of electives will be selected to meet students' special interests and needs and may include non-business courses. Foundation courses may not be taken for elective graduate credit, and no more than one elective may be taken from courses co-listed with undergraduate courses.

*** This course fulfills the Capstone Experience requirement in the M.B.A. program.

The accelerated M.B.A. program will meet every third weekend on Friday evenings and all day on Saturday. Students in the accelerated M.B.A. program will complete three courses in each of the four twelve-week sessions. An orientation session for the accelerated M.B.A. students will be held on the Saturday prior to the beginning of classes. The entire accelerated M.B.A. program may be completed in one year. Students enrolled in the accelerated M.B.A. will pay a differential fee for the accelerated courses.

Students enrolled in the accelerated M.B.A. program are not eligible for Graduate Assistantships or Tuition Scholarships.

Business Administration Graduate Certificate

Martha M. Pointer, Ph.D., Graduate Coordinator
214 Sam Wilson Hall
Box 70699
(423) 439-5314 Fax (423) 439-5274
e-mail: pointer@etsu.edu

Faculty:
Jafar Alavi; Edward Barya; Ting-Heng Chu; Andrew Czuchry; Douglas Dotterweich; Michael Everett; Frederick Hipple; Beichen Liang; Kurt Loess; Warren Maekara; Michael Marchioni; Michael McKinney; Phillip Miller; Lorianne Mitchell; Thomas Moore; Robert Morgan; Martha Pointer; John Quigley; Joel Ryan; Gary Shelley; Donald Shemwell; Michael Small; Jon Smith; Allan Spritzer; Jean Stead; Walter Stead; Kerry Swinehart; Karen Tarnoff; Thomas Tull; Craig Turner; Ronald Wei; Mahmoud Yasim; Ugur Yavas.

The Business Administration Graduate Certificate (B.A.G.C.) is offered to individuals who hold undergraduate degrees in nonbusiness fields and who desire some formal education in business. They include employees of business organizations planning to move into management positions, entrepreneurs planning to set up small businesses, and teachers seeking certification or recertification to teach high school business courses. The program is also offered to individuals who earned undergraduate degrees in business several years ago and who seek to update their knowledge and skills. Coursework completed in fulfillment of the Certificate program could subsequently be used to satisfy foundation requirements for the M.B.A. or M.Acc. program. Thus, a student who earned the B.A.G.C. would be closer to meeting the requirements for one of these two degree programs.
Admission Requirements

Applicants for admission to the B.A.G.C. program must hold an undergraduate degree from a regionally accredited institution. Applicants must submit transcripts of all undergraduate work completed. Admission criteria will include the student's grade point average (GPA); work experience; and general suitability for graduate study. International students must be eligible for admission to the university as a graduate student, as determined by the School of Graduate Studies. The applicant is presumed to have computer literacy and an understanding of mathematics through calculus. A student who does not have these competencies will be required to complete appropriate undergraduate courses before proceeding to take related Certificate coursework.

Curriculum

All students in the B.A.G.C. program are required to complete a minimum of 15 semester credits of graduate course work. Students, guided by an advisor, will select 15 credits of courses from the following list:

B.A.G.C. Courses:

- Five approved courses from the following:
  - ACCT 5000 Essentials of Accounting
  - ECON 5000 Essentials of Economics
  - ECON 5010 Essentials of Statistics
  - FNCE 5000 Essentials of Finance*
  - MGMT 5010 Essentials of Management
  - MGMT 5020 Legal & Social Environment
  - MGMT 5030 Quantitative Analysis for Operations Mgmt.**
  - MKTG 5010 Essentials of Marketing
  - One elective graduate business course approved by .......... 3
  - the student's advisor and the respective department chair

  Total Credit Hours Required ........................................ 15

* The prerequisite for FNCE 5000 is ACCT 5000 or equivalent.

** Prerequisite for MGMT 5030 is ECON 5010 and MGMT 5010 or equivalents.

A formal program of study will be drawn up for each student and authorized by the Director of Graduate Studies in Business and Technology.

Students who receive a Business Administration Graduate Certificate are expected to have some basic knowledge in each of the five core areas of business: accounting, economics, finance, management, and marketing. A student will be permitted to take the elective course in the above list only if he or she can demonstrate previously-acquired knowledge in all five core areas.

Students who have, within a five-year period, completed coursework at the undergraduate or graduate level which is essentially equivalent to a course on the above list and who earned a grade of "A" or "B" in such coursework will be required to select another course in fulfillment of the 15-hour requirement.

Retention and Graduation

Students enrolled in the Certificate in Business Administration program will be subject to the graduation policies applicable to all graduate programs at ETSU. In order to receive the Certificate, students will be required to earn a cumulative grade point average of 3.0 on coursework leading to the Certificate.

Entrepreneurial Leadership Graduate Certificate

Graduate School Contact:

Cindy Hill; billcet@etsu.edu; 423-439-6590
Andrew Czuchry, Ph.D., Graduate Coordinator
338 Sam Wilson Hall
Box 70619
(423) 439-7444
e-mail: czuchry@etsu.edu

Graduate Faculty:

Andy Czuchry; Andy Clark; Craig Turner.

In today's business environment, marked by rapid technological change and increasing globalization, the skill sets traditionally associated with entrepreneurs have become a necessary part of the training for the managers and administrators of tomorrow. The entrepreneur's ability to adapt to rapidly changing environmental conditions, deal with risks, and aggressively exploit opportunities to either develop new businesses or effectively manage existing organizations must be enhanced to ensure a sustainable competitive advantage.

The growing recognition of the importance of entrepreneurship education, its implications for the development for small and medium businesses and its relationship to developments in international business, has led ETSU to develop a graduate certificate in Entrepreneurial Leadership. Prospective students for the certificate will be individuals who have a desire to start their own business or who have new business development responsibilities within existing businesses, industry or the professional community.

The criteria for admission to the Entrepreneurial Leadership Graduate Certificate Program include:

1. A baccalaureate degree, and
2. A minimum grade point average (GPA) of 2.5 on a 4.0 scale.

Upon admission to the program, an individualized program of study is designed based upon evaluation of previous coursework and professional experience. A student may transfer up to nine (9) credit-hours of ETSU approved coursework into the certificate program. Coursework previously counted toward an earned degree or an earned certificate may not be transferred into the Entrepreneurial Leadership Graduate Certificate Program.

A student may simultaneously enroll in the Entrepreneurial Leadership Graduate Certificate Program and a specified degree program if he/she is duly admitted to both programs. Up to 18 credit-hours of coursework in the certificate program may be approved for transfer into the Master of Science in Technology degree program and up to nine credits can be transferred into the M.B.A. program. The proposed program requires completion of 18 semester hours of coursework.

Required Courses

- MGMT 5617 Small Business Mgmt
- ENTC/BADM 5370 Entrepreneurial Finance
- ENTC/MBGT 5640 Innovative Entrepreneurship
- BADM/ENTC 5710 Strategic Management
- BADM/ENTC 5800 Strategic Experience
- ENTC/MBGT 5050 Leading Continuous Improvement
- ENTC/MBGT 5070 Leading Empowered Problem Solving Teams
- ENTC/MBGT 5060 Scheduling for Project and Quality Management
- ENTC/MBGT 5630 Project Management

Total Credit Hours Required ................................... 18 Credit Hours

Chemistry

Graduate School Contact:

Gail Powers; powers@etsu.edu; 423-439-4703
Chu-Ngi Ho, Ph.D., Graduate Coordinator
408 Brown Hall
Box 70695
(423) 439-6914
chu nghoi@etsu.edu

Jeff G. Wardeska, Ph.D., Department Chair
468 Brown Hall
Box 70695
(423) 439-4367
r21jeff@etsu.edu

Faculty:

Chu-Ngi Ho; Yu Lin Jiang; Ismail O. Kady; Scott J. Kirkby; Peng Sun; Aleksey Vasiliev; Jeff G. Wardeska; David G. J. Young; Ningfeng Zhao.

The Department of Chemistry offers a Master of Science degree with concentrations in the four traditional major areas of chemistry: analytical, inorganic, organic and physical. The program is designed, through advanced courses and individual research, to prepare the student for a career as a chemist or for continued study in a rigorous doctoral program.

Program Admission Requirements
To be eligible for admission to the program leading to an M.S. degree, a student must have:

1. A bachelor's degree from an accredited college or university with an adequate undergraduate background for the advanced work in the chemistry department.
2. This background must include a course in Physical Chemistry with laboratory requiring calculus as a prerequisite.
3. At least two recommendation letters from individuals who can comment on the academic as well as personal qualifications of the applicant.

Incoming students lacking certain prerequisites may, with departmental permission, make up these deficiencies. However, graduate credit will not be received for this coursework. Upon entering, some students may be asked to take departmental placement exams, the purpose of which is to determine the level of the incoming student's preparedness for the graduate program. These exams, if administered, will be used to better advise students as to their specific course of study.

**Minimum Degree Requirements** – The chemistry major's program offers students a broad, yet intensive, study of the four traditional major areas of chemistry: analytical, inorganic, organic, and physical.

A graduate major must take at least one of the core courses listed in each of the areas. Additionally, each student must choose an area of study in conference with an advisor or research director. In this area, two core courses must be taken. Additional chemistry coursework may be chosen in any area.

A minimum of 30 semester credits is required for the M.S. degree in chemistry. A maximum of nine credits can be included from CHEM 5950 (Research in Chemistry), CHEM 5960 (Thesis) and CHEM 5010 (Seminar) in the required semester credits. Seminar is required and must be related to the student's research. CHEM 5450 does not count toward the required 30 credit hours. With the approval of the student's advisor, up to 10 hours of credit may be in related fields.

All graduate majors are encouraged to conduct original research and to complete a thesis in their area of study, under the direction of a graduate faculty member. The student's research director should be chosen as soon as possible after admission to candidacy. Chemistry 5450 is designed to help new students to complete this process within the first semester of their studies. See “Admission to Candidacy” elsewhere in this catalog. All students are expected to attend departmental seminars regularly even if they are not formally enrolled for credit.

The non-thesis option is not recommended for graduate students majoring in chemistry. With proper justification, the department chair may approve a non-thesis option which will require 33 credits of coursework, which may include a seminar topic of current interest. The topic is subject to the advisor's approval.

To assure that graduate students have adequately assimilated their knowledge at the master's level, written comprehensive examinations are given in each of the four basic areas of chemistry. The examinations are taken after completion of the appropriate core courses. All majors must pass the comprehensive exam in their selected area of study. In addition, majors must pass comprehensive exams in all the other areas, except that these additional exams may be waived by achieving a grade of “B” or better in a core course within that given area. In the event that a student does not pass the comprehensive exam on the first attempt, the exam may be retaken as early as the next scheduled time with the approval of the student's advisory committee. However, remedial coursework for the student may be required by the advisory committee before approval is given. Students are limited to two attempts of each comprehensive exam. Failure to pass an exam after two attempts will result in the student being ineligible to continue in the program.

After successfully completing all other requirements for the master's program, a final oral examination is administered to the student by the student's advisory committee. The oral exam is the defense of the candidate's thesis and is open to all interested faculty and students. Questions from the committee, while centering around the candidate's thesis work, are not limited to the research involved, but may cover other related topics of chemistry that a student would be expected to encounter in a master's program.

**Concentration Requirements**

The department offers core courses in each of the major areas of chemistry as listed below:

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Code(s)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analytical</td>
<td>5210, 5220</td>
<td>3-6 credits</td>
</tr>
<tr>
<td>Inorganic</td>
<td>5110, 5120</td>
<td>3-6 credits</td>
</tr>
<tr>
<td>Organic</td>
<td>5510, 5541</td>
<td>3-6 credits</td>
</tr>
<tr>
<td>Physical</td>
<td>5710, 5741, 5743</td>
<td>3-6 credits</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>15 credits</td>
</tr>
</tbody>
</table>

A student is required to take two core courses (6 credit hrs.) in the chosen area of concentration and at least one core course in each of the remaining three (3 credit hrs. each) for a total of 15 credit-hours.

### Clinical Nutrition

**Master of Science in Clinical Nutrition**

**Department of Allied Health Sciences**

Graduate School Contact:

Gail Powers; powers@etsu.edu; 423-439-4703

Elizabeth Lowe, Graduate Coordinator

101 Hutcheson Hall

Box 70690

(423) 439-7537

e-mail: lowee@etsu.edu

Charles Faust, Ed.D., Chair

73 Lamb Hall

Box 70690

(423) 439-4497

e-mail: faust@etsu.edu

The Department of Allied Health Sciences offers a two-year program in clinical nutrition leading to a master of science degree. The 36-40 credit curriculum provides a study of medical nutrition therapy, management, nutrition in community, and nutrition research. The dietetic internship program (D1), which includes more than 1000 hours of supervised practice, also incorporates graduate level coursework as a mandatory component of the program. Students who choose to complete a thesis and an internship will be required to take 46 credits. The dietetic internship program is accredited by the Commission on Accreditation for Dietetics Education (CADE) of the American Dietetic Association (ADA), 120 South Riverside Plaza, Chicago, IL 60606-6995, 312/899-5400. Students successfully completing the M.S. degree requirements and the internship program will be eligible to take the Registration Examination for Dietitians. Upon completion of the program and successful completion of the registration exam, students may become registered dietitians (RD) and seek positions as clinical, community, research, consultant, educator, and management dietitians.

**Program Admission Requirements**

1. Admission to the School of Graduate Studies.
2. Completion of the undergraduate didactic program in dietetics (DPD). Students applying to the dietetic internship program must also have received a verification statement or the intent to graduate from the DPD program director. Students from related disciplines will be required to complete the undergraduate prerequisites mandated by ADA, with a minimum grade point average (GPA) of 3.0 on a 4.0 grading scale.
3. A minimum GPA of 3.0 on a 4.0 scale in the applicant's undergraduate major and/or minor discipline.
4. Satisfactory references from three persons familiar with the applicant's academic and work experience.
5. Satisfactory scores on the Graduate Record Exam. (GRE)

Applications are accepted for the M.S. in Clinical Nutrition in January and February. Guidelines for applying are found in the Graduate Catalog and on the ETSU web site. Dietetic Internship applications are accepted once per year in mid-February. The American Dietetic Association and the Commission Accreditation for Dietetics Education set this deadline in accordance with the national computer matching process. Applicants will be notified of admission status in April for the Dietetic Internship Program. Students who are not applying for the internship program may be admitted and begin graduate coursework at the beginning of any semester.

**Nutrition Core Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTFD 5410</td>
<td>Seminar in Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NTFD 5420</td>
<td>Maternal-Child Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NTFD 5430</td>
<td>Complex Adult Nutrition Care</td>
<td>4</td>
</tr>
</tbody>
</table>
NTFD 5440 Nutrition Programs: Theory to Appl. .................. 4
NTFD 5450 Advanced Nutrition Therapy ......................... 4

Program Requirements ........................................... 9 Credit Hours
Students will choose one (1) of the following research courses:
EDFN 5950 Methods of Research or
PMHU 5001 Nursing Research and Design or
PUBH 5950 Research Seminar ..................................... 3

Students will choose one (1) of the following science courses:
NTFD 5447 Nutritional Biochemistry or
BIOL 5167 Biochemistry of Metabolism or
PEXS 5467 Nutrition and Exercise ................................. 3

Students will choose one (1) of the following st atistics courses:
PUBH 5310 Biostatistics or
SOAA 5444 Applied Data Analysis or
ECON 5010 Essentials of Statistics ............................... 3

Students will choose one (1) of the following options for culminating experience:
Thesis Option ................................................................. 6
Non-thesis Option ......................................................... 3

Internship Experience (Non-Thesis Option) ...................... 13 Credit Hours
The dietetic internship requires 13 credits in supervised practice/practicum settings. Students complete these under the guidance of registered dietitians at 12 different clinical, community, and food service management sites. The internship practicum rotations follow completion of the didactic coursework for the M.S. in clinical nutrition. Students in the internship will be responsible for costs related to clinical rotations including but not limited to: 1. liability insurance; 2. transportation; 3. professional membership fees; and 4. required medical screenings. For more information about the program, please contact the program director at (423) 439-7537.

Non-thesis option/dietetic internship experience includes the following 13 credits to be taken after completing the graduate coursework above:
NTFD 5415 Professional Issues in Dietetics ........................ 1
NTFD 5421 Lifecycle Nutrition Practicum ........................... 2
NTFD 5431 Nutrition Therapy Practicum I ......................... 2
NTFD 5432 Nutrition Therapy Practicum II ....................... 2
NTFD 5433 Nutrition Therapy Practicum III ....................... 2
NTFD 5451 Nutrition and Food Service Mgmt. Practicum I .... 2
NTFD 5452 Nutrition and Food Service Mgmt. Practicum II ... 2

Thesis Option ................................................................. 9 Credit Hours
NTFD 5960 Thesis .......................................................... 6
Elective as approved by Advisor ...................................... 3

Elective courses will be determined by the Graduate Advisory Committee that is responsible for overseeing the student's overall academic program, including the program of study. Courses applicable to this program exist at ETSU in the colleges of Public Health, Clinical and Rehabilitative Health Sciences, Nursing, Arts and Sciences, and Business and Technology.

Total - Thesis option ................................................... 36 Credit Hours
Non-Thesis Option (Internship Exp.) ......................... 40 Credit Hours
Thesis Option with Internship Exp. .............................. 46 Credit Hours
average of 3.0 or higher and the removal of all conditions imposed at the
time of admission to the School of Graduate Studies is required. Students
admitted to candidacy will declare two areas of emphases with one area being
within the Department of Communication (6-9 hours) and one in a cognate
area (9 hours). The student also must indicate pursuit of the thesis or non-
thesis option at that time, with approval by graduate faculty of the department.
At least 75 percent of the total course hours must be taken within the
Department of Communication.

**Degree Requirements**

A minimum of 39 hours of coursework is required for both the thesis and
non-thesis options. No more than 30 percent of all courses taken in the
program may come from 5xx7 series.

### Summary of Course Requirements for the M.A. in
Professional Communication

<table>
<thead>
<tr>
<th>Category</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication Core</td>
<td>18</td>
</tr>
<tr>
<td>Emphasis*</td>
<td>6-9</td>
</tr>
<tr>
<td>Cognate</td>
<td>9</td>
</tr>
<tr>
<td>Thesis*</td>
<td>3-6</td>
</tr>
<tr>
<td>or Approved Communication Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours Required:</strong></td>
<td>39</td>
</tr>
</tbody>
</table>

* *Students opting for a 3-credit-hours thesis must choose 9 credits in the communication emphasis, while those choosing a six
credit-hour thesis must select 6 credits for the communication emphasis.*

### Communication Core

- SPCH 5330 Applied Comm. Theory ................. 3
- MCOM 5037 Communications Law or ............... 3
- MCOM 5030 Media and First Amendment ............ 3
- MCOM 5040 Seminar in Communications ............ 3
- 5000-level Dept. of Comm. Topics Course ........ 3
- 5000-level Dept. of Comm. Elective ............... 3
- **Total Communication Core:** .................... 18

### Communication Emphasis

Courses in a single area within the Department of Communication (Speech
Communication, Public Relations, Advertising, Journalism, Broadcasting, or
Theatre)

- **Total Communication Emphasis:** .............. 6-9

### Cognate Areas of Emphasis

Nine (9) hours of related courses must be taken in one department with
approval of the respective department chair. These courses are selected and
structured by the advisor and student based upon the student’s experiences,
interests, and abilities. Some participating departments/concentrations are:
Art and Design/Design of Publications; Computer Science/Communication
Technology; Curriculum and Instruction/Media Services; English/
Professional Writing and Editing; Foreign Languages; History; Public Health;
Psychology/Organizational Communication; Technology/ Professional
Writing and Editing; Communication Technology. Others will be considered on
a case by case basis.

- **Total Cognate Area of Emphasis:** ............ 9

### Comprehensive Examinations

Students in the thesis option defend the thesis orally before a Department
of Communication faculty committee. Students in the non-thesis option
take a written comprehensive examination, after the completion of 36 hours.
Students failing either the oral or the written examination will be permitted
to reschedule the examination no sooner than one semester later. Examinations
are not offered during the summer.

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**Computer and Information Sciences**

**Master of Science in Computer Science**

Graduate School Contact:

Shella Bennett; bennetsg@etsu.edu; 423-439-4708

Martin L. Barrett, Ph.D., Graduate Coordinator
4-464 Nicks Hall
Box 70711
(423) 439-7409

Phillip Pfeiffer, Ph.D., Associate Graduate Coordinator
4-467 Nicks Hall
Box 70711
(423) 439-5355
e-mail: phil@etsu.edu

Terry A. Countermine, D.Ed., Department Chair
4-464 Nicks Hall
Box 70711
(423) 439-5804
e-mail: counter@etsu.edu

Faculty:
- Gordon Bailes; Gene Bailey; Martin Barrett; Terry Countermine; Phillip
  Pfeiffer; Tony Pitarresi; Kellie Price; Jeffrey Roach; Donald Sanderson;
  Suzanne Smith; David Tarnoff; Christopher Wallace; Ron Zucker.

In addition to its CSAB-accredited B.S. program in computer science, the
department offers a Master of Science (M.S.) degree program in computer
and information sciences with two concentrations: applied computer science
and information sciences.

Note: The department’s course offerings and requirements (as well as university regulations) are continually
under examination and revision. Requirements, policies, and course offerings are subject to change at
any time.

**Graduate Admission Criteria**

Each applicant is evaluated on the basis of the following factors:

1. Evidence of competence to begin graduate study. Such evidence should
include either an undergraduate GPA of at least 3.0 (on a 4.0 scale),
satisfactory GRE scores (a total of at least 1050 for verbal and
quantitative, with at least 400 on each), or a professional record that
demonstrates readiness for graduate study in computer science.

2. Coursework in computer science. The equivalent of a major in computer
science is expected. Students lacking this background may be required
to complete (with a B- or higher in each course) a sequence of
undergraduate foundation courses in computer science and mathematics.
Related professional experience, such as programming, systems analysis,
and/or systems design may be substituted for some foundation courses.

3. For international students, a TOEFL score of at least 79 (Internet based),
213 (computer based), or 550 (paper) is required as well as a GRE verbal
score of at least 400, a GRE quantitative score of at least 400, and a
total of at least 1050 for verbal plus quantitative.

4. Three letters of recommendation should be submitted that evaluate the
applicant’s academic ability, professional maturity, and communication
skills.

**Minimum M.S. Degree Requirements**

During the period before candidacy, graduate students are advised by the
departmental graduate coordinator or associate graduate coordinator. By the
beginning of the second semester students should form their graduate advisory
committee. The committee’s chair becomes the student’s primary advisor.
The faculty member who directs the non-thesis student's software
development project serves as the student's primary advisor and chair of the
committee. Where choices exist, students will decide, in consultation with
their advisor, which courses to take to complete the master of science degree.

For students in a thesis option, the chair of the student’s graduate advisory
committee directs the research and the preparation of the thesis. After selecting
a topic, the student, in consultation with the student's advisory committee
chair, must develop a thesis proposal and plan which must be presented to
the graduate faculty and approved by the student's committee. The approval
form must bear the signatures of the student and the advisory committee
members. The student must orally present and defend the thesis.
Advisory Committee – Students should have this committee formed at the beginning of the second semester in which coursework is taken. Students may not apply for candidacy for a graduate degree until the committee has been formed.

Admission to Candidacy – To be admitted to candidacy a student must meet a number of requirements of the Graduate School (See Degree Requirements).

Courses Open to Graduate Students – Graduate-level courses are listed at the 5XXX level. Courses at the 4XX7-5XX7 level are subject to special rules concerning enrollment and applicability as electives. Students who desire graduate credit for a course that is offered at both levels must register at the 5XX7 level. Students who wish to count a 5XX7 course as an elective should check with the graduate coordinator about that course's standing before enrolling; courses that are not explicitly listed as possible electives are treated on a case-by-case basis, and some are not eligible to be counted as electives. A course taken for undergraduate-level credit (4XX7 level) cannot be repeated for graduate credit (5XX7 level). Graduate students who are registered for a 5XX7 level course are required to do additional work over and above that required for students registered at the 4XX7 level. At most, 30 percent of all credit-hours which are applicable to a master's program may be in courses at the 5XX7 level. Non-degree students who desire graduate credit may enroll for courses at the 5XXX level with consent of the instructor.

Independent Study – No more than one independent study course (1-3 hours) may be taken for credit toward a graduate degree without special written approval of the graduate program coordinator.

Special Topics – No more than two special topics courses (1-6 hours) may be taken for credit toward a graduate degree without special written approval of the graduate coordinator.

Prerequisites for Graduate Study in Computer Science: Students must satisfy the program admission requirements (see Graduate Admissions Criteria above). The foundation coursework includes the following:
1. A background in mathematics including probability and statistics, discrete structures, and for the applied computer science concentration basic calculus.
2. Computer programming, including problem analysis, algorithm, synthesis, and competence in data structures, with knowledge of a high level programming language and for the applied computer science concentration assembly language.
3. Undergraduate-level coursework in database management systems. The applied computer science concentration requires additional work in file processing, computer architecture, and operating systems. The information technology track requires additional coursework in networking and web programming.
4. Some graduate courses have additional or special prerequisites.

Common Core Requirements ............................................. 10 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 5200</td>
<td>Software Systems Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5300</td>
<td>Software Design</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5230</td>
<td>Software Project Management</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5520</td>
<td>Research Methods in Computer Science</td>
<td>1</td>
</tr>
</tbody>
</table>

Capstone Requirements ........................................... 9 Credit Hours

Choose one (1) sequence from the following:

Non-Thesis Option

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 5910</td>
<td>Software Development Project I</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5920</td>
<td>Software Development Project II</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5930</td>
<td>Software Development Project III</td>
<td>3</td>
</tr>
</tbody>
</table>

Thesis Option

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 5550</td>
<td>Directed Research 1</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5551</td>
<td>Directed Research 2</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5560</td>
<td>Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>

Applied Computer Science Concentration

The Applied Computer Science Concentration is oriented toward the study of concepts, theory, and practical application of software development. This program teaches students to develop and use abstract models for analytic, descriptive, and predictive studies of real-world phenomena and systems. The concentration emphasizes good software development practices. Student will participate in software development projects that provide practice with requirements analysis, software design, modeling, project management, verification and validation, and quality assurance. In addition, computer science topics will be applied to projects, including database management, analysis of algorithms, and principles of operating systems.

Concentration Requirements ....................................... 12 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 5150</td>
<td>Topics in Distributed Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5220</td>
<td>Software Verification and Validation</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5250</td>
<td>Database Design</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5620</td>
<td>Analysis of Algorithms</td>
<td>3</td>
</tr>
</tbody>
</table>

Guided Electives .................................................. 6 Credit Hours

Select six (6) credit-hours from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 5100</td>
<td>Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5157</td>
<td>Interactive Graphics</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5217</td>
<td>Ethical Issues in Computing</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5317</td>
<td>Internet and Computer Law</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5360</td>
<td>Network and System Administration</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5417</td>
<td>Introduction to System Administration</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5460</td>
<td>Network and Information Security</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5610</td>
<td>Formal Languages and</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5710</td>
<td>E-Commerce Implementation</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5720</td>
<td>Enterprise and E-Business Integration</td>
<td>3</td>
</tr>
<tr>
<td>DIMG 5831</td>
<td>Interactive Multimedia</td>
<td>3</td>
</tr>
<tr>
<td>MATH 5340</td>
<td>Graph Theory and Its Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours Required ............................................... 37

Note: If a student counts 5317 as one elective, then some 5xx7 courses may not be counted as the student's second elective. Please check with the graduate coordinator for specifics.

Information Technology Concentration

The Information Technology Concentration builds on the basic concepts of software development and Web programming. Students in this concentration will develop e-commerce and business-to-business Web applications. The concentration emphasizes good software development practices. Students will participate in software development projects that provide practice with requirements analysis, software design, modeling, project management, verification and validation, and quality assurance. Other skills include network and system administration and information security.

Concentration Requirements ....................................... 12 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 5150</td>
<td>Topics in Distributed Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5157</td>
<td>Interactive Graphics</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5217</td>
<td>Ethical Issues in Computing</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5317</td>
<td>Internet and Computer Law</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5417</td>
<td>Introduction to System Administration</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5460</td>
<td>Network and Information Security</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5620</td>
<td>Analysis of Algorithms</td>
<td>3</td>
</tr>
</tbody>
</table>

Guided Electives .................................................. 6 Credit Hours

Select six (6) credit-hours from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 5110</td>
<td>Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5150</td>
<td>Topics in Distributed Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5157</td>
<td>Interactive Graphics</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5217</td>
<td>Ethical Issues in Computing</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5317</td>
<td>Internet and Computer Law</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5417</td>
<td>Introduction to System Administration</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5460</td>
<td>Network and Information Security</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5710</td>
<td>E-Commerce Implementation</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5720</td>
<td>Enterprise and E-Business Integration</td>
<td>3</td>
</tr>
<tr>
<td>DIMG 5831</td>
<td>Interactive Multimedia</td>
<td>3</td>
</tr>
<tr>
<td>MATH 5340</td>
<td>Graph Theory and Its Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours Required ............................................... 37

Note: If a student counts 5317 as one elective, then some 5xx7 courses may not be counted as the student's second elective. Please check with the graduate coordinator for specifics.

Oral Examination

All students must also complete a final oral examination, with a mark of 80% or better in each subject area, within a year of completing their coursework. This examination, which will cover material from the seven courses in the student's core curriculum, will be administered by the graduate coordinator or a duly appointed member of the department's faculty. Please
Emerging Technology Graduate Certificate

**Martin Barrett, Ph.D., Graduate Coordinator**

4-464 Nickels Hall  
Box 70711  
(423) 439-7409  
e-mail: barrettmm@etsu.edu

**Faculty:**  
Gordon Bailes; Gene Bailey; Martin Barrett; Terry Countermine; Donald Gottehrern; Michaela Laws; Phillip Pfieffer IV; Vernon Pine; Kellie Price; Jeffrey Roach; Donald Sanderson; Suzanne Smith; David Tarnoff; Christopher Wallace.

The field of computer science changes constantly. Practicing professionals, even those who graduated only a few years ago, may find themselves falling behind in their technical knowledge. They need to update their skills and knowledge in order to maintain their employability. This certificate program is designed for individuals who need to update their technical skills in current technologies within computer science and information technology. Students will demonstrate those skills on real-world problems encountered by computing professionals. Students will be able to choose courses appropriate to their academic and professional experience.

**Admission Requirements**

A bachelor's degree in computer science or three (3) years as a practicing information technology professional (as evaluated by the graduate coordinator) is required for admission.

**Curriculum**

All students in the Emerging Technology Certificate Program are required to complete 12 credit-hours (4 courses) from the list of courses below. The student and the program coordinator will, upon admission of the student, meet to formulate a coursework plan, and only courses approved by the program coordinator may be used for credit toward the certificate. A minimum grade of “C” is required in each course, and an overall grade point average (GPA) of 3.0 in the program is required for graduation.

**Approved Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 5011</td>
<td>Internet Technology I</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5012</td>
<td>Internet Technology II</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5017</td>
<td>Information Assurance</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5027</td>
<td>Information Management</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5057</td>
<td>Advanced Internet Technology</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5067</td>
<td>Network Essentials</td>
<td>3</td>
</tr>
<tr>
<td>*CSCI 5097</td>
<td>Emerging Technology</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5127</td>
<td>Database Management Systems I</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5150</td>
<td>Topics in Distributed Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5157</td>
<td>Interactive Graphics</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5200</td>
<td>Software Systems Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5217</td>
<td>Ethical Issues in Computing</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5220</td>
<td>Software Verification and Validation</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5227</td>
<td>Database Management Systems II</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5230</td>
<td>Software Project Management</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5300</td>
<td>Principles &amp; Applications of Software Design</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5360</td>
<td>Network and System Administration</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5417</td>
<td>Data Communication &amp; Network Security</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5460</td>
<td>Network and Information Security</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5710</td>
<td>E-Commerce Implementation</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5720</td>
<td>Enterprise and E-Business Integration</td>
<td>3</td>
</tr>
<tr>
<td>*CSCI 5957</td>
<td>Special Topics in Computer Science</td>
<td>3</td>
</tr>
</tbody>
</table>

*Courses may be repeated for credit with coordinator’s approval.

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**Community Agency Counseling Concentration**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDAL 5100</td>
<td>Human Relations and Group Process</td>
<td>3</td>
</tr>
<tr>
<td>HDAL 5110</td>
<td>Social &amp; Cultural Foundations in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>HDAL 5230</td>
<td>Advanced Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>HDAL 5430</td>
<td>Legal &amp; Ethical Issues</td>
<td>3</td>
</tr>
<tr>
<td>HDAL 5950</td>
<td>Methods of Research</td>
<td>3</td>
</tr>
</tbody>
</table>

**Core Requirements**

**Specific Requirements**

---

East Tennessee State University

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Core Requirements
HDAL 5150 Career Development .......................... 3
HDAL 5250 Counseling in Community Agencies ...... 3
HDAL 5540 Treating Trauma & Abuse in the Family or  ................................................................. 3
HDAL 5549 Substance Abuse: Counseling Individ. & Families  ....................................................... 3
HDAL 5550 Counseling I .................................................. 3
HDAL 5562 Counseling II ............................................... 3
HDAL 5570 Supervised Counseling Practicum ......... 3
HDAL 5810 Psychological Assessment ................. 3
HDAL 5820 Developmental Psychopathology .......... 3
HDAL 5880 Internship .................................................... 6
PSYC 5825 Psychopathology or
SOWK 5430 Psychopathology in Social Work Practice or
HDAL 5825 Developmental Psychopathology .......... 3

Total Concentration Hours Required .................. 30
HDAL 5960 Thesis or
Guided Elective ....................................................... 3
Total Hours Required for M.A. degree ................. 48

Elementary/Secondary School Counseling Concentration

Janna Scarborough, Ph.D., Associate Professor, School Counseling Program Coordinator
301a Warf-Pickel Hall
Box 70548
(423) 439-4191
e-mail: scarboro@etsu.edu

The school counseling concentration is designed to prepare individuals to work in school settings and to be eligible for licensure as a K-12 school counselor. The school counseling concentration has been approved by the state of Tennessee as a preparation program for K-12 school counselors. To satisfy state requirements, candidates without teaching experience seeking to be licensed as school counselors for grades K-12 must take EDFN 5410, Foundations of Education (EDFN 2300 can be substituted) and SPED 5500. History, Issues, and Trends in Educating Exceptional Learners (SPED 2300 can be substituted). Note that all school counseling students must have a successful background check in order to be fully admitted into the school counseling concentration. See the program coordinator for details.

Specific Requirements
Core Requirements
HDAL 5100 Human Relations and Group Process ........ 3
HDAL 5110 Social & Cultural Foundations in Counseling .... 3
HDAL 5230 Advanced Developmental Psychology .......... 3
HDAL 5430 Legal & Ethical Issues .......................... 3
EDFN 5950 Methods of Research ........................... 3
Total Core Hours Required ...................................... 15

Concentration Requirements
HDAL 5010 Principles and Administration of ............... 3
Counseling and Consultation Services
HDAL 5150 Career Development .......................... 3
HDAL 5440 Treating Trauma and Abuse in the Family or  ................................................................. 3
HDAL 5549 Substance Abuse: Counseling with Individuals and Families  ........................................ 3
HDAL 5550 Counseling I .................................................. 3
HDAL 5561 Counseling Techniques with Children .......... 3
HDAL 5562 Counseling II ............................................... 3
HDAL 5570 Supervised Counseling Practicum ............. 3
HDAL 5810 Psychological Assessment ...................... 3
HDAL 5880 Internship .................................................... 6
Total Concentration Hours Required ...................... 30
HDAL 5960 Thesis or
Guided Elective ....................................................... 3
Total Hours Required for M.A. degree ................. 48

Higher Education Counseling Concentration

Patricia Robertson, Ed.D., Professor and Chair, Human Development and Learning and Higher Education Coordinator
301 Warf-Pickel Hall
Box 70548
(423) 439-7693
e-mail: robertpe@etsu.edu

The higher education counseling concentration is designed to prepare counselors and administrative professionals for service to students in two-year and four-year colleges and universities. Graduates in this concentration may seek positions in the student affairs, college and university counseling centers, career placement centers, admissions and academic advisement, residential life, financial aid, disability services, and campus diversity and multicultural programs.

Specific Requirements
Core Requirements
HDAL 5100 Human Relations and Group Process ........ 3
HDAL 5110 Social and Cultural Foundations in Counseling .... 3
HDAL 5230 Advanced Developmental Psychology .......... 3
HDAL 5430 Legal and Ethical Issues .......................... 3
EDFN 5950 Methods of Research ........................... 3
Total Core Hours Required ...................................... 15

Concentration Requirements
HDAL 5150 Career Development .......................... 3
HDAL 5440 Treating Trauma and Abuse in the Family or  ................................................................. 3
HDAL 5549 Substance Abuse: Counseling Individ. & Families  ....................................................... 3
HDAL 5550 Counseling I .................................................. 3
HDAL 5562 Counseling II ............................................... 3
HDAL 5570 Supervised Counseling Practicum ............. 3
HDAL 5800 Internship .................................................... 6
Total Concentration Hours Required ...................... 30
HDAL 5960 Thesis or
Guided Elective ....................................................... 3
Total Hours Required for M.A. degree ................. 48

Marriage and Family Therapy Concentration

Brent Morrow, Ph.D., Associate Professor, Marriage and Family Therapy Coordinator
322 Warf-Pickel Hall
Box 70548
(423) 439-4197
e-mail: morrowb@etsu.edu

The marriage and family therapy concentration is designed to prepare students to provide counseling for individual, couple, and family problems and issues in such settings as human service agencies, mental health centers, psychiatric hospitals, religious agencies, and counseling agencies.

Specific Requirements
Core Requirements
HDAL 5100 Human Relations and Group Process ........ 3
HDAL 5110 Social & Cultural Foundations in Counseling .... 3
HDAL 5230 Advanced Developmental Psychology .......... 3
HDAL 5430 Legal and Ethical Issues .......................... 3
EDFN 5950 Methods of Research ........................... 3
Total Core Hours Required ...................................... 15

Concentration Requirements
HDAL 5420 Family Therapy I ...................................... 3
HDAL 5421 Family Therapy II ..................................... 3
HDAL 5422 Counseling with Couples ........................ 3
HDAL 5423 Postmodern Approaches to Family Therapy .... 3
HDAL 5440 Treating Trauma and Abuse in the Family .... 3
HDAL 5549 Substance Abuse: Counseling Individ. and Families  ....................................................... 3
HDAL 5570 Supervised Counseling Practicum ............. 3
In addition to submitting an application and an official transcript of all academic work previously completed, applicants must submit three letters of recommendation to the counseling program. After interviews, candidates will receive a letter ranking from the counseling program faculty. Candidates for consideration are expected to have a minimum total of 2500 points based on the following formula:

\[ \text{Total Score} = (\text{Verbal GRE score} + \text{Quantitative GRE score}) \times 100 + (\text{UGGPA} \times 400) \]

Students are responsible for being familiar with and following all graduate school admission and retention requirements as stated in the front section of this catalog and in the counseling graduate student handbook.

**Licensure Information**—In order to be eligible for Licensed Professional Counselor (LPC) status in Tennessee, applicants must have 60 credit-hours of coursework in counseling or a related field. Tennessee's licensure coursework requirement is 12 credit-hours beyond the 48 credit-hours required for graduation in any of the four (4) counseling concentrations. Thus, students ultimately seeking LPC licensure should note that additional courses will be required beyond those necessary to graduate with a Master of Arts degree in Counseling at ETSU. Many students delay graduation until 60 credit-hours are accumulated in order to maintain tuition scholarships, graduate assistantships, or paid internships—and in order to be license eligible with regard to coursework upon graduation. Delayed graduation is not required, however, and many other students choose to complete their licensure courses after graduation while being fully employed. In addition, it is highly recommended that those seeking an LPC obtain the Mental Health Service Provider (MHSP) designation that requires certain courses. Students should refer to the Counseling Program Handbook or contact their designated advisor for details on obtaining MHSP status.

**Program Admission Requirements**

Each applicant for admission to the Master of Arts degree in counseling program must meet the following criteria:

Applicants to East Tennessee State University's graduate program in counseling must be a graduate of a regionally accredited college or university. In addition to submitting an application and an official transcript of all academic work previously completed, applicants must submit three letters of reference and their general aptitude scores from the Graduate Record Exam (GRE). After a review of the application materials, applicants whose documents indicate a potential for success will be invited for an interview with the counseling program faculty. Candidates for consideration are expected to have a minimum total of 2500 points based on the following formula:

1. Faculty's assessment of interpersonal skills and aptitude for counseling;
2. Level of GRE performance;
3. Undergraduate Grade Point Average (GPA);
4. Undergraduate institution;
5. Undergraduate field of study;
6. Performance in previous graduate level study;
7. Related counseling work experience
   a. Past and current positions
   b. Years of experience
   c. Scope and variety of experiences
8. Other evidence of success in academic and professional endeavors
9. Motivation for graduate study

Under the preceding procedures, factors given consideration in the admission decision include the following:

- Faculty's assessment of interpersonal skills and aptitude for counseling;
- Level of GRE performance;
- Undergraduate Grade Point Average (GPA);
- Undergraduate institution;
- Undergraduate field of study;
- Performance in previous graduate level study;
- Related counseling work experience
- a. Past and current positions
- b. Years of experience
- c. Scope and variety of experiences
- Other evidence of success in academic and professional endeavors
- Motivation for graduate study

Applicants who are otherwise qualified for admission may not be admitted based on program enrollment and limited resources, or determination of suitability by the faculty.

---

**Master of Arts in Criminal Justice and Criminology**

**Graduate School Contact:**
Gail Powers; powers@etsu.edu; 423-439-4703

**John T. Whitehead, Ph.D., Chair**
201 Rogers-Stout Hall
Box 70555
(423) 439-5604
e-mail: whitehje@etsu.edu

**Steven J. Ellwanger, Ph.D., Graduate Coordinator**
201G Rogers-Stout Hall
Box 70555
(423) 439-4671
e-mail: ellwanger@etsu.edu

**Faculty:**
Michael Braswell; Steve Ellwanger; Wayne Gillespie; Larry Miller; Leonore Simon; John Whitehead.

The Department of Criminal Justice and Criminology offers the Master of Arts degree, which is designed to enhance student understanding of crime, societal reaction to crime, and efforts to control it. It prepares the student for advancement in criminal justice professions, teaching at the community college level, and study at the doctoral level.

**Program Admission Requirements**

Admission decisions are based on the applicant's combined verbal and quantitative scores on the GRE and the applicant's undergraduate grade point average. For example, an undergraduate grade point average of 3.00, a combined score of 850 on the verbal and quantitative portions, as well as a 3.00 on the writing section of the GRE are sufficient for admission to the graduate program.
from the program.

examination will be final; students failing the third attempt will be dismissed
prior to a final examination attempt. Any third attempt at the comprehensive
during the summer. In the event of a second failure of any exam area(s), the
no sooner than one (1) semester later. Examinations are not administered
comprehensive examination will be permitted to reschedule the examination
the student must apply to take the examination by the end of the third week of the fall or spring semester in which the examination is to be administered. Students failing any part of the
comprehensive examination will be permitted to reschedule the examination
no sooner than one (1) semester later. Examinations are not administered
during the summer. In the event of a second failure of any exam area(s), the
student will be required to repeat coursework supporting those failed areas
prior to a final examination attempt. Any third attempt at the comprehensive
examination will be final; students failing the third attempt will be dismissed
from the program.

Forensic Document Examination Graduate Certificate

John T. Whitehead, Ph.D., Chair
201 Rogers-Stout Hall
Box 70555
(423) 439-5604
email: whitehej@etsu.edu

Steven J. Ellwanger, Ph.D., Graduate Coordinator
201G Rogers-Stout Hall
Box 70555
(423) 439-4671
e-mail: ellwange@etsu.edu

Faculty:
Michael Braswell; Steve Ellwanger; Wayne Gillespie; Larry Miller; Leonore Simon; John Whitehead; Marian Whitson.

The Department of Criminal Justice and Criminology offers a graduate certificate in Forensic Document Examination. Students completing this certificate will have gained knowledge in handwriting identification, print process identification, and the court system in the United States allowing them to seek employment and become certified as forensic document examiners.

Program of Study

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJCR 5100</td>
<td>Forensic Document Examination</td>
<td>3</td>
</tr>
<tr>
<td>CJCR 5120</td>
<td>Forensic Handwriting Identification</td>
<td>3</td>
</tr>
<tr>
<td>CJCR 5130</td>
<td>Forensic Document Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CJCR 5140</td>
<td>Forensic Document Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours Required Degree: 33-36

Non-Thesis Option—Students must successfully pass a comprehensive examination. The examinations will consist of written essays graded by the graduate faculty of the department. Students who have completed 27 credit-hours and ALL core courses within the program of study are eligible to take the comprehensive examination. The student must apply to take the examination by the end of the third week of the fall or spring semester in which the examination is to be administered. Students failing any part of the comprehensive examination will be permitted to reschedule the examination no sooner than one (1) semester later. Examinations are not administered during the summer. In the event of a second failure of any exam area(s), the student will be required to repeat coursework supporting those failed areas prior to a final examination attempt. Any third attempt at the comprehensive examination will be final; students failing the third attempt will be dismissed from the program.

Doctor of Philosophy in Early Childhood Education

Pamela Evanshen, Ed.D., Graduate Coordinator, Ph.D. Program
301B Warf-Pickle Hall
Box 70548
Phone: (423) 439-7694, FAX (423) 439-7790
Email: evanshep@etsu.edu

Faculty:
Jane Broderick; Pam Evanshen; Lissy Gloeckler; Kim Hale; Rebecca Isbell; Amy Malkus, Kathryn Sharp.

Admission Requirements: Applications to the Ph.D. in Early Childhood Education are evaluated once each year for admission in the fall semester. All application information must be received by March 15th for a student to be considered for admission. Students will be admitted on a competitive basis. Admission to the Ph.D. in Early Childhood Education program has the same requirements as existing graduate school requirements plus additional specific requirements (in italics):

1. Application fee.
2. Application form.
3. One official transcript of all previous undergraduate and graduate work.
4. Personal resume.
5. A personal essay that includes a written statement of career and educational goals, professional experience, and area of interest for the dissertation.
6. Submit official scores on the Graduate Record Examination (GRE) taken within the past 5 years, except for those with a prior doctoral degree from an accredited institution within the United States. The preferred scores are 50th percentile or higher for verbal and quantitative sections.
7. Four letters of recommendation.
8. A master's degree in Early Childhood Education or a related field from an accredited university or early intervention, or early childhood leadership.
9. An interview by members of the admission committee, when warranted.

Graduation Requirements: Completion of the Ph.D. in Early Childhood Education includes all of the following:

1. A minimum of 69 semester credit hours of coursework beyond the master's degree.
2. A minimum cumulative grade point average of 3.0 on a 4.0 scale.
3. Completion of a required research apprenticeship and at least one of the additional apprenticeship options (university teaching, development of teachers, early intervention, or early childhood leadership).
4. Passing the doctoral comprehensive candidacy examination.
5. Completion of a dissertation of publishable quality.
6. Passing the final dissertation defense.

A student in the Early Childhood Ph.D. program shall have seven calendar years from the date of initial registration to complete and successfully defend a dissertation. All students must have Institutional Review Board approval by ETSU.

Major Field Core Requirements
ECED 6100 Historical and Theoretical Basis 3
for Early Childhood Education
ECED 6200 Implications and Current Trends in 3
Typical and Atypical Development of Young Children
ECED 6300 Social and Cultural Diversity in 3
Children and Their Families
ECED 6400 Seminar in Professional Development 3
and Leadership
Total Major Field Core Hours 12
Concentration Requirements (Specialization)
ECED 6600 Processes of Language and 3
Literacy Learning
ECED 6610 The Teaching and Learning 3
Environment: Impact on Children, Families, and Teachers
ECED 6620 Leadership Roles, Administration, 3
and Supervision in Early Childhood Education
ECED 6630 Paradigms of Inquiry Based 3
Constructivism
ECED 6640 Critical Analysis of Brain Research 3
and Creative Theory
Total Specialization Hours 15
Electives
The three collateral courses must be taken in the same academic area, as determined by the student and doctoral advisor.
Total Elective Hours 9
Apprenticeship
Choose one (1) or two (2):
ECED 7001 University Teaching 3
ECED 7002 Development of Teachers 3
ECED 7003 Early Intervention 3
ECED 7004 Early Childhood Leadership 3
Total Apprenticeship Hours 3-6
Research
ELPA 7810 Educational Statistics 3
ELPA 7811 Quantitative Research 3
ELPA 7812 Qualitative Research 3
ECED 7814 Analysis and Interpretation of 3
Research Designs
ECED 7000 Apprenticeship in Research 3
Faculty member oversees apprenticeship
ECED 7950 Advanced Research in Early 3
Childhood and Seminar
ECED 7960 Dissertation 12
ECED 7990 Readings and Research 1-3 (variable credit, if needed)
Total Research Hours 30
Total for Ph.D. degree 69-72

The Department of Human Development and Learning offers three Master of Arts degrees in early childhood education. These graduate programs provide specialized education preparation for those interested in young children's development from birth to eight years of age and their families. They focus on promoting the optimal developmental environment for young children, birth to eight years of age. The Master of Arts in Early Childhood Education - Initial Licensure leads to licensure in PreK-3 in Tennessee. The Master of Arts in Early Childhood Education - Master Teacher and Researcher/Thesis programs train for leadership roles in early childhood education, teaching in quality programs for young children, administering programs, working with families, community services, and instruction at the community college level.

Admission Requirements
Each applicant to the graduate program in early childhood education must complete the following:
1. Complete all the requirements for admission to the School of Graduate Studies.
2. Present a minimum of a 3.0 undergraduate grade point average or complete a probationary period in which the student achieves a grade point average of 3.0 and no grade lower than a B in the first 9 credits of graduate credit.
3. Be reviewed by the Early Childhood Admission committee. Those who do not have an undergraduate degree in early childhood education or a related field of study may be required to take selected undergraduate courses that will strengthen the applicant's background in early childhood education.

The Early Childhood Core
The core courses are required of all candidates for the M.A. degree in early childhood education. These courses are designed to provide a foundation of knowledge concerning the young child birth - eight years of age. The core includes the study of typically developing children (birth - eight), their unique learning abilities, history and philosophy of early childhood education, parental influence, designing environments, and research methods.

Concentrations and Electives
The concentration and electives are chosen with the approval of the student's advisor and provide for the individualization of the student's program. These specialized courses can follow the student's individual needs and interests in a variety of areas including: working with infants and toddlers, working with parents, directing programs, designing effective curriculum for young children, teaching kindergarten and primary grades/licensure in PreK-3, and other areas that relate to young children.

M.A. in Early Childhood Teaching
(Initial licensure in PreK-3) (INLI)
This graduate program is designed for students who have undergraduate majors in fields other than early childhood education. The concentrated master's degree in early childhood teaching includes 15 credits of professional core and 24 credits of early childhood courses that focus on language development, technology and media, creative arts, assessment, curriculum development, and parent involvement. It also includes courses in special education, science, and mathematics. This combination of courses must be taken to meet state competencies in early childhood for PreK-3 licensure. In addition, students will be required to complete a 9-hour student teaching and seminar in PreK-K and 1-3. The PRAXIS II requirements from the State of Tennessee must be completed before student teaching. Students completing this comprehensive program and supervised student teaching will be highly trained early childhood teachers.
Graduate students seeking PreK-3 licensure must be admitted to the Teacher Education program. They must file a Declaration of Intent with the college's Office of Student Services, receive a passing score on the PRAXIS I, a composite score of 22 on the ACT, or a composite score of 1020 on the SAT. The Early Childhood Admission Committee, which is recommended by an Admissions Board, and complete all other requirements for admission to teacher education.

Professional Core Requirements
ECED 5330 History & Philosophy of Early 3
Childhood Education
ECED 5210 Advanced Child Development 3
ECED 5344 Family & Community Relations 3
ECED 5332 Designing Early Childhood Environments 3
EDFN 5950 Methods of Research 3
Total Professional Core Hours 15
Additional Requirements for Licensure
(For candidates NOT previously certified PreK-3)
ECED 5167 Constructivist Approach to Science/Math 3
ECED 5335 Assessing & Evaluating Young Children 3
ECED 5336 Advanced Creative Development 3
ECED 5336 Language & Literacy Development of 3
Young Children
ECED 5347 Technology and Media in Early 3
Childhood Education
ECED 5417 Curriculum Development for Young Children 3
ECED 5517 Family-School-Community 3
SPED 5500 History, Issues, & Trends in Educating 3
Exceptional Learners
Total Additional Hours 24
Student Teaching
The student teaching experience will be designed to ensure that the graduate student has supervised experiences in both PreK-K and Grades 1-3.
ECED 5580 Student Teaching & Seminar in Early 9
Childhood Education (PreK-3)
East Tennessee State University

Total for Initial Licensure .............................................. 48

Master of Arts in Early Childhood Education
(Master Teacher MTEA)

Professional Core Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECED 5330</td>
<td>History &amp; Philosophy of Early</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Childhood Education</td>
<td></td>
</tr>
<tr>
<td>ECED 5210</td>
<td>Advanced Child Development</td>
<td>3</td>
</tr>
<tr>
<td>ECED 5344</td>
<td>Family &amp; Community Relations</td>
<td>3</td>
</tr>
<tr>
<td>ECED 5332</td>
<td>Designing Early Childhood Environments</td>
<td>3</td>
</tr>
<tr>
<td>EDFN 5950</td>
<td>Methods of Research</td>
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</tr>
</tbody>
</table>

Total Professional Core Hours .................................. 15

Concentration

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ECED 5167</td>
<td>Constructivist Approach to Science/Math</td>
<td>3</td>
</tr>
<tr>
<td>ECED 5335</td>
<td>Assessing &amp; Evaluating Young Children</td>
<td>3</td>
</tr>
<tr>
<td>ECED 5345</td>
<td>Research in Early Childhood</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Concentration Hours ...................................... 9

Guided Electives

(Choose nine (9) credit hours from the following with prior approval of the student’s graduate advisor.)

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ECED 5257</td>
<td>Mentoring in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>ECED 5331</td>
<td>Infancy</td>
<td>3</td>
</tr>
<tr>
<td>ECED 5332</td>
<td>Designing Early Childhood Environments</td>
<td>3</td>
</tr>
<tr>
<td>ECED 5333</td>
<td>Processes of Learning in Infants &amp; Young Children</td>
<td>3</td>
</tr>
<tr>
<td>ECED 5334</td>
<td>Social Development of Young Children</td>
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<td>Advanced Creative Development</td>
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<td>Technology &amp; Media in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>ECED 5352</td>
<td>Theories of Play</td>
<td>3</td>
</tr>
<tr>
<td>ECED 5356</td>
<td>Language &amp; Literacy Development of Young Children</td>
<td>3</td>
</tr>
<tr>
<td>ECED 5357</td>
<td>Management &amp; Administration of Early Childhood Programs</td>
<td>3</td>
</tr>
<tr>
<td>SPED 5500</td>
<td>History, Issues, &amp; Trends in Educating</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Elective Hours ............................................. 9

Culminating Experience

The candidate must complete a supervised practicum in an early childhood setting.

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>ECED 5570</td>
<td>Practicum in Early Childhood Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Total for M.A. degree (Master Teacher) .................................. 36

Master of Arts in Early Childhood Education (Researcher/Thesis RSEA)

Professional Core Requirements

<table>
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<tr>
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</tr>
<tr>
<td>EDFN 5950</td>
<td>Methods of Research</td>
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</tr>
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</table>

Total Professional Core Hours .................................. 15

Concentration

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</tr>
<tr>
<td>ECED 5345</td>
<td>Research in Early Childhood</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Concentration Hours ...................................... 9

Guided Electives

(Choose six (6) credit hours from the following with prior approval of the student’s graduate advisor.)

<table>
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<td>Social Development of Young Children</td>
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<td>Theories of Play</td>
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<td>ECED 5356</td>
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</tbody>
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Young Children

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECED 5357</td>
<td>Management &amp; Administration of Early Childhood Programs</td>
<td>3</td>
</tr>
<tr>
<td>SPED 5500</td>
<td>History, Issues, &amp; Trends in Educating</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Elective Hours ............................................. 6

Culminating Experience

The candidate must complete a supervised practicum in an early childhood setting.

HDAL 5960 Thesis ............................................. 3

Total for M.A. degree (Master Teacher) .................................. 33

Master of Arts in Early Childhood Education Cohort Program

Beginning in the fall semester, a cohort of students interested in securing a master’s degree in Early Childhood Education is established. This cohort is specifically designed for individuals who are already certified in early childhood education, and who are interested in a master's degree that can be obtained during a 4-semester plus one summer time period.

The core and concentration course requirements are the same as those required for the M.A. in Early Childhood - Master Teacher Program. The elective courses include the following:

<table>
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</tr>
</tbody>
</table>

Those currently holding a Tennessee license may also enroll in the cohort to complete add-on PreK-3 requirements

Educational Leadership and Policy Analysis

Graduate School Contact:
Cindy Hill; bhillce@etsu.edu; (423) 439-6590
Dr. Hal Knight, Dean of the Clemmer College of Education
319 Warf-Pickel Hall
Box 70685
(423) 439-7616
e-mail: knighth@etsu.edu

Pam Scott, Department Chair
506 Warf-Pickel Hall
Box 70550
(423) 439-7618
e-mail: scottp@etsu.edu

James Bitter, Ed.D., Graduate Coordinator, Counselor Leadership
304 Warf-Pickel Hall
Box 70548
(423) 439-4190
e-mail: hitteri@etsu.edu

Virginia Foley, Graduate Coordinator, Teacher Leadership
502 Warf-Pickel Hall
Box 70550
(423) 439-7615
e-mail: foleyv@etsu.edu

Eric Glover, Graduate Coordinator, Administrative Endorsement
501B Warf-Pickel Hall
Box 70550
(423) 439-7566
e-mail: glovere@etsu.edu

Jim Lampley, Graduate Coordinator, Postsecondary and Private Education
504 Warf-Pickel Hall
Box 70550
(423) 439-7619
e-mail: lampley@etsu.edu

Faculty:
The Department of Educational Leadership and Policy Analysis has as its primary purpose the graduate preparation of individuals who will serve as educational leaders in K-12 schools, community/technical colleges, four-year colleges and universities, and other organizations/ agencies that offer educational programs and services. Programs in the department are approved by the Tennessee Department of Education. Programs leading to licensure are also approved by the National Council for the Accreditation of Teacher Education (NCATE). Student programs are individually designed to develop educational leaders through the study and practical application of educational foundations, theory, research, and field work.

Three degree programs are offered in the department, each of which has a unique emphasis: (1) doctor of education degree (Ed.D.) involving advanced study in educational leadership that culminates in the completion of a doctoral dissertation in the field of educational leadership, (2) specialist in education degree (Ed.S.) that provides advanced preparation in educational leadership, and (3) master’s degree (M.Ed.) program in educational leadership that leads to Beginning Administrator Licensure (Pre-K-12) from the Tennessee Department of Education.

Doctor of Education
(Educational Leadership)
Program Admission Requirements

The Department of Educational Leadership and Policy Analysis offers four (4) concentrations leading to the Doctorate in Education (Ed.D.) degree: School Leadership, Classroom Leadership, Postsecondary and Private Sector Leadership, and Administrative Endorsement. The programs are designed to allow the student and advisor considerable latitude in program planning. The following pages summarize the components of these concentrations. Applicants should refer to the sections on admission to the School of Graduate Studies, transfer of credit, and time limitations outlined in the front section of this catalog. All applicants must submit a current résumé with their application. Those applying to the Administrative Endorsement or Classroom Leadership concentration must also submit a copy of their teaching certificate(s).

The Screening Process—All students who apply to the School of Graduate Studies for the Doctor of Education degree must be screened for initial admission. The screening process consists of an evaluation of each student in terms of selected criteria for admission. Each criterion has been assigned a numerical value. The total of these values equals a possible 100 points:

1. Writing Skills .................................................. 10 points
2. Scholarship (Graduate Level) ................................ 15 points
3. Speaking Skills .................................................. 10 points
4. Evidence of Leadership (to date) ............................ 10 points
5. Estimated Leadership Potential ............................ 10 points
6. Graduate Record Examination ............................. 15 points
   (GRE scores—Verbal and Quantitative)
   (The scores must be obtained within 5 years of date of application.)
7. Employment Record ........................................... 10 points
8. Four Letters of Recommendation ........................... 20 points

Uniform evaluation sheets are utilized by an appointed screening committee upon completion of the screening process the departmental committee will make a recommendation to the School of Graduate Studies. Potential students seeking the Ed.D. in the Administrative Endorsement concentration must demonstrate the ability to achieve Tennessee Standards for Administrative Endorsement.

Program Requirements

Advisory Committee—Each student who has achieved admission to the Doctor of Education program in Educational Leadership will be assigned an advisor. Each student’s advisor will explain the process of dissertation chair selection. Prior to filing a program of study, the student’s committee will be increased to four (4) members, with the student and the committee chair agreeing upon the members to be added to the committee.

The Qualifying Examination—The examination will be written and oral and will be administered by the student’s graduate committee after the student has completed most of the planned program. If and when the qualifying examination is favorably reported to the program coordinator and the deans of the College of Education and the School of Graduate Studies, the student may make application for candidacy for the doctorate through the College of Education and the School of Graduate Studies.

The Final Examination—The examination will be oral and will be principally devoted to an evaluation and defense of the student’s doctoral dissertation. A member of the graduate faculty, from outside the candidate’s committee and department, is assigned by the School of Graduate Studies to monitor the process. The procedure to be followed in scheduling an oral defense and format for the graduate faculty representative’s narrative report are available from the School of Graduate Studies.

Regulations and Procedures Related to Student Assessment

A student must complete nine (9) to twelve (12) hours of coursework before submitting a program of study for approval. The determination of the appropriate semester for a qualifying examination is a matter to be decided between the student and the advisor, but it should come after the student has completed all of the coursework. After the qualifying exam, each student must be registered for a minimum of three (3) hours each semester (spring, summer, and fall semesters). All qualifying examinations (written and oral) are to be taken at the appropriate time scheduled by the department. Students will not be allowed to complete a program during the same semester in which they are formally admitted to doctoral candidacy, nor will they be allowed to register for more than nine dissertation credits in a semester. Students may not defend the dissertation in the same semester that they present the prospectus.

The dissertation must be presented to committee members in final form at least two weeks prior to the final defense. The final oral examination will be a defense of the finished research report after the dissertation has been accepted for presentation by the student’s graduate committee. The dissertation must be approved by the deans of the College of Education and the School of Graduate Studies.

Requirements for Completion of Degree—The central idea of the doctoral program is the development of competence in the areas of greatest significance to educational leaders. Because of this, course requirements are described as blocks or components in the total program of the student. Each student’s total program will be determined upon the basis of four (4) factors:
1. training and coursework completed prior to admission to advanced study;
2. intended area of work as a professional;
3. success in coursework and other experiences in the early parts of the program; and
4. competence in the various areas of study as assessed and evaluated by the graduate committee in written and/or oral examinations.

In the final analysis, because each student’s graduate committee is responsible for the evaluation of student competence, work may be prescribed beyond these requirements.

Residency Requirements for Doctorate

A “Declaration of Intent to Establish Residency,” approved by the student’s advisor prior to the beginning of the residency period, must be filed with the deans of the College of Education and the School of Graduate Studies, the department, and the chair of the student’s graduate advisory committee. Subsequently, students should consult with their advisor on residency. Four (4) options for fulfilling the residency requirements have been approved.

1. A residency of two (2) consecutive semesters, during which the student must not be employed more than half time.
2. A residency of two (2) consecutive semesters, which shall include one semester of not more than half-time employment and one (1) with no employment restrictions.
3. A residency of four (4) consecutive summer semesters (including one Pre-Summer), during which time the student may not work.
4. A “continuous” residency that requires each student to be continuously enrolled in the program (spring and fall semesters) from the time of the student’s initial course in the program until the qualifying examination is completed.

Each student, regardless of the residency option selected, must receive prior approval of a residency plan by the student’s advisor. Each student
must complete the required ten (10) approved residency activities and submit portfolio documentation of the completion to the advisory committee chair.

Fulfillment of the residency requirements will be reported to the deans of the College of Education and School of Graduate Studies.

Any modification of the residency plan must be approved, in writing, by the student's graduate advisory committee chair.

**Dissertation**—Each doctoral candidate must complete a dissertation as a major requirement for the Ed.D. degree. The dissertation topic will be selected by the candidate with the advice and approval of the student's committee. The student must present a proposal, describing the research project, for review and approval by the committee. All dissertation proposals must be reviewed and approved by the ETSU Institutional Review Board (IRB) before data are collected. Each doctoral candidate must register for a minimum of three (3) semester hours of ELPA 7960 each semester, including summer, until completing the required twelve (12) hours of dissertation credit-hours.

As explained in the catalog description for ELPA 7990-Readings and Research, doctoral candidates who have already taken the required number of dissertation hours stipulated on their program of studies MUST register for a minimum of three (3) semester hours of ELPA 7990 each semester, including summer, until they have successfully defended their dissertations.

After the dissertation research has been conducted and the results have been analyzed, written, and accepted by the advisory committee, the dissertation must be processed in the proper electronic format and submitted to the Dean of the School of Graduate Studies for approval within the established timeline. General guidelines on the form for the dissertation are available from the School of Graduate Studies.

**Final Assessment**—The evaluation of the work and potential of a student admitted to advanced graduate study leading to a degree is a function of the graduate committee, which will consider: (1) student's background when admitted to advanced study; (2) grade point average, which must meet the graduate committee, which will consider: (1) student's background when admitted to advanced study; (2) grade point average, which must meet the requirements for the graduate program; and (3) the defense of the dissertation.

To be awarded an Ed.D. degree, a student must be recommended by the graduate committee, whose chair will report that the student has fulfilled all of the requirements.

**Doctor of Education (Ed.D.) Program with School Leadership, Classroom Leadership, Postsecondary and Private Sector Leadership, and Administrative Endorsement Concentrations**

For students already possessing a valid master's degree, or equivalent, the minimum requirements for the doctoral program are for a 66 credit program which includes the following courses and activities:

- ELPA 7810 Educational Statistics ........................................ 3
- ELPA 7811 Quantitative Research ........................................ 3
- ELPA 7812 Qualitative Research .......................................... 3
- ELPA 7813 Research in Educational Leadership ..................... 3
- ELPA 6450 Leadership Studies ........................................... 3
- ELPA 6810 Theories of Educational Administration ............... 3
- ELPA 6581 Internship in Educational Leadership ................... 3
- ELPA 7960 Dissertation ................................................... 12

Six (6) semester credits in research, statistics, evaluation, or technology
Six (6) semester credits in a cognate area other than Educational Leadership
Six (6) semester credits of Foundations of Education, to include
EDFN 6730

Fifteen (15) semester credits of guided electives in Educational Leadership: in the Classroom Leadership Concentration, these must include ELPA 6558; in the Postsecondary and Private Sector Leadership Concentration these must include ELPA 6563, ELPA 7820 (or equivalent), and ELPA 7821 (or equivalent).

For qualified students already possessing valid master's degrees, or the equivalent, and seeking an Ed.D. degree leading to endorsement as a Beginning Administrator, the requirements are for a minimum program of 66 semester credits, to include:

- ELPA 7810 Educational Statistics ........................................ 3
- ELPA 7811 Quantitative Research ........................................ 3
- ELPA 7812 Qualitative Research .......................................... 3
- ELPA 7813 Research in Educational Leadership ..................... 3
- ELPA 6450 Leadership Studies ........................................... 3
- ELPA 6810 Theories of Educational Administration ............... 3
- ELPA 6581 Internship in Educational Leadership ................... 3
- ELPA 7960 Dissertation ................................................... 12

Thirty-six (36) semester credits of sequenced coursework and internship experience in Educational Leadership, to include ELPA 6100, 6200, 6300, 6400, 6500, and 6600.

For students holding master's degrees and educational specialist degrees, or their equivalents, the minimum requirements for the doctoral program would be for a 42 semester-credit program, to include the following:

- ELPA 7810 Educational Statistics ........................................ 3
- ELPA 7811 Quantitative Research ........................................ 3
- ELPA 7812 Qualitative Research .......................................... 3
- ELPA 7813 Research in Educational Leadership ..................... 3
- ELPA 6450 Leadership Studies ........................................... 3
- ELPA 6810 Theories of Educational Administration ............... 3
- ELPA 6581 Internship in Educational Leadership ................... 3
- ELPA 7960 Dissertation ................................................... 12

Twelve (12) credit-hours of guided electives for the educational leadership component of each of these concentration areas include the following courses; however, advisors may recommend substitutions of other courses that would better address individual students' needs in the area of educational leadership:

In the Classroom Leadership Concentration, this must include ELPA 6558.
In the Postsecondary and Private Sector Leadership Concentration this must include ELPA 6563, ELPA 7820 (or equivalent), and ELPA 7821 (or equivalent).

For qualified students already possessing valid specialist's degrees, or their equivalent, and seeking an Ed.D. degree leading to endorsement as a Beginning Administrator, the requirements are for a minimum program of 42 semester credits, to include:

- ELPA 7810 Educational Statistics ........................................ 3
- ELPA 7811 Quantitative Research ........................................ 3
- ELPA 7812 Qualitative Research .......................................... 3
- ELPA 7813 Research in Educational Leadership ..................... 3
- ELPA 6450 Leadership Studies ........................................... 3
- ELPA 6810 Theories of Educational Administration ............... 3
- ELPA 6581 Internship in Educational Leadership ................... 3
- ELPA 6100 Interpersonal Relations ..................................... 3
- ELPA 6200 Professional Needs of Individuals and Groups ........ 3
- ELPA 7960 Dissertation ................................................... 12

In order to meet the coursework requirements for certification, students in this program concentration area would also be required to take ELPA 6300, 6400, 6500, and 6600.

The guided electives for the educational leadership component of each of these concentration areas include the following courses; however, advisors may recommend substitutions of other courses that would better address individual students' needs in the area of educational leadership:

**School Leadership Concentration**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELPA 6030</td>
<td>Instructional Leadership</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6450</td>
<td>Leadership Studies</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6451</td>
<td>Strategic Planning &amp; School-Based Decision-Making</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6452</td>
<td>Creating Effective Organizational Cultures</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6453</td>
<td>Ethics for Educational Leaders</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6558</td>
<td>Innovative Practices in Classroom Leadership</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6561</td>
<td>Organizational Development</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6820</td>
<td>Law for Educational Leaders</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6830</td>
<td>School Housing &amp; Transportation</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6841</td>
<td>School Finance &amp; Business Methods</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6872</td>
<td>Technology Applications for Educational Leaders</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6953</td>
<td>Policy Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6954</td>
<td>Educational Program Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6955</td>
<td>Grant and Proposal Development</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6953</td>
<td>Policy Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EDFN 6730</td>
<td>Historical &amp; Philosophical Foundations of Education</td>
<td>3</td>
</tr>
</tbody>
</table>
Potential students seeking the Ed.S. in the Administrative Endorsement concentration must demonstrate the ability to achieve Tennessee standards for Administrative Endorsement.

### Concentration Requirements

A comprehensive examination is required of all students completing the Ed.S. program. Upon completion of the screening process, the departmental committee will make a recommendation to the School of Graduate Studies.

#### Field Experience — Field-based experiences will be required in a number of courses. Students enrolled in the Ed.S. program will be required to complete a major field project that results in a culminating experience such as the completion and presentation of an action research project, an evaluation project, or an in-depth study of a contemporary issue or practice in education. The Specialist Seminar (ELPA 6220) will provide a framework for the culminating experience. This seminar should not be taken before at least 24 semester credits have been completed in the Ed.S. program.

#### Evaluation — The evaluation of an advanced graduate student is a function of instructors and a graduate committee. The latter has full authority for program planning and the evaluation of written and/or oral final comprehensive examinations, provided that all university and departmental requirements have been met. Graduate committees will consider the student’s professional purposes and needs, progress in terms of individually planned programs, writing and speaking ability, general competence, apparent propriety for their intended profession, and state certification requirements. To be cleared for the award of the Educational Specialist degree, a student must be recommended by the graduate committee, whose chair will report to the deans of the College of Education and of the Graduate School, and the program coordinator that the student has fulfilled the requirements of the program.

#### Time Limits — Credit received beyond the master's degree and more than five (5) years prior to the awarding of the Ed.S. degree will not be accepted as part of the Ed.S. degree requirements.

#### Residency — One (1) semester or one (1) full summer of full-time residency is required. The student will, with the approval of the chair of the advisory committee, register for no less than six (6) semester credits of regular coursework during the residency period.

#### Degree Requirements — The basic requirement for an Ed.S. degree is a planned and approved program of coursework and other experiences, for which credit is awarded beyond the master's degree. The student must complete a minimum 31 credit-hours beyond the master's degree. Students must take coursework and prove competence in one of the four (4) concentrations. The credits indicated in each area of study, evaluation of the student's competence, and work may be prescribed beyond these requirements.

### Educational Specialist (Ed.S.) Program with Administrative Endorsement, Counselor Leadership, School System Leadership, and Teacher Leadership Concentrations

#### Core Requirements for All Concentrations

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELPA 6450</td>
<td>Leadership Studies</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6951</td>
<td>Seminar in Research Analysis and Interpretations</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6872</td>
<td>Technology Applications for Educational Leaders</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6220</td>
<td>Specialist Seminar</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total Core Hours</strong></td>
<td></td>
<td>7</td>
</tr>
</tbody>
</table>

#### Administrative Endorsement Concentration Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELPA 6100</td>
<td>Interpersonal Relations</td>
<td>6</td>
</tr>
<tr>
<td>ELPA 6200</td>
<td>Emerging Perspectives Influencing the School</td>
<td>6</td>
</tr>
<tr>
<td>ELPA 6300</td>
<td>Professional Needs of Individuals and Groups</td>
<td>6</td>
</tr>
<tr>
<td>ELPA 6400</td>
<td>Developing Leaders through Leadership</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Admin. Endorsement Hours</strong></td>
<td></td>
<td>24 Credit Hours</td>
</tr>
<tr>
<td><strong>Total Hours Required</strong></td>
<td></td>
<td>31 Credit Hours</td>
</tr>
</tbody>
</table>

In order to meet licensure requirements, students in this concentration are also required to take ELPA 6500 and 6600.

#### Counselor Leadership Concentration Requirements

*See Counselor Leadership Concentration Requirements*

#### School System Leadership Concentration Requirements

*Must include twelve (12) credits within each of two (2) areas of specialization for a total of 24 credit-hours.*

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### Postsecondary and Private Sector Leadership Concentration

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELPA 6105</td>
<td>Institutional Leadership</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6450</td>
<td>Leadership Studies</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6451</td>
<td>Strategic Planning &amp; School-Based Decision-Making</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6452</td>
<td>Creating Effective Organizational Cultures</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6453</td>
<td>Ethics for Educational Leaders</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6555</td>
<td>Reflective Practice I</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6556</td>
<td>Reflective Practice II</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6561</td>
<td>Organizational Development</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6872</td>
<td>Technology Applications for Educational Leaders</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6952</td>
<td>Action Research</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6954</td>
<td>Educational Program Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6955</td>
<td>Grant &amp; Proposal Development</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6953</td>
<td>Policy Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

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### Classroom Leadership Concentration

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELPA 6105</td>
<td>Instructional Leadership</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6450</td>
<td>Leadership Studies</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6451</td>
<td>Strategic Planning &amp; School-Based Decision-Making</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6452</td>
<td>Creating Effective Organizational Cultures</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6453</td>
<td>Ethics for Educational Leaders</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6555</td>
<td>Reflective Practice I</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6556</td>
<td>Reflective Practice II</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6561</td>
<td>Organizational Development</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6872</td>
<td>Technology Applications for Educational Leaders</td>
<td>3</td>
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<td>ELPA 6952</td>
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<td>Grant &amp; Proposal Development</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6953</td>
<td>Policy Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

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### Screening — Potential students will be notified of screening times. The screening process consists of an evaluation of each student in terms of selected criteria for admission. Each criterion has been assigned a numerical value.

The total of these values equals a possible 85 points.

1. Writing Skills .......................................................... 10 points
2. Scholarship (Graduate Level) ...................................... 15 points
3. Speaking Skills .......................................................... 10 points
4. Evidence of Leadership (to date) ..................................... 10 points
5. Estimated Leadership Potential ...................................... 10 points
6. Employment Record ................................................... 10 points
7. Four Letters of Recommendation .................................... 20 points

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<table>
<thead>
<tr>
<th>Criteria</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPA</td>
<td>20</td>
</tr>
<tr>
<td>Letters of Recommendation</td>
<td>20</td>
</tr>
<tr>
<td>Employment Record</td>
<td>10</td>
</tr>
<tr>
<td>Evidence of Leadership</td>
<td>10</td>
</tr>
<tr>
<td>Speaking Skills</td>
<td>10</td>
</tr>
<tr>
<td>Scholarship (Graduate Level)</td>
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</tr>
<tr>
<td>Writing Skills</td>
<td>10</td>
</tr>
<tr>
<td>Total</td>
<td>85</td>
</tr>
</tbody>
</table>
Counselor Leadership (Educational Leadership)

Janna Scarborough, Ph.D., Ed.S. in Counselor Leadership Coordinator
301a Warf-Pickel Hall
Box 70548
(423) 439-4191
e-mail: scarboro@etsu.edu

Together with the Educational Leadership program in ELPA, the Counseling Program offers an Educational Specialist (Ed.S.) concentration in Counseling Leadership. This 31 credit-hour program is designed to provide advanced, Post-Master’s training in counseling and consultation as well as leadership skills that will prepare professionals for administrative positions within various school systems and community agencies. The program is delivered to cohorts throughout the region with primary cohorts already established in Johnson City, Kingsport, and Sevierville, Tennessee. Those interested in applying for this program should contact Dr. Janna Scarborough at (423) 439-4191 and should review the application process for the Ed.S. listed in the ELPA programs in this catalog.

ELPA Core
ELPA 6220 Specialist Seminar ............................................. 1
ELPA 6450 Leadership Studies ............................................ 3
ELPA 6872 Technology Applications or ELPA 6951 Research Analysis and Interpretation .............................. 3
Total Required ELPA Core Hours .................................. 7

HDAL Core
HDAL 5563 Adv. Counseling Techniques with Children ......... 3
and Adolescents
HDAL 6563 Advanced Social/Cultural Foundations .......... 3
HDAL 6573 Consultation & Systemic Interventions .......... 3
HDAL 6585 Trauma and Recovery ...................................... 3
HDAL 6593 Advanced Internship ................................... 6
Total Required HDAL Credit Hours .......................... 18

Electives ............................................................................. 6
Total Required Hours for Ed.S. degree ......................... 31

Master of Education (Educational Leadership)

Program Admission Requirements

1. Individuals applying to the master’s degree program in educational leadership must meet the general requirements for admission to the School of Graduate Studies, transfer of credit, and time limitations specified in the front section of this catalog. In addition, applicants must meet the specific requirements for admission to the department identified in this catalog.

2. The applicant must have completed a minimum of three years of successful teaching experience P12 prior to admission.

3. Applicants for admission to programs leading to a master’s degree must show a minimum overall undergraduate GPA of 2.75 or an upper level GPA of 3.0 on a 4.0 scale. GPAs in professional education, psychology, and major field of study, calculated individually, must also be above 2.75. All exceptions to the 2.75 GPA for admissions must be approved on appeal.

4. Applicants may apply at any time during the year, although admission decisions will be made in the semester prior to the start of a new cohort program. This requires an October 1 application deadline for programs beginning in January, February 1 application deadline for programs beginning in May, and a May 1 application deadline for programs beginning in August.

5. Applicants must be admitted to the master’s degree program to receive credit toward the degree. Applicants for admission must demonstrate the ability to achieve Tennessee standards for administrative endorsements before being granted consideration for recommendation for public school certification.

6. Prior to being admitted, applicants must also submit:
   (a) a letter of support from the applicant’s superintendent or other comparable supervisor;
   (b) three (3) additional letters of recommendation;
   (c) a current résumé and license;
   (d) a copy of their teaching license.

7. Applicants will also be asked to participate in a personal interview.

Concentration Requirements

Cohort—All students in the Master of Education program in educational leadership will move through the degree program as part of a cohort group. Cohort students will begin the program in the same semester and continue through the program with the same group, taking one 6-hour credit course each succeeding semester until the program is completed. Applicants should contact the graduate coordinator of the ELPA master’s degree program for information about when a new cohort program will be starting.

Required Coursework—Graduate students admitted to the master’s degree program in educational leadership begin their program completing ELPA 5100: Interpersonal Relations. The required sequence of courses has been approved by the Tennessee Department of Education as meeting requirements for Beginning Administrator Endorsement.

ELPA 5100 Interpersonal Relations ........................................ 6
ELPA 5200 Emerging Perspectives Influencing the School .... 6
ELPA 5300 Professional Needs of Individuals & Groups ..... 6
ELPA 5400 Developing Learners through Instructional Leadership ............................................. 6
ELPA 5500 Implementation Strategies: Making It Happen ... 6
ELPA 5600 Shaping the Quality and Character of the Institution ............................................. 6
EDFN 5010 Interdisciplinary Seminar ............................... 1
Total Required Coursework ............................................ 37 Credit Hours

Portfolio Development—While in the program students will develop a professional portfolio, the presentation and committee review of which will serve as a culminating experience. Development of the portfolio provides each student with opportunities for reflection and self-evaluation. The portfolio also serves to spotlight skills and accomplishments that will be of interest to future employers. Specific information on the required elements for the portfolio may be obtained from the Graduate Coordinator.

Performance Assessment—Students in the master’s degree program in educational leadership will be engaged in assessments that are based on the
NCATE and Tennessee standards underlying the thematic core curriculum. These assessments will include written examinations, videotaped performances, materials development, research projects, internship performance, and oral presentations.

Beginning Administrator License — The applicant for beginning administrator must have completed the approved master's degree program in educational leadership. The applicant must successfully pass the examination required by the Tennessee Department of Education.

### Educational Media and Educational Technology

**Master of Education (M.Ed.) in Educational Media and Educational Technology**

**Graduate School Contact:**
Robin O’Dell; odell@etsu.edu; 423-439-6148

**Educational Technology**

H. Lee Daniels, Ph.D., Graduate Coordinator
402 Warf-Pickel
Box 70684
(423) 439-7843
e-mail: danielsh@etsu.edu

**School Library Media**

Linda Steele, M.L.S., Graduate Coordinator
416 Warf-Pickel
Box 70684
(423) 439-7851
e-mail: steelel@etsu.edu

**Faculty:**

H. Lee Daniels; Rhona Hurwitz; Leslie Perry; Elizabeth Ralston; Linda Steele.

The program of Educational Media and Educational Technology offers a Master of Education degree in Educational Media and Educational Technology with concentrations in educational communications and technology or school library media. The School Library Media Concentration (SLIB) prepares candidates to become certified as school library media specialists to serve in K-12 schools. The SLIB curriculum is aligned with the standards of the American Library Association, American Association of School Librarians, and the State of Tennessee licensure standards. The purpose of the educational communications technology concentration is to meet the needs of educators. The concentration’s main thrust is a systematic approach to the principles of instructional design, production and management of learning resources, and application of technology to the teaching/training domains. Additional information may be obtained from the department chair and/or program coordinator.

**Program Admission Requirements**

Students seeking admission to the Educational Media and Educational Technology Program must first meet the general requirements of the School of Graduate Studies and the Department of Curriculum and Instruction. If GPA is below a 3.0, the GRE is required. Obtaining a minimum of 2400 points based on the following formula:

1. Sum of the GRE aptitude score (V+Q+A)
2. GPA 500, and
3. The sum of (1) and (2)

An oral or written interview may be requested by the program chair, in specific cases.

**Matriculation**

The coordinator of the program to which the prospective candidate has been admitted serves as the initial advisor. Students who anticipate candidacy for a degree are strongly encouraged to take courses based on guidelines provided by their advisors. Merely taking a collection of courses is not the same as matriculating within a program leading to a graduate degree. A comprehensive oral examination is required of all students completing graduate programs in school library media education. Presentation of a Professional Portfolio is required part of the oral examination.

**Educational Communications and Technology Concentration**

**Core Requirements**

- MEDA 5000 History and Philosophy of Educational Technology  .................................. 3
- MEDA 5400 Integrating Technology in Teaching and Learning ........................................ 3
- MEDA 5700 The Instructional Role of Educational Technology .................................... 3
- MEDA 5950 Research in Educational Media and Technology .................................. 3

**Total Core Requirements .......................... 13 Credit Hours**

**Educational Communications and Technology Concentration**

**Core Requirements**

- MEDA/CSCI 5520 Essentials of Multi-Media ................................................ 3
- MEDA 5530 Computer-Based Authoring Systems ............................................... 3
- MEDA 5680 Organization and Administration of Instructional Technology Programs .... 3
- MEDA 5800 Information Networks - Resource Sharing ........................................... 3
- MEDA 5850 Organizing and Managing Content on the Internet ......................... 3

**Guided Elective .................................................. 3**

**Total Hours Required for Degree ....................... 36**

**School Library Media Concentration**

**Core Requirements**

- MEDA 5000 History and Philosophy of Educational Media and Technology ............... 3
- MEDA 5400 Integrating Technology in Teaching and Learning ............................... 3
- MEDA 5530 Computer-Based Authoring Systems ............................................... 3
- MEDA 5680 Organization and Administration of Instructional Technology Programs .... 3
- MEDA 5720 Organization of Library Media .......................................................... 3
- MEDA 5925 Practicum/Internship/Enhanced Student Teaching .................................. 5

**Guided Elective .................................................. 3**

**Total Hours Required for Degree ....................... 36**

**School Library Professional Certificate**

The program of Educational Media and Educational Technology offers a “School Library Professional” certificate to qualified candidates who have a master’s degree from an accredited institution and who hold a valid Tennessee teacher license may take 26 credit hours of approved classes to meet the current school licensure requirements for Tennessee endorsement School Library Specialist #473. Because courses are arranged sequentially and may only be offered once each year, students would complete all classes successfully in the previous term before advancing to the next term.

**Core Requirements**

- MEDA 5000 History and Philosophy of Educational Media and Technology ............... 3
- MEDA 5400 Integrating Technology in Teaching and Learning ............................... 3
- MEDA 5530 Computer-Based Authoring Systems ............................................... 3
- MEDA 5680 Organization and Administration of Instructional Technology Programs .... 3
- MEDA 5720 Organization of Library Media .......................................................... 3
- MEDA 5925 Practicum/Internship/Enhanced Student Teaching .................................. 5

**Total Graduate Credit Hours ................. 26**

At the completion of the coursework, students would follow the current state requirement of taking Praxis Test #0311 “School Library Specialist” and apply for add-on status to their current teaching licensure.

**Elementary Education**

**Master of Education in Elementary Education**

**Graduate School Contact:**
Robin O’Dell; odell@etsu.edu; 423-439-6148

**Leslie Perry, Ph.D., Graduate Coordinator**
404 Warf-Pickel Hall
Box 70684
II. Professional Development Courses

III. Content Courses

Content courses are selected from areas of study related to elementary teaching and must be approved by the advisor.

Total Content Hours .................................................. 6
Total Hours Required for Degree ....................... 37

See Curriculum and Instruction (CUAI), Educational Foundations (EDFN), Media (MEDA), and Reading (READ) sections for course descriptions.

English

Master of Arts in English

Graduate School Contact:
Gail Powers; powers@etsu.edu; 423-439-4703
Shawna Lichtenwalner, Ph.D., Graduate Coordinator
408 Burleson Hall
Box 70683
(423) 439-993
e-mail: lichtenw@etsu.edu

Judith Slagle, Ph.D., Chair
103B Burleson Hall
Box 70683
(423) 439-4339
e-mail: slagle@etsu.edu

Faculty:
Jennifer Barker; Jeffrey Beck; Karen Cajka; Michael Codly; Thomas Crofts; Susan Dyer; Yousif Elhindi; Ronald Giles; Darryl Haley; Roberta Herrin; Mark Holland; Thomas Alan Holmes; Mary Hurd; Donald Johnson; Karen Kornweibel; Shawna Lichtenwalner; Theresa Lloyd; Theresa McGarry; Martha Michieka; John Morefield; Kevin O’Donnell; Robert Sawyer; Judith Slagle; Isabel Stanley; Phyllis Thompson; Frederick Waage; Katherine Weiss.

The Department of English offers a Master of Arts degree in English with a general grounding in both British and American literature, in addition to a selection of courses in creative writing, rhetoric, linguistics, continental literature, and English education.

Program Admission Requirements

A student applying to the graduate program in English should have:
1. An undergraduate English major with at least a 3.0 GPA (on a 4.0 scale).
2. Satisfactory scores on the Graduate Record Examination (GRE) aptitude test.
3. Three (3) letters of recommendation.

Applicants for graduate assistantships should submit a writing sample of at least ten (10) pages. For information on the graduate certificate in Teaching English to Speakers of Other Languages, see the alphabetic listing later in the catalog.

Anyone who does not meet these requirements may be admitted to the program conditionally upon the recommendation of the assistant chair for graduate studies in English and may be required to complete prescribed undergraduate courses without graduate credit. The student's background and experience will be considered.

Students elect to take the program with the option of writing or not writing a thesis. Because the program offers a broad-based degree, there is no concentration per se. Thirty (30) hours are required for the thesis option and 33 hours for the non-thesis option; at least 70 percent of the minimum required hours must be taken from courses for graduate students only. The following courses do not count for credit toward the degree: ENGL 5019, Supervised Experience in Teaching (required for all teaching assistants, who must register for this course when they take the practicum in teaching freshman composition).
during the semester of their first teaching assignment); ENGL 5029, Supervised Experience in Research (required for all research assistants); ENGL 5039, Supervised Experience in Administration (required for all administrative assistants). All students earning the Master of Arts in English must take the following core course:

ENGL 5950 Methods of Research ......................... 3 credits
All students who choose the thesis option must take:
ENGL 5960 Thesis in English .............................. 3 credits
All graduate assistants who will serve as teaching assistants must satisfactorily complete the course below during any semester before their first teaching assignment:

ENGL 5057 Writing-Theory and Teaching .................. 3 credits

Students choosing to write a thesis must complete 30 credit-hours (minimum) including ENGL 5950 and ENGL 5960. Students who choose not to write a thesis must complete 33 credit-hours (minimum), including ENGL 5950. All graduate assistants with teaching assignments must fulfill the condition for teaching assistants above. All courses not covered by the requirements and conditions herein stated may be chosen at the student's discretion with the guidance and advice of the department graduate coordinator.

To complete their degree work, all students must pass a comprehensive written exam covering material from their coursework, as well as texts from a reading list that will be made available to all students upon entry into the program. Students will be required to pass all sections to pass the exam. If a student fails only one question on the exam, however, the student can retake that section within 7-10 days in an oral exam format. This supplementary one-hour oral re-examination will be given by the professor who wrote the exam question and by another professor under the direction of the graduate coordinator. Students who do not pass the oral re-examination can take the entire exam one more time, but only when it is offered the following semester. Failure to pass the second examination will result in removal from the program.

Teaching English as a Second Language Certificate

Theresa McGarry, Ph.D., Coordinator
312 Burleson Hall
Box 70683
(423) 439-6680
email: mcgarry@etsu.edu

Judith Slagle, Ph.D., Chair
103B Burleson Hall
Box 70683
(423) 439-4339
email: slagle@etsu.edu

Faculty:
Yousif Elhindi; Theresa McGarry; Martha Michieka.

The department of English offers a graduate certificate in TESL that provides knowledge and skills necessary to teach English as a second language in a variety of settings beyond the public schools. The course enables students to understand the process of learning a second language, design and implement English courses that meet the needs of English learners in adult education programs and institutes of higher learning, develop a view of themselves as professionals in the specialized field of teaching English as a second language, and understand the basis of continuing professional development in this field.

Program Admission Requirements

A student applying to the TESL certificate program should have the following:
1. a bachelor’s degree with at least 3.0 GPA (on a 4.0 scale)
2. two years of coursework or basic proficiency in a foreign language
3. two letters of recommendation
4. satisfactory scores on the language section of the Graduate Record Examination (GRE) aptitude test.

A student who wishes to pursue an M.A. in addition to the certificate also needs to meet the requirements for admission to that program; admission into the certificate program does not entail admission into the M.A. program, even though many of the certificate courses can be applied to the M.A.

Curriculum

Students must complete a total of 18 credit hours, of which 15 will result from required courses (listed below) and three from one or more elective courses. A minimum grade of C is required in each course.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 4117</td>
<td>Grammar and Usage</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 5150</td>
<td>Sound Systems of English</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 5170</td>
<td>Teaching English as a Second Language</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 5180</td>
<td>Internship in Teaching English as a</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 5190</td>
<td>Second Language Acquisition</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Courses

Students must complete three credit hours from the list of courses below; other courses are acceptable if approved by the student’s advisor.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 5680</td>
<td>Seminar in Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 5950</td>
<td>Methods of Research</td>
<td>3</td>
</tr>
<tr>
<td>HDAL 5200</td>
<td>Advanced Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>HDAL 5356</td>
<td>Language Development in Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>MEDA 5696</td>
<td>Application of Instructional Technology</td>
<td>3</td>
</tr>
<tr>
<td>CUAI 4437/4537</td>
<td>English as a Second Language (ESL)</td>
<td>2</td>
</tr>
<tr>
<td>CUAI 4447/4547</td>
<td>English as a Second Language (ESL)</td>
<td>2</td>
</tr>
<tr>
<td>CUAI 4457/4567</td>
<td>English as a Second Language (ESL)</td>
<td>2</td>
</tr>
<tr>
<td>READ 5190</td>
<td>Linguistics of Reading</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours Required: 18

Environmental Health Sciences

Ph.D. in Environmental Health Sciences

Graduate School Contact:
Mary Duncan; duncanm@etsu.edu; 423-439-4302

Kurt Maier, Ph.D., Graduate Coordinator
55 Lamb Hall
Box 70682
(423) 439-5251
e-mail: maier@etsu.edu

Phillip Scheuerman, Ph.D., Chair
55 Lamb Hall
Box 70682
(423) 439-7078
e-mail: philsche@etsu.edu

Faculty:
Kurt J. Maier; Tricia A. Metts; Phillip R. Scheuerman; Kenneth Silver.

Purpose

The purpose of the Environmental Health Sciences Ph.D. Program is to promote the environmental health sciences, and identify, prevent, and manage disease and injury. This purpose will be fulfilled through dedication to higher (doctoral level) education and training, distinction in research, innovation in policy development, and improvement of health strategies. The doctoral program will prepare professionals in the environmental health sciences to:

• reduce the burden of environmentally associated diseases by defining: 1) how environmental exposures affect human health; 2) how individuals differ in their susceptibility to these exposures; and 3) how these susceptibilities change over the life span.
• develop and implement effective strategies and programs for the maintenance of health and the prevention and management of disease and injury.
• serve as faculty and instructors for academic programs in environmental health.
• develop effective environmental health policies.
• design and conduct quality research that contributes to improvements in environmental health.
• collaborate and work with communities for the promotion of health and the prevention and control of disease.
The goal of this degree program is to prepare environmental specialists by increasing understanding of interrelationships between environmental factors and human health. Environmental health service needs are complex and increasing because of changes brought about by economic and technological advances. Technical specialists in environmental health require a comprehensive education in basic and applied sciences. The educational objectives of the program are to provide the student with an opportunity to:

1. Develop an understanding of the:
   (a) chemical, biological, physical, and social factors which affect the health of the community;
   (b) relevant concepts from the social and behavioral sciences; and
   (c) 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 for solution of environmental health problems.

Program Graduation Requirements

1. A baccalaureate degree from an accredited institution.
2. A 3.0 grade point average on a 4.0 scale.
3. An acceptable score on the general Graduate Record Examination (GRE).
4. A minimum of 30 semester hours of natural and physical science courses, including at one (1) semester of general microbiology, one (1) year of general biology, and one (1) year of general chemistry; college algebra and trigonometry or higher math are also required.
5. Three (3) letters of recommendation.

Admission is based on the GPA, GRE scores, quality of recommendation letters, strength of background (coursework, college attended, and work experience), and available space in the program. The department can grant conditional admission to candidates not meeting all of the minimum requirements. For example, work experience and letters of recommendation can be used to justify conditional admission for students not meeting one of the minimum requirements (e.g., GRE scores below what the department considers suitable). All applicants must submit an official transcript, GRE scores, and letters of reference before their application will be considered.

Program Admission Requirements

The Environmental Health Sciences Ph.D. Program Committee will review applications for admission to the program. Admission decisions are made on the basis of an overall evaluation of the student's ability to complete advanced study in the Environmental Health Sciences. The applicant must have earned an appropriate M.S. or more advanced research-based (thesis) degree in an appropriate field of study or a MPH or more advanced degree in a research-based (thesis) option from an accredited institution. Exceptions are made for outstanding students holding appropriate baccalaureate degrees. Admission is based on the GPA, GRE scores, quality of reference letters, strength of background (coursework, college attended, and work experience), and available space in the program. The program can grant conditional admission to candidates not meeting all of the minimum requirements. For example, work experience and letters of reference can be used to justify conditional admission for students not meeting one of the minimum requirements (e.g., GRE or GPA below what the program considers acceptable). However, work experience cannot be substituted for one of the requirements. All students must submit an official transcript, a statement of purpose, GRE scores, three letters of reference, and current curriculum vitae (CV) or resume before their application will be considered.

Minimum Course Requirements - Ph.D.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVH 5100/6100 Environmental Health Practice I</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5310 Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5400 Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 6910 Experimental Design</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 6920 Doctoral Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Electives (take three times - 1 credit each)</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours Required</td>
<td>41</td>
</tr>
</tbody>
</table>

Master of Science in Environmental Health

Purpose

The goal of this degree program is to prepare environmental specialists in increasing the need for trained professionals in environmental health, including those who can analyze and address environmental health issues.

Program Admission Requirements

The Environmental Health Sciences Ph.D. Program Committee will review applications for admission to the program. Admission decisions are made on the basis of an overall evaluation of the student's ability to complete advanced study in the Environmental Health Sciences. The applicant must have earned an appropriate M.S. or more advanced research-based (thesis) degree in an appropriate field of study or a MPH or more advanced degree in a research-based (thesis) option from an accredited institution. Exceptions are made for outstanding students holding appropriate baccalaureate degrees. Admission is based on the GPA, GRE scores, quality of reference letters, strength of background (coursework, college attended, and work experience), and available space in the program. The program can grant conditional admission to candidates not meeting all of the minimum requirements. For example, work experience and letters of recommendation can be used to justify conditional admission for students not meeting one of the minimum requirements (e.g., GRE scores below what the department considers suitable). All applicants must submit an official transcript, GRE scores, and letters of reference before their application will be considered.
Department of Foreign Languages
PO Box 70312, Johnson City, TN 37614
Phone: 423-439-4264; Fax: 423-439-4448; email: rogersmj@etsu.edu

This program will prepare bilingual individuals who are fluent in both of their languages for a career in health care translation and interpreting. The program will be offered in the languages currently offered by the ETSU Department of Foreign Languages: Chinese, French, German, Japanese, and Spanish.

Program Admission Requirements
In addition to the admission requirements of the School of Graduate Studies, the following materials are required for admission to the graduate certificate program:

- Submit an application to the School of Graduate Studies by July 1, along with an essay of 150-300 words describing the applicant’s reasons for pursuing the certificate program.
- Pass a telephonic Speaking and Listening Assessment in two languages at the advanced level through ALTA Language Services. The test can be scheduled by filling out a language testing form on their website (www.altalang.com/language-testing). Each applicant must pass two assessments at the advanced level, one in English and one in Chinese, French, German, Japanese, or Spanish. The oral exam must be completed and official scores must be submitted to the School of Graduate Studies by June 14.
- Applicants referred from the School of Graduate Studies to the Department of Foreign Languages will arrange with the graduate coordinator of the Department of Foreign Languages to schedule an onsite written exam by July 15 for fall admission. Applicants must also receive acceptable scores on the written exam in order to be admitted.

Course Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LANG 5100</td>
<td>Fundamentals of Translation and Interpreting Studies</td>
<td>3</td>
</tr>
<tr>
<td>LANG 5200</td>
<td>Medical Terminology for Health Care Translation and Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>LANG 5300</td>
<td>Health Care Translation</td>
<td>3</td>
</tr>
<tr>
<td>LANG 5400</td>
<td>Health Care Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>Total Required Credit Hours</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

History

Master of Arts in History

Graduate School Contact:
Gail Powers; powers@etsu.edu; 423-439-4703

Dale Schmitt, Ph.D., Chair
119 Rogers-Stout Hall
Box 70672
(423) 439-6691
e-mail: schmittd@etsu.edu

Mel Page, Ph.D., Graduate Coordinator
309 Rogers-Stout Hall
Box 70672
(423) 439-6802
e-mail: pagem@etsu.edu

Faculty:
Leila al-Imad; Henry Antkiewicz; Colin Baxter; Douglas Burgess; Ronnie Day; Dorothy Drinkard-Hawkshawe; Eminent Essin; Stephen Fritz; Tom Lee; Brian Maxson; Daniel Newcomer; Melvin Page; Dale Royalty; Dale Schmitt; Andrew Slap; Elwood Watson.

The Department of History offers a graduate degree program leading to the Master of Arts degree.

Program Admission Requirements
The minimum requirements for admission are:
1. A bachelor’s degree from an accredited institution.
2. Completion of a minimum of 27 credit-hours of study in history.
3. At least a 3.0 grade point average in upper-level history courses.
4. Letters of recommendation from three (3) undergraduate (preferably History) instructors.
5. An application essay of 250-300 words which conforms to accepted standards of good, written English and which addresses specific fields of historical interest for study in the graduate program.

Applicants who do not meet these requirements may be admitted to the graduate program on condition with departmental permission but may be required to complete successfully prescribed undergraduate graduate courses or undergraduate courses without graduate credit. After admission, each student shall consult with the graduate advisor of the department before beginning graduate study. The purpose of this consultation is to determine the academic needs of each student and to provide a program of study in history which will assist the graduate student to achieve individual aims in the School of Graduate Studies (as outlined in the application essay).

Academic Status Committee—A departmental committee will review the work of all graduate students at the end of each semester. Students whose work is judged conditional or unsatisfactory will be informed of their status and written reports and recommendations will be sent to members of the department and the graduate dean.

Admission to Candidacy—After satisfactorily completing twelve (12) credits of approved coursework, the student shall apply to the School of Graduate Studies for admission to candidacy for the master’s degree. Students who fail to apply for admission to candidacy after earning twelve (12) credits of approved graduate credit in the department will be summoned before the academic status committee for special consultation.

Required Courses for All Students:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 5950</td>
<td>Introduction to Historical Research</td>
<td>3</td>
</tr>
<tr>
<td>HIST 5940</td>
<td>Studies in Historiography</td>
<td>3</td>
</tr>
</tbody>
</table>

Thesis Option—Students who plan to continue graduate study at the doctoral level should write theses; in consultation with the graduate coordinator other students are also encouraged to select this option. An advisory committee for the thesis will be appointed by the department chair and graduate advisor after the student selects a subject acceptable to the professor in which field the student wishes to work. In addition to the six (6) credits of required courses, the student must complete HIST 5960 (Thesis) and an additional 21 credits of electives, for a minimum total of 30 credits. Students will designate a primary and secondary area of study. The secondary field shall consist of not less than six (6) credits and shall include a seminar in the field. The student taking the thesis option must also pass a final examination. At the discretion of the candidate’s committee, the final examination may be written, oral, or a combination of the two. It may be comprehensive and cover the thesis and coursework. The student may pass the examination; fail with no opportunity for re-examination; or fail with an opportunity for further study and re-examination by the committee on a specified date.

Coursework Option—All students selecting the coursework option will be required to complete an additional 33 credits of electives, in addition to the six (6) credits of required courses, for a minimum total of 39 credits. A minimum of 30 credits must be in History and no more than nine (9) credits may be in courses in collateral fields approved by the graduate coordinator. Students must declare a primary and secondary field of study. The primary area must include a seminar in that field which will include the completion of a major research paper; the secondary field shall include a minimum of nine (9) credits of study. The department chair and graduate coordinator will nominate an advisory committee for each student which will include two (2) professors in the primary area and one (1) in the secondary area. During the student’s final semester of coursework, each student will take a comprehensive written examination set by the committee over the primary and secondary areas of study which will be followed by a comprehensive oral examination. The student may pass the examination; fail with an opportunity for further study and review with re-examination by the committee; or fail with no opportunity for re-examination.

Kinesiology, Leisure and Sport Sciences

Doctor of Philosophy in Sport Physiology and Performance:
Concentrations in Sport Physiology and Sport Performance

Master of Arts in Kinesiology and Sport Studies:
Concentrations in K-12 Physical Education; Exercise Physiology and Performance; and Sport Management
The following are required for admission into the Ph.D. in Sport Physiology and Performance.

**Program Admission Requirements**

1. Payment of required nonrefundable application fee;
2. Completed application form;
3. One official transcript from each undergraduate or graduate institution attended, except previous coursework taken at ETSU;
4. Vita or resume;
5. Personal essay explaining career and educational goals and general area of interest for the dissertation;
6. Official scores on the general test of the Graduate Record Examination (GRE);
7. Four letters of recommendation with at least two from former college instructors;
8. A master’s degree (thesis preferred) or bachelor’s degree (strong research component) in biology, Exercise Science, or related discipline from an accredited university. It is recommended that entering students have an undergraduate background in statistics, general chemistry, general biology, human anatomy and physiology. Students admitted with a B.S. or M.S. degree are expected to meet all doctoral requirements, including course prerequisites or equivalencies. Thus, the program of study for a student entering with a B.S. degree will exceed the 72credit hour minimum and extend the program of study;
9. A 3.4 overall GPA for applicants with a master's degree or 3.0 for applicants with a bachelor's degree on a 4.0 scale;
10. A personal or phone interview with members of the admission committee. Factors to be considered in the interview include academic success, evidence of leadership skills, writing skills, computer skills, and oral communication skills.

**Degree Requirements**

**Residency:** All students in the Ph.D. in Sport Physiology and Performance graduate program are required to have at least two semesters of full-time residency. All graduate students in the Ph.D. in Sport Physiology and Performance graduate program are required to take the following:

**Major Field Core Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEXS 6520</td>
<td>Instrumentation in Exercise and Sport Science</td>
<td>3</td>
</tr>
<tr>
<td>PEXS 6600</td>
<td>Sport Conditioning I</td>
<td></td>
</tr>
<tr>
<td>PEXS 6610</td>
<td>Sport Physiology I: Muscle Metabolism and Hormonal Control</td>
<td>3</td>
</tr>
<tr>
<td>PEXS 6620</td>
<td>Sport Physiology II: Cardiovascular and Respiratory Physiology</td>
<td></td>
</tr>
<tr>
<td>PEXS 7000</td>
<td>Research Design and Statistics for Sport Science</td>
<td>3</td>
</tr>
<tr>
<td>PEXS 7010</td>
<td>Advanced Sport Nutrition and Ergogenic Aids</td>
<td>3</td>
</tr>
<tr>
<td>PEXS 7030</td>
<td>Seminar in Sport Science and Performance</td>
<td>3</td>
</tr>
<tr>
<td>PEXS 7430</td>
<td>Seminar in Sport Science and Performance II</td>
<td>3</td>
</tr>
<tr>
<td>PEXS 7600</td>
<td>Sport Conditioning II</td>
<td></td>
</tr>
<tr>
<td>PEXS 7830</td>
<td>Seminar in Sport Science and Performance III</td>
<td>3</td>
</tr>
<tr>
<td>MDED6010</td>
<td>Biometry and Biomedical Computing I</td>
<td></td>
</tr>
</tbody>
</table>

**Sport Physiology Concentration**

**Required Courses:**

- PEXS 6270 Sport Biomechanics .................................................. 3
- PEXS 7020 Research in Sport Physiology I .................................. 3
- PEXS 7420 Research in Sport Physiology II .................................. 3
- PHYT 6304 Neuroscience .............................................................. 6

**Required hours.............................................................................. 15**

**Guided Electives based on the needs of the student (examples):**

- PEXS 5040 Motor Control and Learning ........................................ 3
- PEXS 6280 Sport Skills and Tactics .............................................. 3
- MDED6020 Biometry and Biomedical Computing II ............................ 3
- PHYT 6103 Biomechanics ................................................................. 3
- PHYT 6405 Pharmacology I for Physical Therapy .............................. 2
- PHYT 7706 Pharmacology II for Physical Therapy ............................. 1
- SALM 6235 Sport Psychology .......................................................... 3
- BIOM 6010 Biomedical Science I – Molecular Organization Of Cells .................................................. 3
- BIOM 6020 Biomedical Science II – Gene Expression and Regulation .................................................. 3
- BIOM 6030 Biomedical Science III – Cellular Anatomy and Physiology .................................................. 3
- BIOM 6040 Biomedical Science IV-Cell and Organ Interactions 3
- BIOM 6210 Scientific Communication I ............................................ 1
- BIOM 6220 Scientific Communication II .......................................... 1
- BIOM 6300 Scientific Ethics ............................................................ 1

**Minimum Elective Hours................................................................ 9**

**Sport Performance Concentration**

**Required Courses:**

- PEXS 6680 Management Skills for Coaching .................................... 3
- PEXS 7120 Research in Sport Performance ....................................... 3
- PEXS 7400 Internship in Sport Physiology and Performance 3-9

**Required hours.............................................................................. 15**

**Guided Electives based on the needs of the student (examples):**

- PEXS 6280 Sport Skills and Tactics .............................................. 3
- SALM 7030 Legal Issues in Sport .................................................... 3
- SALM 5245 Financing Sport ............................................................. 3
- SALM 6235 Sport Psychology ............................................................ 3
- ELPA 6100 Interpersonal Relations ............................................... 3
- ELPA 6560 Small Group Leadership ................................................ 3

**Minimum Elective Hours................................................................ 9**

**Dissertation**

- PEXS 7960 Dissertation .................................................................. 3-6
- Minimum Dissertation Hours ......................................................... 15

**Total Minimum Hours required for graduation ......................... 72**

**Master of Arts in Kinesiology and Sport Studies**

The Department of Kinesiology, Leisure and Sport Sciences offers the Master of Arts (M.A.) in Kinesiology and Sport Studies with concentrations in K-12 Physical Education; Exercise Physiology and Performance, and Sport Management. These concentrations are designed to prepare students as master physical education teachers or for positions in rehabilitation programs; corporate and community wellness programs, athletic administration, sport management, motorsport management, and advanced graduate studies.

**Program Admission Requirements**

The following are required for admission into the M.A. in Kinesiology and Sport Sciences graduate program:
1. An undergraduate degree in physical education, exercise science, sport management, or closely related field;
2. GRE scores;
3. 2.7 cumulative undergraduate grade point average on a 4.0 scale;
4. Resume and contact information for at least three academic references;
5. Essay explaining goals and reasons for desiring to study with the Department of KJSS and ETSU.

Degree Requirements

All graduate students in the M.A. in Kinesiology and Sport Studies graduate program are required to take the following core courses:

Core Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SALM 5230</td>
<td>Legal Issues in Physical Education and Sport...</td>
<td>3</td>
</tr>
<tr>
<td>PEXS 5430</td>
<td>Administration of Physical Education and .........</td>
<td>3</td>
</tr>
<tr>
<td>EDFN 5950</td>
<td>Methods of Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Core Hours Required ........................................ 9

In addition to the nine-hour core listed above, requirements for each concentration are listed below. Other program electives may be arranged in consultation with the program coordinator.

Exercise Physiology and Performance Concentration

Students may choose to emphasize one of the following tracks:

1. Research – specialize in research and/or seek advanced studies (i.e., doctoral degree)
2. Wellness – specialize in health and fitness for various populations
3. Coaching & Sports Performance – specialize in coaching and performance enhancement in sports (cooperative program with sport management)

Common Concentration Requirements for all Tracks

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEXS 5610</td>
<td>Muscle Metabolism and Hormonal Control</td>
<td>3</td>
</tr>
<tr>
<td>PEXS 5620</td>
<td>Cardiovascular and Respiratory</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Concentration Hours ........................................ 6

Track Requirements

Option 1: Research Track

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEXS 5540</td>
<td>Exercise Testing and Prescription</td>
<td>3</td>
</tr>
<tr>
<td>PEXS 5655</td>
<td>Sports Nutrition &amp; Ergogenic Aids</td>
<td>3</td>
</tr>
<tr>
<td>PEXS 5656</td>
<td>Sport Conditioning/Training</td>
<td>3</td>
</tr>
<tr>
<td>PEXS 5960</td>
<td>Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Option ................................................................. 15

Research Track Electives ................................................. 6

All electives must be approved by the Program Coordinator.

Option 2: Wellness Track

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEXS 5520</td>
<td>Fitness and Sport Testing</td>
<td>3</td>
</tr>
<tr>
<td>PEXS 5540</td>
<td>Exercise Testing and Prescription</td>
<td>3</td>
</tr>
<tr>
<td>PEXS 5800</td>
<td>Internship in Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>SALM 5240</td>
<td>Risk Management &amp; Assessment in Sport</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Option ................................................................. 12

Wellness Track Electives ................................................ 9

All electives must be approved by the Program Coordinator.

Option 3: Coaching and Sports Performance Track

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEXS 5520</td>
<td>Fitness and Sport Testing</td>
<td>3</td>
</tr>
<tr>
<td>PEXS 5656</td>
<td>Sport Conditioning/Training</td>
<td>3</td>
</tr>
<tr>
<td>PEXS 5800</td>
<td>Internship in Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>SALM 5243</td>
<td>Sport Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Option ................................................................. 12

Coaching and Sports Performance Track Electives ................. 9

All electives must be approved by the Program Coordinator.

Total Hours Required for Degree ........................................ 36

Sport Management Concentration

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SALM 5220</td>
<td>Issues in Sport Management</td>
<td>3</td>
</tr>
<tr>
<td>SALM 5215</td>
<td>Sport in Society</td>
<td>3</td>
</tr>
<tr>
<td>SALM 5232</td>
<td>Sport Communication and Media Relations</td>
<td>3</td>
</tr>
<tr>
<td>SALM 5245</td>
<td>The Financing of Sport</td>
<td>3</td>
</tr>
<tr>
<td>SALM 5243</td>
<td>Sport Marketing</td>
<td>3</td>
</tr>
<tr>
<td>SALM 5250</td>
<td>Internship in Sport Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Concentration Hours ........................................ 21

Approved Concentration Electives .................................. 21

All electives must be approved by the Program Coordinator.

Motorsport Operations Track Concentration

Core Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
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<td>3</td>
</tr>
<tr>
<td>SALM 5215</td>
<td>Sport in Society</td>
<td>3</td>
</tr>
<tr>
<td>SALM 5233</td>
<td>Public Relations &amp; Mass Media in Motorsport</td>
<td>3</td>
</tr>
<tr>
<td>SALM 5246</td>
<td>Financial Mgmt. &amp; Sponsorship in Motorsport</td>
<td>3</td>
</tr>
<tr>
<td>SALM 5244</td>
<td>Applied Motorsport Marketing</td>
<td>3</td>
</tr>
<tr>
<td>SALM 5231</td>
<td>Motorsport Operations</td>
<td>3</td>
</tr>
<tr>
<td>SALM 5250</td>
<td>Internship in Sport Management</td>
<td>6</td>
</tr>
<tr>
<td>PEXS 5960</td>
<td>Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Concentration Hours ........................................ 24

All electives must be approved by the Program Coordinator.

*K-12 Physical Education Concentration

(Students must be licensed to teach in any subject area.)

Concentration Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEXS 5040</td>
<td>Motor Control and Learning</td>
<td>3</td>
</tr>
<tr>
<td>PEXS 5110</td>
<td>Curriculum Development</td>
<td>3</td>
</tr>
<tr>
<td>PEXS 5460</td>
<td>Inclusion in PE and Sport</td>
<td>3</td>
</tr>
<tr>
<td>PEXS 5470</td>
<td>Systematic Observation and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PEXS 5960</td>
<td>Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Concentration Hours Required ............................. 18

Approved Program Electives ........................................ 12

All electives must be approved by the Program Coordinator.

Liberal Studies

Master of Arts in Liberal Studies

Graduate School Contact:
Rene Palumbo; palumbo@etsu.edu; 423-439-6158
Marie Tedesco, Ph.D., Director
916 West Maple
Box 70659
(423) 439-4223
e-mail: tedesco@etsu.edu
Jo Lobertini, Ed.D., Assistant Dean/Chair
916 West Maple
Box 70659
(423) 439-4223
e-mail: lobertini@etsu.edu

Faculty:
Jill LeRoy-Frazier; Marie Tedesco.

The Master of Arts in Liberal Studies is an interdisciplinary program that offers students from a variety of backgrounds an alternative graduate education. Firmly grounded in the values of interdisciplinary learning, the MALS degree allows students to design an individualized program of study in the Arts, Humanities, Sciences, Social Sciences, and related fields. Students may thus pursue study in such areas as Women's Studies, Appalachian Studies, and African American Studies, fields where graduate courses exist, but not graduate degrees. MALS students, except those who choose the Archives Concentration (see below)—complete a common core, then combine graduate courses from other academic departments with either a thesis or a special project to complete their programs of study.

Program Admission Requirements
A student applying to the Master of Arts in Liberal Studies program needs the following:
1. A baccalaureate degree in any field from a regionally accredited institution.
2. An undergraduate cumulative grade point average of 2.50 on a 4.0 scale.
3. Three letters of recommendation.
4. A successful admissions interview.

Degree Requirements

Students must complete thirteen (13) credits in a common core and 18 - 21 credit-hours in related graduate courses. The thesis option requires 31 total credit-hours, while the project option requires 34 total credit-hours. The MALS core consists of the following courses:

MALS 5000 Foundations in Liberal Studies ......................... 1
MALS 5100 Introduction to Interdisciplinary Study .............. 3
MALS 5200 Seminar in Liberal Studies ............................ 3
MALS 5400 Seminar in Interdisciplinary Research .............. 3
MALS 5950 Special Project in Liberal Studies or 
MALS 5960 Thesis ...................................................... 3

* May be repeated once when topic changes.

Beyond the MALS core, the program of study will come from offerings of various departments at East Tennessee State University, with the following limitations: Elective courses must come from at least two (2) different academic departments, and except in special circumstances, no more than one (1) course may be taken from colleges other than Arts and Sciences, and Education. Only six (6) credit-hours of coursework may be taken from any one (1) department in Arts and Sciences, and Education, without the approval of the M.A.L.S. director. Please note that a student may not take all elective courses from the College of Education. Students must meet all prerequisites for all courses.

Archival Studies Concentration

The concentration in archival studies within the MALS program offers students a cross-disciplinary program of study consistent with recommendations of the Society of American Archivists. Students take core courses in liberal studies, as well as core courses in archival studies. Electives come from three (3) categories: Library Science, Management, and Subject Field. A practicum at a local repository is an elective option.

MALS Core for the Archival Studies Concentration

MALS 5000 Foundations in Liberal Studies ....................... 1
MALS 5100 Introduction to Interdisciplinary Study ............. 3
MALS 5200 Seminar in Liberal Studies .......................... 3
MALS 5400 Seminar in Interdisciplinary Research ............ 3
MALS 5950 Special Project in Liberal Studies or 
MALS 5960 Thesis ...................................................... 3

Total MALS Core ................................................... 13 Credit Hours

Archival Studies Concentration

AVST 5310 Archives History and Issues .......................... 3
AVST 5311 Archives Theory and Practice ........................ 3
AVST 5312 Archives Conservation .................................. 3
AVST 5320 Principles and Practices of Records Mgmt. ......... 3

Total Archival Studies Hours ............................... 12 Credit Hours

Guided Electives (Library Science)

Students will choose one (1) of the following courses:
MEDA 5000 History and Philosophy of Educational Media and Educational Technology ......................... 3
MEDA 5720 Organization of Library Media 

Total Media Hours ................................................... 3 Credit Hours

Guided Electives (Management)

Students will choose one (1) of the following courses:
PMGT 5100 Introduction to Public Administration ............ 3
MGMT 5010 Essentials of Management 

Total Management Hours ........................................ 3 Credit Hours

Guided Electives (Information Science and Data Management)

Students will choose two (2) of the following courses:
CSCI 5011 Internet Technology I or 
CSCI 5012 Internet Technology II or 
CSCI 5217 Ethical Issues in Computing or 
MEDA 5850 Organizing and Managing Content on the Internet or 
CSCI 5317 Internet and Computer Law 

Total Information Science/ Data Management Hours .............. 6 Credit Hours

Subject Field Electives

Students will choose two courses from the disciplines or 
One disciplinary course and AVST 5570 Archives Practicum. 
Courses must be approved by Archival Studies Coordinator.

Total Subject Field Hours .................................... 6 Credit Hours

Total Program Credit Hours .................................. 43

Archival Studies Graduate Certificate

The Archival Studies Graduate Certificate is an eighteen (18) credit-hour program designed for individuals who need, or want, archival training, but for whom the full degree program is not a necessity. Employees of a museum, historic site, or business may benefit from the certificate, as may history students who desire to complement their undergraduate or graduate degree. Individuals who must organize church or family records will also benefit from the certificate program. Admissions requirements for students pursuing the certificate are the same as those for students entering the MALS program. Please note that the certificate may be completed online. Please contact the Archives Education coordinator for details at 423-439-4223.

Required Archival Studies Courses

Students must take the following three (3) courses

AVST 5310 Archives History and Issues .......................... 3
AVST 5311 Archives Theory and Practice ........................ 3
AVST 5312 Archives Conservation .................................. 3

Total Archival Studies Hours ................................ 9

Guided Electives

Students must take three (3) courses from the list below:

AVST 5570 Archives Practicum .................................. 3
CSCI 5011 Internet Technology I .................................. 3
PMGT 5100 Introduction to Public Administration .......... 3
MEDA 5000 History and Philosophy of Educational 
Media and Technology ........................................ 3
MGMT 5010 Essentials of Management ....................... 3
HIST 5950 Introduction to Historical Research .............. 3
SOAA 5627 Ethnographic Fieldwork ............................ 3
MEDA 5720 Organization of Library Materials ............... 3
MEDA 5750 Information and Records Mgmt. .................... 3

Total Elective Hours ................................................ 9

Total Hours Required ................................................. 18

With the approval of the Archival Studies Coordinator, students may select ONE elective course not on the list above.

Mathematical Sciences

Master of Science in Mathematical Sciences

Graduate School Contact:
Gail Powers; powers@etsu.edu; 423-439-4703
Jeff Knisley, Ph.D., Program Coordinator
308K Gilbreath Hall
Box 70663
(423) 439-4716
e-mail: knisleyj@etsu.edu

Anant Godbole, Ph.D., Chair
312 Gilbreath Hall
Box 70663
(423) 439-5359
e-mail: godbolea@etsu.edu

Faculty:
Robert Beeler; Robert B. Gardner; Anant Godbole; Teresa Haynes; Michel Helfgott; Debra Knisley; Jeff Knisley; Yali Liu; Yared Nigussie; Rick Norwood; George D. Poole; Robert Price; Edith Seier.

2010-2011 Graduate Catalog 69
The Department of Mathematics and Statistics offers a flexible program of study leading to the Master of Science (M.S.) degree in Mathematical Sciences. After completing a core program of twelve (12) credits, the student may select coursework from a curriculum designed to emphasize classical mathematics, applied mathematics/computational mathematics, actuarial mathematics, mathematical statistics, or mathematics education.

A student may pursue a program of study to include coursework in other mathematically oriented disciplines. For example, under the supervision of a graduate advisor, the student may design a program in which as much as half of the student's coursework is taken at the graduate level in computer science, management science, physics, technology, or some other mathematically oriented area.

Depending on the design of the program, opportunities for the student who successfully completes the M.S. degree are numerous. These programs may lead to careers in business, industry, government, or advanced teaching positions in secondary or higher education. The department also offers a Master of Science (M.S.) degree in Mathematical Sciences with a concentration in Pre collegiate Mathematics.

### Mathematical Sciences Program Admission Requirements

For admission to the program a student must have:

1. A bachelor's degree from an accredited college or university in mathematics or related area.
2. Submit general GRE scores.
3. Submit three (3) letters of recommendation from individuals familiar with applicant's academic performance and likelihood of success in the School of Graduate Studies.
4. Complete all of the admission requirements of the School of Graduate Studies.

Incoming students lacking certain prerequisites may be required to make up these deficiencies. However, graduate credit will not be given for this coursework.

Each student is required to take a comprehensive examination in Calculus I-II and Linear Algebra. These exams are to be taken during the first semester of enrollment. In the event that a student does not achieve a grade of "B" or better on the examination, the student must make arrangements to do remedial work and retake the examination at the next scheduled time. The student may not register for MATH 5960 (Thesis) until both examinations have been passed by achieving a grade of "B" or better.

### Minimum Degree Requirements

The student should meet with the graduate coordinator as soon as possible to determine career goals and a program of study. In consultation with the student, the graduate coordinator will assign a committee and chair. A minimum of 30 semester credits of acceptable work, including a thesis, is required for a degree. Of the 30 required credits no more than nine (9) credits can be from courses with numbers 5XX7.

#### Core Requirements

Every candidate must complete MATH 5210 (Real Analysis I) and MATH 5410 (Modern Algebra I), plus at least two (2) of the following:

- MATH 5510 Complex Analysis I
- MATH 5610 Applied Mathematics I
- MATH 5710 Statistical Methods I
- MATH 5340 Graph Theory
- MATH 5357 Topology
- MATH 5850 Numerical Analysis I

The student's program of study must contain at least one (1) two-course sequence. The two-course sequence may contain a course from the above requirements. Examples of two-course sequences include:

- MATH 5210-5220 Real Analysis I and II
- MATH 5257-5267 Numerical Analysis & Numerical Linear Algebra
- MATH 5340-5450 Graph Theory & Adv. Topics in Graph Theory
- MATH 5410-5420 Modern Algebra I and II
- MATH 5510-5520 Complex Analysis I and II
- MATH 5610-5620 Applied Mathematics I and II
- MATH 5710-5720 Statistical Methods I and II
- MATH 5810-5820 Operations Research I and II

MATH 5850-5860 Numerical Analysis I and II

#### Courses

- No later than the time when a student completes twelve (12) credits of approved coursework, a committee will be appointed for the student.
- The committee and student, together, will decide which courses the student will take to complete the Master of Science degree. In addition to mathematics courses, students who are interested in applications of mathematics are encouraged to elect courses in computer science, management science, physics, technology, and other mathematically oriented fields. The final approval of the student's program rests with the graduate coordinator and the committee chair.

#### Thesis

The chair of the student's committee will ordinarily direct the research and preparation of the thesis. After selecting a topic, the student, in consultation with the student's committee, must prepare a tentative outline. This outline must be kept current during the preparation of the thesis and contained in the student's graduate folder.

#### Cooperative Program

The Department of Mathematics and Statistics participates in the cooperative education program. All students are encouraged to participate in this program to gain practical experience in the applications of mathematics. A maximum of four (4) hours of graduate credit may be earned toward graduation through this program.

#### Teacher Certification

A student interested in teacher certification should contact the College of Education about the Master of Arts in Teaching (M.A.T.) or the Master of Education program.

### Mathematical Sciences with Pre collegiate Mathematics Concentration

Dr. Anant Godbole, Department Chair and Program Coordinator
312 Gilbreath Hall
Box 70663
Johnson City, TN 37614
423-439-5359
e-mail: godbolea@etsu.edu

#### Faculty:

Robert Gardner; Anant Godbole; Teresa Haynes; Michel Helfgott; Debra Knisley; Jeff Knisley; Yali Liu; Yared Nigussie; Rick Norwood; George Poole; Robert Price; Edith Seier; Daryl Stephens.

The Department of Mathematics and Statistics offers a program of study leading to the Master of Science (M.S.) degree with a concentration in Pre collegiate Mathematics. The pre collegiate mathematics concentration is designed for in-service teachers and consists of an eight-course sequence containing two tracks - a K-8 mathematics track and a 7-12 track - with the aim of producing an in-depth, profound understanding of the mathematics taught in elementary, middle, and high school. In addition, there are six hours of independent study and thesis research.

The courses for this degree are offered as part of a cohort. All who enroll in the program will proceed through the entire sequence as a group.

#### Program Admission Requirements

For admission to the program, a student must:

1. Have a bachelor's degree from an accredited college or university;
2. Submit three letters of recommendation from individuals familiar with applicant’s academic performance, addressing likelihood of success in the School of Graduate Studies, and;
3. Complete all of the admission requirements of the graduate school.

Incoming students lacking certain prerequisites may be required to make up these deficiencies. However, graduate credit will not be given for this coursework.

#### Minimum Degree Requirements

The courses to be taken are listed below. All students in the program will take the same 21 hours of core courses. The other nine hours taken depend on whether the student is an elementary/middle or middle/secondary teacher.

#### Core Requirements

**21 hours**

- MATH 5015 Probability and Statistics for K-12 Teachers
- MATH 5025 Foundations and Structure of Mathematics I
- MATH 5026 Foundations and Structure of Mathematics II
- MATH 5040 Reasoning in Mathematics
- MATH 5900 Independent Study
- MATH 5960 Thesis
Elementary Track ................................................................. 9 hours
MATH 5010 Patterns and Problem Solving for Elementary and Middle School Teachers
CUAI 5199 Teaching in a Diverse Society
CUAI 5113 Instructional Excellence in Mathematics K-8

Secondary Track ................................................................. 9 Hours
MATH 5050 Analysis for Teachers
MATH 5060 Algebra for Teachers
MATH 5417 Teaching for Secondary Mathematics

Thesis: No later than the time when a student completes 18 hours of approved work, a committee will be appointed for the student. The chair of the student's committee will ordinarily direct the research and preparation of the thesis. After selecting a topic, the student, in consideration with the student's committee, must prepare a tentative outline. This outline must be kept current during the preparation of the thesis and contained in the student's graduate folder.

Some Disclaimers
• This degree will not license you to teach math. (You need a Bachelor of Science degree with a Mathematics Education concentration or the MAT in Secondary mathematics.)
• This degree will not give you an add-on mathematics licensure. (You need 21 hours of mathematics classes at the undergraduate level as specified by the College of Education.)
• This degree is intended primarily for in-service teachers.
• This program will be offered, at least for the first few years, as a cohort program. Check with Anant Godbole (godbolea@etsu.edu) to see when the next cohort will start.
• Graduates of the secondary program will have enough mathematics hours to be highly qualified as teachers of mathematics under No Child Left Behind; graduates of the elementary program who have at least 3 undergraduate hours of mathematics prior to this degree will also be highly qualified as teachers of mathematics under No Child Left Behind.
• Graduates of this program will not be qualified to teach college-level mathematics at a community college or four-year college. Persons intending to pursue a career in collegiate teaching should enroll in the regular Master of Science in Mathematical Sciences.

Advanced Nursing Practice Post-Master’s Certificate
Advanced Nursing Practice Post-Master’s Certificate
(Regents Online Degree Program)

Dr. Janne Dunham-Taylor, Ph.D., Master of Science in Nursing Graduate Coordinator
2-303 Roy S. Nicks Hall
Box 70658
(423) 439-4494
e-mail: dunhamta@etsu.edu

Dr. Nancy Granberry, N.D., Master of Science in Nursing, Regents Online Degree Program Graduate Coordinator
2-300 Roy S. Nicks Hall
Box 70658
(423) 439-4874
e-mail: granberr@etsu.edu

Faculty:
Morta Baharestani; Sally S. Blowers; Sandy Calboun; Janne Dunham-Taylor; Joellen B. Edwards; Linda Garrett; Masoud Ghaffari; Lee Glenn; Nancy Granberry; Audrey Greenwell; Patricia A. Hayes; Susan Hossler; Sadie Hutson; Frances Jackson; Amy Kaplan; Sharon Loury; Catherin Lauzon; Jo-Ann S. Marrs; Peggy McConnell; Wendy Nehring; Carolyn Merriman; Tamera Pearson; Priscilla Ramsey; Kathleen M. Rayman; Judith Rice; Jennifer Steward-Glenn; Sharon Trumbley; Pearl Ume-Nwago; Patricia Vanhook; Joy E. Wachs; Jennie Walls; Amy Swango Wilson.

Doctor of Philosophy

The purpose of the Doctor of Philosophy in Nursing (Ph.D.) degree program at ETSU is to prepare expert practitioners and nurse scientists who are capable of conducting research that will improve health and provide leadership in the health care delivery system. Graduates of the program will meet an escalating need for nurse educators and researchers in schools of nursing, health agencies, and complex health care delivery systems across the state and nation. The Ph.D. program prepares students with advanced knowledge and skills in the science of nursing, with an emphasis on the application of knowledge to improve the health of rural and/or underserved population groups. The student is expected to demonstrate a sound knowledge of research methods and techniques of data analysis, and acquire analytical and leadership skills for dealing with social, ethical, cultural, economic, and political issues related to nursing, health care education, and research. The curriculum is designed to provide the student with coursework in the philosophy of science, ethics, statistical procedures, research methods, nursing science, and selected in-depth study in a selected cognate area. The curriculum is designed to accommodate working professional. A dissertation on a topic of interest is required.

Program Admission Requirements

Applicants seeking admission to the Ph.D. degree program at East Tennessee State University must fulfill all the requirements for admission to both the School of Graduate Studies and the College of Nursing. The School of Graduate Studies requires that all students submit the following materials: a completed application with payment of a nonrefundable application fee; official transcripts of all previous undergraduate and graduate work; and a written essay.

In addition, College of Nursing requirements for admission to the Ph.D. degree program include:
1. A master's degree* in nursing from a nationally accredited nursing program with a cumulative grade point average of at least 3.0 on a 4.0 point scale;
2. Submission of Graduate Record Exam (GRE) scores;
3. Licensure in the United States as a registered nurse and eligibility for licensure in Tennessee or compact state;*
4. At least two (2)-years of full-time work experience (or equivalent) in nursing as a registered nurse;
5. Three (3) letters of recommendation, one (1) from the applicant's current (or most recent) supervisor, one (1) from a faculty member who worked directly with the applicant during previous graduate study, and one (1) from an individual selected by the applicant;
6. Completion of an interview;
7. Completion of a writing sample on a selected topic at the time of interview;

Dr. Sadie Hutson, Ph.D., Doctor of Philosophy in Nursing Graduate Coordinator
291 Roy S. Nicks Hall
Box 70658
(423) 439-5626
e-mail: hutsons@etsu.edu

Some Disclaimers
• This degree will not license you to teach math. (You need a Bachelor of Science degree with a Mathematics Education concentration or the MAT in Secondary mathematics.)
• This degree will not give you an add-on mathematics licensure. (You need 21 hours of mathematics classes at the undergraduate level as specified by the College of Education.)
• This degree is intended primarily for in-service teachers.
• This program will be offered, at least for the first few years, as a cohort program. Check with Anant Godbole (godbolea@etsu.edu) to see when the next cohort will start.
• Graduates of the secondary program will have enough mathematics hours to be highly qualified as teachers of mathematics under No Child Left Behind; graduates of the elementary program who have at least 3 undergraduate hours of mathematics prior to this degree will also be highly qualified as teachers of mathematics under No Child Left Behind.
• Graduates of this program will not be qualified to teach college-level mathematics at a community college or four-year college. Persons intending to pursue a career in collegiate teaching should enroll in the regular Master of Science in Mathematical Sciences.

Some Disclaimers
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• Graduates of the secondary program will have enough mathematics hours to be highly qualified as teachers of mathematics under No Child Left Behind; graduates of the elementary program who have at least 3 undergraduate hours of mathematics prior to this degree will also be highly qualified as teachers of mathematics under No Child Left Behind.
• Graduates of this program will not be qualified to teach college-level mathematics at a community college or four-year college. Persons intending to pursue a career in collegiate teaching should enroll in the regular Master of Science in Mathematical Sciences.
8. A cover letter expressing the applicant’s personal goals for doctoral study (unless clearly articulated in the written essay requested by the university); and
9. A résumé or vita, as appropriate.
* Or equivalency for international applicants.

The completed application form and fee, official transcripts of all previous undergraduate and graduate work, essay, additional documentation required of international students (if applicable), documentation of nursing licensure in the United States, letters of recommendation, and résumé/vita must be submitted to the School of Graduate Studies. The personal interview and time for preparing the writing sample will be scheduled by the College of Nursing’s Ph.D. Admissions Committee.

Factors given consideration in the admission decision include: previous graduate grade point average (GPA), level of GRE performance, clarity of goals for doctoral study as stated in writing and during the interview, writing ability, professional work experience and achievements, professional honors and awards, interest in rural and underserved population groups, and quality of references/recommendations. The Ph.D. Admissions Committee may admit a promising applicant who has not met all the admission requirements on a conditional basis.

Advisement

Upon admission to the doctoral program, the student will be assigned a faculty advisor who will work with the student in developing the initial program of study and advising the student throughout their program of study and residencies.

Requirements for Completion of the Degree

Students must comply with all policies of the ETSU School of Graduate Studies regarding retention, progression, and graduation as described in the Graduate Catalog. To remain in good standing, a graduate student must maintain an overall grade point average (GPA) of 3.0 “B” or better on all graduate work attempted. According to university policy all graduate course grades earned at ETSU will be used in computing the grade point average (GPA). Students must also have a 3.0 “B” grade point average (GPA) in the program of study to graduate. In addition, College of Nursing policy states that if a student fails to earn a grade of “C” or better in any required graduate courses, the student is ineligible to continue in the program. If dismissed, a student has the option to apply for reinstatement. Students must become licensed or authorized to practice professional nursing in Tennessee or a compact state, demonstrate evidence of professional malpractice insurance in the amount of $1,000,000/$3,000,000 coverage, have current CPR certification and a knowledge of universal precautions, have completed a criminal background check per College of Nursing policy, and comply with the clinical requirements of the College of Nursing. A student may be asked to present evidence of physical or mental health at any time during the nursing program, and continuance in the program may be contingent upon this evidence.

Residency Requirements—The purpose of the residency requirement is to build a community of scholars. It provides doctoral students with significant time for sustained participation with peers and faculty members in scholarly and creative activities. A student in the Ph.D. program will fulfill the residency requirement by accomplishing selected professional activities such as scholarly writing, research, presentations, consulting, and grant writing, as specified in a residency plan. (Guidelines for Residency Activities will be provided.) The residency plan must be approved by the student’s advisor and the Associate Dean of Academic Programs in the College of Nursing. Each student must complete the required approved residency activities and submit a residency portfolio as documentation no later than the semester in which the qualifying examination is taken.

Comprehensive Examination—Prior to candidacy for the doctoral degree, a student must successfully complete a written and/or oral examination. The goal of the comprehensive examination will be to demonstrate synthesis of the subject material. The examination will consist of four (4) questions, one from each of the following areas: research, theory, concepts, and philosophy; policy, ethics, and collaboration; and a cognate area. All students must be registered for a minimum of one (1) semester hour of coursework in the semester in which they take or re-take the entire examination; upon completion of all coursework the student should register for a minimum of one (1) credit hour of ALNU/FCNU/PMNU 6960-Readings and Research. After students pass the comprehensive examination they will be admitted to candidacy. If the student fails the comprehensive examination a second attempt can be made; however, if the student is unable to successfully pass the comprehensive examination after two (2) attempts they will be dismissed from the program.

Dissertation—Each doctoral candidate must complete a dissertation as a major requirement for the Ph.D. degree. The dissertation topic will be selected by the candidate and approved by the student’s advisory committee. A dissertation proposal consisting of the first three (3) chapters of the dissertation will be completed and presented for approval to the student’s advisory committee prior to beginning data collection for the research project. Once the dissertation research has been conducted, the results analyzed, and the report written and accepted by the advisory committee, an oral defense of the dissertation will be scheduled. The dissertation must be prepared in accordance with School of Graduate Studies guidelines and submitted to the Dean of the School of Graduate Studies for approval. General guidelines on the dissertation format and procedures to be followed in scheduling an oral defense are available in the School of Graduate Studies.

Time Limit—The time limit for completion of the Ph.D. degree program by a student is seven (7) years from the date of enrollment in the earliest course applied toward the degree.

Program of Study—The Ph.D. curriculum is composed of a minimum of 59 credit-hours, including courses in foundations of scientific inquiry, research methods and data analysis, and nursing science; cognate courses, to complement the student’s previous experiences and career goals; and dissertation hours. A minimum of twelve (12) credits is required for each cognate. Opportunities for role development are provided within the nursing and cognate courses and through professional activities as specified within the student’s residency plans. Students in the Ph.D. program may select courses only at the 5000, 6000, or 7000 levels; at least one-half of all courses within the doctoral student’s program of study must be at the 6000/7000 levels. A summary of the curriculum follows:

Prerequisite: An introduction to statistics course at the graduate level*

Foundations of Scientific Inquiry

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRSE 6100</td>
<td>Philosophy of Nursing Science</td>
<td>3</td>
</tr>
<tr>
<td>NRSE 6110</td>
<td>Interdisciplinary Approaches to</td>
<td>3</td>
</tr>
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</table>

Bioethical Issues

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>NRSE 6020</td>
<td>Advanced Data Analysis</td>
<td>4</td>
</tr>
<tr>
<td>NRSE 6030</td>
<td>Quantitative Methods in Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NRSE 6040</td>
<td>Qualitative Methods in Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NRSE 6014</td>
<td>Measurement of Clinical Outcomes</td>
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Nursing Science

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRSE 6000</td>
<td>Theoretical Foundations of Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NRSE 6100</td>
<td>Health Policy Leadership</td>
<td>3</td>
</tr>
<tr>
<td>NRSE 6101</td>
<td>Concept Development in Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NRSE 6120</td>
<td>Concept Development in Nursing II</td>
<td>3</td>
</tr>
<tr>
<td>NRSE 6900</td>
<td>Dissertation Seminar</td>
<td>1</td>
</tr>
<tr>
<td>NRSE 6119</td>
<td>Collaborative Approaches to Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

Guided Elective ................................................. 3 Credit Hours

At least one nursing or non-nursing elective

Cognate Course Selections .................................... 9 Credit Hours

Dissertation .................................................. 12 Credit Hours

Total Hours Required ......................................... 59 Credit Hours

* Any appropriate 5000/6000/7000 level three credit hour statistics course taken at ETSU or another university may be acceptable. Please submit syllabus for approval prior to registration in the Office of Academic Programs and Student Services. The statistics course must be completed within ten years of enrollment in the first research course. ECON 5010 and EL3:A 7810 are potential ETSU courses.

** All students must be registered for a minimum of one semester hour of coursework in the semester in which they take or re-take the qualifying examination. If all coursework is completed, students must register (until they are admitted to candidacy) for at least one semester hour of ALNU/FCNU/PMNU 6960 Readings and Research each semester.

Master of Science Degree

The purpose of the Master of Science in Nursing (M.S.N.) degree program is to prepare nurses for advanced practice and entry into specialization, as well as for leadership roles. The nurse in advanced practice works in interdisciplinatory relationships and collaborative partnerships to meet health care needs and provide high quality, cost-effective client care. The master's
prepared nurse is accountable for influencing health policy, improving health care delivery, contributing to nursing science, and promoting the advancement of the nursing profession.

The focus of the graduate program is on the delivery of nursing care to rural and/or underserved clients across the lifespan. Curricula are available to prepare students as Nurse Administrators, Clinical Nurse Leaders, or Family, Adult, Gerontological, or Psychiatric/Mental Health Nurse Practitioners. Students who complete course requirements for the nurse practitioner specialties, nursing administration or Clinical Nurse Leader are qualified to take a national certification examination. The program is fully accredited by the Commission on Collegiate Nursing Education (CCNE). The CCNE is an additional resource of information regarding tuition, fees, and program length. (One DuPont Circle, NW, Suite 530, Washington, DC 20036-1120, 1-202-887-6791)

Program Admission Requirements

The criteria for admission to the Master of Science in Nursing degree program are as follows:

1. A Bachelor of Science in Nursing (B.S.N.) degree from a program accredited by the National League for Nursing Accrediting Commission (NLNAC) or the Commission on Collegiate Nursing Education (CCNE);
2. A “B” average (3.0 grade point average on a 4.0 scale) in the nursing major;
3. Submission of Graduate Record Examination (GRE) scores (only for applicants with an undergraduate GPA for their B.S.N. degree lower than 3.2). Applicants with a GPA of 3.2 or higher will not be required to submit GRE scores.
4. Licensure in the United States as a registered nurse and eligibility for licensure in Tennessee or compact state.

Documentation of the above requirements must be included with the application materials submitted to the School of Graduate Studies along with a current resume. Three (3) professional references should be included in the application packet. Applicants are encouraged to request references from individuals who can best assess one’s potential for graduate study (e.g. previous nursing faculty, other master’s prepared nurses). Admission to the program will be based on competitive selection from the pool of applicants who meet the admission requirements. All applications will be reviewed by the College of Nursing Graduates Admissions Committee. Applications submitted after the application deadline will not be considered. Application deadlines are as follows:

- Fall semester deadline - February 1;
- Spring semester deadline - July 1;
- Summer semester deadline - December 1.

Full-time study begins only in the fall semester.

Factors given consideration in the admission decision include the following:

Grade Point Average, level of GRE performance if required, professional work experience, demonstration of professional commitment through continuing education, professional honors and awards, writing ability, demonstrated interest in primary care in rural settings, and references. Applicants are strongly encouraged to address their accomplishments in these areas in their essay, required by the School of Graduate Studies, and in a vita/ résumé submitted with the application. The Graduate Admissions Committee may exercise discretion in the admission of promising students who present rationale for their fitness for graduate study yet lack compliance with all criteria. A personal interview may be required.

Applicants may obtain a copy of College of Nursing policies pertaining to graduate students, including the substance abuse policy, clinical course requirements, and information on Core Performance Standards from the College of Nursing Office of Academic Programs and Student Services. After admission to the program, students will receive the College of Nursing Student Handbook and must sign forms indicating they have read the College of Nursing policies and agree to abide by them.

Before entrance into clinical courses, students must be licensed or enrolled in the program. A student who receives less than a “C” grade in any required course will be recommended for dismissal from the program. If dismissed, a student has the option to apply for reinstatement.

Handbook and must sign forms indicating they have read the College of Nursing Office of Academic Programs and Student Services. After entrance into clinical courses, students must be licensed or enrolled in the program. A student who receives less than a “C” grade in any required course will be recommended for dismissal from the program. If dismissed, a student has the option to apply for reinstatement.

Courses are selected and approved in conjunction with the student’s advisor. The courses are lodged within Graduate Programs. In general, courses are offered once a year and coursework begins each term. All students in the master's degree nursing program are required to take the following core courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRSE 5000</td>
<td>Conceptual Systems in Advanced Nursing Practice</td>
<td>2</td>
</tr>
<tr>
<td>NRSE 5001</td>
<td>Nursing Research and Design</td>
<td>3</td>
</tr>
<tr>
<td>NRSE 5002</td>
<td>Policy &amp; Ethics in Advanced Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5607</td>
<td>Gerontology and Health</td>
<td>3</td>
</tr>
<tr>
<td>Total Core Hours</td>
<td></td>
<td>8</td>
</tr>
</tbody>
</table>

Advanced Practice Nursing Core

Students enrolled in a nurse practitioner specialty curriculum will complete the Advanced Practice Nursing core and additional specialty nursing courses. The Advanced Practice Nursing core courses include the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRSE 5009</td>
<td>Health Assessment Throughout the Lifespan</td>
<td>3</td>
</tr>
<tr>
<td>NRSE 5010</td>
<td>Health Assessment Through the Lifespan: Practicum</td>
<td>3</td>
</tr>
<tr>
<td>NRSE 5016</td>
<td>Pathophysiology for Nursing Diagnoses and Interventions</td>
<td>3</td>
</tr>
<tr>
<td>NRSE 5018</td>
<td>Advanced Clinical Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>NRSE 5004</td>
<td>Seminar in Professional Roles</td>
<td>1</td>
</tr>
<tr>
<td>Total Advanced Practice Nursing Core</td>
<td></td>
<td>13</td>
</tr>
</tbody>
</table>

Additional Family Nurse Practitioner Specialty Courses

Additional courses required in the Family Nurse Practitioner specialty include the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRSE 5011</td>
<td>Lifespan Assessment and Clinical Management: Young and Middle Adults</td>
<td>2</td>
</tr>
<tr>
<td>NRSE 5012</td>
<td>Lifespan Assessment and Clinical Management: Young and Middle Adults Practicum</td>
<td>3</td>
</tr>
<tr>
<td>NRSE 5013</td>
<td>Lifespan Assessment and Clinical Management: Older Adults Practicum</td>
<td>2</td>
</tr>
<tr>
<td>NRSE 5014</td>
<td>Lifespan Assessment and Clinical Management: Older Adults</td>
<td>3</td>
</tr>
<tr>
<td>NRSE 5021</td>
<td>Lifespan Assessment and Clinical Management: Women’s Health</td>
<td>2</td>
</tr>
<tr>
<td>NRSE 5022</td>
<td>Lifespan Assessment and Clinical Management: Women’s Health Practicum</td>
<td>3</td>
</tr>
<tr>
<td>NRSE 5023</td>
<td>Lifespan Assessment and Clinical Management: Children &amp; Adolescents</td>
<td>2</td>
</tr>
<tr>
<td>NRSE 5024</td>
<td>Lifespan Assessment and Clinical Management: Children &amp; Adolescents Practicum</td>
<td>3</td>
</tr>
<tr>
<td>NRSE 5402</td>
<td>Behavioral Health Concepts for Adults</td>
<td>3</td>
</tr>
<tr>
<td>NRSE 5403</td>
<td>Behavioral Health Concepts for Adults Practicum</td>
<td>3</td>
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</table>
NRSE 5950 Internship in Advanced Nursing Practice ........... 4

Required courses for students in the Adult Nurse Practitioner specialty include all courses required for the Family Nurse Practitioner specialty except the FCNU 5023/24 Lifespan Assessment and Clinical Management: Children and Adolescents courses (5 credit-hours). In lieu of these two (2) courses, students in the Adult Nurse Practitioner specialty are required to take ALNU 5021 Case Management (2 credit-hours) and ALNU 5038 Pharmacology and Therapeutics for Older Adults (1 credit-hour).

**Gerontological Nurse Practitioner Specialty Courses**

Required specialty courses for the Gerontological Nurse Practitioner students include:

- NRSE 5013 Lifespan Assessment and Clinical Management: Older Adults .............................................. 2
- NRSE 5014 Lifespan Assessment and Clinical Management: Older Adults Practicum .............................................. 3
- NRSE 5031 Care of the Older Adult in Structured Settings .............................................. 2
- NRSE 5032 Practicum in the Care of the Older Adult in Structured Settings Practicum .................. 3
- NRSE 5011 Lifespan Assessment and Clinical Management: Young and Middle Adults Practicum .............................................. 2
- NRSE 5038 Pharmacology and Therapeutics for Older Adults .............................................. 1
- NRSE 5950 Internship in Advanced Nursing Practice .............................................. 4
- NRSE 6513 Case Management .............................................. 2

**Psychiatric/Mental Health Nurse Practitioner Specialty Courses**

Required specialty courses for Psychiatric/Mental Health Nurse Practitioner students include:

- NRSE 5404 Advanced Psychiatric Nursing Care I .............................................. 3
- NRSE 5405 Adv. Psychiatric Nursing Care I: Practicum .............................................. 3
- NRSE 5303 Psychopharmacology .............................................. 3
- NRSE 5408 Advanced Psychiatric Nursing Care II .............................................. 2
- NRSE 5409 Adv. Psychiatric Nursing Care II: Practicum .............................................. 2
- NRSE 5410 Interpersonal Treatment Modalities: Practicum .............................................. 3
- NRSE 5411 Interpersonal Treatment Modalities: Practicum .............................................. 3
- NRSE 5950 Internship in Advanced Nursing Practice .............................................. 4
- NRSE 6513 Case Management .............................................. 2

**Nursing Administration Specialty Courses**

In addition to the M.S.N. core courses, students in the Nursing Administration specialty will complete the following courses:

- NRSE 5501 Leadership in Nursing Administration .............................................. 1
- NRSE 5520 Fiscal Management in Nursing .............................................. 3
- NRSE 5530 Health Care Org. & Law .............................................. 3
- NRSE 5535 Quality Management in Health Care Org. .............................................. 3
- NRSE 5550 Human Resource Mgmt. in Health Org. .............................................. 3
- NRSE 5510 Organizational Theory .............................................. 3
- NRSE 5560 Nursing Administration Practicum I .............................................. 2
- NRSE 5570 Nursing Administration Practicum II .............................................. 2
- NRSE 5590 Strategic Planning for Health Care .............................................. 3
- NRSE 6513 Case Management .............................................. 2
- NRSE 6711 Health Care Informatics .............................................. 1

**Master of Science - Clinical Nurse Leader (CNL)**

**Clinical Nurse Leader Specialty Courses**

In addition to the M.S.N. core courses, students in the Clinical Nurse Leader specialty will complete the following courses:

- NRSE 5009 Health Assessment Throughout the Lifespan .............................................. 3
- NRSE 5010 Health Assessment Throughout the Lifespan: Practicum .............................................. 3
- NRSE 5016 Advanced Pathophysiology .............................................. 3
- NRSE 5210 Advanced Pharmacology for Non-Prescribers .............................................. 3
- NRSE 5220 Microsystem Management for the CNL .............................................. 3
- NRSE 5520 Fiscal Management in Nursing Admin. .............................................. 3
- NRSE 5535 Quality Management in Health Care .............................................. 3
- NRSE 55220 Population-based Clinical Nursing Care .............................................. 3
- NRSE 55850 Clinical Nurse Leader Internship .............................................. 4
- NRSE 6513 Case Management .............................................. 2
- NRSE 6711 Health Care Informatics .............................................. 3
- Elective .............................................. 3

**Master of Science in Nursing**

**Regents Online Degree Program**

The Master of Science in Nursing (MSN) degree is offered through the Regents Online Degree Program (RODP), and is delivered following the standard protocol established for the delivery of RODP courses and programs. The program includes four concentrations: Nursing Education, Nursing Administration, Nursing Informatics, and Advanced Practice. Courses are offered each semester (fall, spring, and summer) through all six Tennessee Board of Regents universities. The program requires completion of 32-45 semester credit hours depending on the concentration. For more information, please visit www.tn.regentsdegrees.org/msn.

**Program Admission Requirements**

All candidates must apply to the Regents Online Degree Program before applying to the home school. The RODP application can be found at www.rodp.org.

Admission to the program will be based on competitive selection from the pool of applicants who meet the School of Graduate Studies admission requirements from the designated home school. Additional admission requirements for the Master of Science in Nursing Regents Online Degree Program include:

1. Eligibility to practice as a Registered Nurse in Tennessee or the state in which clinical assignments are completed. Appropriate licensure/authorization must be obtained during the first semester following admission to the program.
2. Overall G.P.A. of 3.0 on a 4.0 scale.
3. TOEFL score of 600 if native language is not English.
4. A written document prepared by the applicant that includes a resume, a discussion of prior professional experience, future career goals, and reasons for pursuing graduate study.
5. Letters of recommendation from at least three persons (a minimum of one academic) familiar with the applicant's academic and professional background and experience in nursing practice, specifying in detail the applicant's capabilities for graduate study and for future practice as an advanced practice nurse.
6. A Bachelor's degree:
   a. Requirements for the RN with a BSN degree: completion of the BS.
   b. Requirements for the RN with a BA/BS non-nursing degree: completion of the following 12 units RN/MSN nursing bridge sequence: NURS 4210 Healthcare Research; NURS 4211 Nursing Leadership and Management; NURS 4212 Trends and Issues in Nursing and Healthcare; NURS 4213 Community Health Nursing.

**Documentation of the above requirements must be included with the application materials submitted to the School of Graduate Studies. All applications will be reviewed by the College of Nursing Graduate Admissions Committee. Application submitted after the application deadline will not be considered. Application deadlines are as follows: fall semester deadline is February 1; spring semester deadline is July 1; summer semester deadline is December 1.**

Factors given consideration in the admission decision include the following: Grade Point Average, professional work experience, demonstration of professional commitment through continuing education, professional honors and awards, writing ability, demonstrated interest in primary care in rural settings, and references. A personal interview may be required.

Applicants may obtain a copy of College of Nursing policies pertaining to graduate students, including the substance abuse policy, clinical course requirements, and information on Core Performance Standards from the College of Nursing Office of Academic Programs and Student Services. After admission to the program, students will receive the College of Nursing Student Handbook and must sign forms indicating they have read the College of Nursing policies and agree to abide by them.
Before entrance into clinical courses, students must be licensed or authorized to practice professional nursing in the state in which clinical assignments will be completed, demonstrate evidence of professional malpractice insurance in the amount of $1,000,000/$3,000,000 coverage, have current CPR certification and a knowledge of universal precautions, and comply with the clinical requirements of the College of Nursing. A student may be asked to present evidence of physical or mental health at any time during the nursing program, and continuance in the program may be contingent upon this evidence. Students are required to provide their own transportation to clinical sites.

**Progression Standards - MSN-RODP**

Students in the graduate nursing program must meet the requirements of the School of Graduate Studies to remain in good standing. An overall grade point average (GPA) of 3.0, “B” or better must be maintained. In addition, a student must achieve a grade of “C” or better in every required course in the graduate nursing program. A student who receives less than a “C” grade in any required graduate course will be recommended for dismissal from the program. If dismissed, a student has the option to apply for reinstatement.

**Degree Requirements - MSN-RODP**

Students enrolled in the Nursing Administration specialty must satisfactorily complete 34 credit hours of coursework. Students in the Nursing Education specialty must complete 33 credit hours and students in the Advanced Practice specialty must complete 46 credit hours. Specific courses are required of students who plan to take a national certification examination. All students are required to pass a written comprehensive examination or satisfactorily complete the clinical requirements of the College of Nursing. A student is required to provide evidence of professional standards for practice including the following:

- Current CPR certification and knowledge of universal precautions, and
- A student authorized to practice professional nursing in the state in which clinical assignments will be completed, and
- Students enrolled in the Master of Science in Nursing - Regents Online Degree Program (MSN-RODP) will complete the following core courses and additional specialty nursing courses.

**Nursing Education Courses:**

- NURS 5000 Theoretical Foundations .................................. 3
- NURS 5001 Health Care Policy ............................................. 3
- NURS 5002 Advanced Nursing Research ................................. 3
- NURS 5003 Advanced Role Development ............................... 3
- NURS 5990 Scholarly Synthesis/Research .............................. 3

**Advanced Practice Concentration Courses:**

Additional courses required in the Advanced Practice concentration include the following:

- NURS 5101 Advanced Health Assessment .............................. 3
- NURS 5102 Advanced Health Assessment - Clinical .................. 1
- NURS 5103 Advanced Pathophysiology ................................. 3
- NURS 5104 Advanced Pharmacology ..................................... 3

**Family Nurse Practitioner Courses:**

Additional courses required in the Family Nurse Practitioner specialty include the following:

- NURS 5601 Family Nurse Practitioner I ............................... 3
- NURS 5602 Family Nurse Practitioner I - Clinical ................. 2
- NURS 5603 Family Nurse Practitioner II ............................... 3
- NURS 5604 Family Nurse Practitioner II - Clinical ................. 4
- NURS 5605 Family Nurse Practitioner III ............................. 3
- NURS 5606 Family Nurse Practitioner III - Clinical ............... 2
- NURS 5609 Adv. Family Nurse Practitioner Practicum .......... 4

**Nursing Administration Courses:**

Additional courses required in the Nursing Administration specialty include the following:

- NURS 5301 Nursing Administration I .................................. 3
- NURS 5302 Nursing Administration II ................................ 3
- NURS 5303 Health Care Finance ........................................... 3
- NURS 5304 Human Resources Management ............................ 3
- NURS 5305 Quality Mgmt. in Nursing and Health Care .......... 3
- NURS 5309 Nursing Administration Practicum ..................... 4

**Nursing Education Courses:**

Additional courses required in the Nursing Education specialty include the following:

- NURS 5201 Theories of Nursing Education ............................ 3
- NURS 5202 Teaching Strategies & Evaluation Methods .......... 3
- NURS 5203 Curriculum Design .............................................. 3
- NURS 5103 Advanced Pathophysiology ................................. 3

Students enrolled in the Nursing Education specialty must complete 6 hours from one of the following clinical areas:

**Advanced Nursing Practice Graduate Certificate—Post Master's**

- NURS 5207 Clinical Focus Practicum .................................... 2
- NURS 5209 Nursing Education Practicum ............................. 4

Advanced Nursing Practice Graduate Certificate

Regents Online Degree Program

Family Nurse Practitioner Certificate - Post Master's

Registered nurses who already hold a Master of Science in Nursing (M.S.N.) degree are eligible to apply to the post-master’s certificate program and complete courses which qualify them to take a national credentialing examination for certification as nurse practitioners. Prospective students must submit a completed application to the School of Graduate Studies which includes official transcripts from all previous undergraduate and graduate coursework, a completed personal essay, a vitae/résumé, and three (3) professional letters of recommendation. GRE reports are not required. Criteria for admission includes:

1. A Master of Science in Nursing (M.S.N.) from a program accredited by the National League for Nursing Accrediting Commission (NLNAC) or the Commission on Collegiate Nursing Education (CCNE);
2. A “B” average (3.0 on a 4.0 scale) in the nursing major; and
3. Licensure in the United States as a registered nurse and eligibility for licensure in Tennessee or compact state.

Admission to the post-master's certificate program will be accomplished in the same manner as for the master's nursing degree program. A minimum of nineteen (19) credit-hours is required for the certificate in Advanced Nursing Practice. Required courses for the Family, Adult, Psychiatric Mental Health, or Gerontological Nurse Practitioner post-master’s certificate include: ALNU 5009/10 Health Assessment Throughout the Lifespan; PMINU 5004 Seminar in Professional Roles; two (2) or more of the specialty didactic and practica course combinations; and FCNNU 5950 Internship in Advanced Nursing Practice. In addition, all nurse practitioner students will be required to take ALNU 5016 Pathophysiology for Nursing Diagnoses and Interventions, and ALNU 5018 Advanced Clinical Pharmacology, if not previously taken for academic credit. Adult and Gerontological Nurse Practitioner students will take ALNU 5038, Pharmacology and Therapeutics for Older Adults and Family Nurse Practitioner students will take PMINU 5402 Behavioral Health Concepts for Adults. An individualized program of study will be designed for each student admitted to the master's certificate program.

**Advanced Nursing Practice Graduate Certificate**

Regents Online Degree Program

Family Nurse Practitioner Certificate - Post Master's

**Nursing Informatics Courses:**

Additional courses required in the Nursing Informatics specialty include the following:

- NURS 5401 Informatics & Information Management ............... 3
- NURS 5402 Health Care Information Systems ........................ 3
- NURS 5403 Analysis & Design of Health Care Information Systems ........................................... 3
- NURS 5404 Evaluation of Health Care Information Systems .... 3
- NURS 5405 Health Care Data Analysis Techniques ............... 2
- NURS 5407 Informatics Applications/Practicum I ................. 2
- NURS 5409 Informatics Applications/Practicum II ............... 2
The Family Nurse Practitioner (FNP) Certificate Program provides a formal program of study for master's-prepared nurses in taking the national certification exam to practice as a Family Nurse Practitioner. In order to be eligible to take the certification, students must “successfully complete graduate didactic and clinical requirements of a master's nurse practitioner program, formal graduate-level certificate, or master's level NP program in the desired area of practice.” The FNP Certificate Program provides a formal program of study to meet this need for students who already have the Master of Science in Nursing degree without requiring them to complete a second master's degree. Criteria for admission includes:

1. A master's degree in nursing from an accredited program (NLNAC or CCNE).
2. Satisfactory completion of the following courses at the master's level:
   - Advanced Health Assessment - 3 semester hours
   - Advanced Health Assessment (Clinical or Lab) - 1 semester hour
   - Advanced Pathophysiology - 3 semester hours
   - Advanced Pharmacology - 3 semester hours.
3. Eligibility to practice as a Registered Nurse in Tennessee or the state in which clinical assignments are completed. Application for licensure/authorization must be obtained during the first semester following admission to the program.
4. Overall G.P.A. of 3.0 on a 4.0 scale.
5. TOEFL score of 600 if native language is not English.
6. A written document prepared by the applicant that includes a resume, a discussion of prior professional experience, future goals, and reasons for pursuing graduate study.
7. Letters of recommendation from at least three persons (a minimum of one academic) familiar with the applicant's academic professional background, and experience in nursing practice, specifying in detail the applicant's capabilities for graduate study and future practice as an advanced practice nurse.

**Family Nurse Practitioner Certificate Curriculum**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 5601</td>
<td>Family Nurse Practitioner I</td>
<td>3</td>
</tr>
<tr>
<td>NURS 5602</td>
<td>Family Nurse Practitioner I - Clinical</td>
<td>2</td>
</tr>
<tr>
<td>NURS 5603</td>
<td>Family Nurse Practitioner II</td>
<td>3</td>
</tr>
<tr>
<td>NURS 5604</td>
<td>Family Nurse Practitioner II - Clinical</td>
<td>4</td>
</tr>
<tr>
<td>NURS 5605</td>
<td>Family Nurse Practitioner III</td>
<td>3</td>
</tr>
<tr>
<td>NURS 5606</td>
<td>Family Nurse Practitioner III - Clinical</td>
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</tr>
<tr>
<td>NURS 5609</td>
<td>Advanced Family NP Practicum</td>
<td>4</td>
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<tr>
<td></td>
<td>Total Credit Hours</td>
<td>--------------</td>
</tr>
<tr>
<td></td>
<td>Total Contact Hours - Advance Family NP Clinical/Practicum</td>
<td>21</td>
</tr>
</tbody>
</table>

---

**Graduate School Contact:**

Mary Duncan; duncanmm@etsu.edu; 423-439-4302

**Mary Jo Davenport, M.S., Graduate Coordinator**

VA Building 2, Room 210
Box 70624
(423) 439-8792

David Arnall, Ph.D., Chair

VA Building 2
Box 70624
(423) 439-8793; (423) 439-8077 (FAX)
e-mail: davenpom@etsu.edu

**Faculty:**

David Arnall; Robert C. Barnhart; Ute Breese; Mary Jo Davenport; Susan Epps; Bea Owens; Duane A. Williams.

**Support Faculty:**

Thomas E. Kwasigroch; Ronald H. Baisden; Peter C. Panus.

**Doctor of Physical Therapy**

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 (BOD 03-95-24-64).

The Department of Physical Therapy offers the Doctor of Physical Therapy (D.P.T.) degree. Students may apply for entry-level (non-licensed individuals) or advanced standing (for licensed physical therapists) in the D.P.T. program. The program is designed to integrate classroom and clinical learning experiences to prepare its graduates to carry out effectively the expanding responsibilities of physical therapists as health care providers practicing in evaluative, preventive, rehabilitation and acute care settings, and in educational and research environments. Students who enter the program will have strong but diverse academic backgrounds reflecting their abilities to think independently, evaluate critically, and exercise good judgment. Additionally, students in the program should display the personal qualities of flexibility, responsibility, and sensitivity to others.

The mission of the Department of Physical Therapy is to integrate teaching, research, and service to prepare selected students as general practitioners of physical therapy; to foster faculty and student scholarship to add to the knowledge of physical therapy practice; and to provide faculty consultation and professional services to the community at large to enhance the practice and profession of physical therapy.

The academic and clinical goals of the department are to prepare physical therapy general practitioners to:

1. Examine/screen human structure and function, both normal and abnormal, across the lifespan, within the scope of physical therapy practice.
2. Integrate, bridge, and cross-match the theories, concepts, and principles of the basic and psychosocial sciences to current and future clinical practice in order to justify their evaluation and treatment management decisions;
3. Utilize information from the literature, from their evaluations, from other health care professionals, and from their experience, to develop efficient, safe, and cost-effective physical therapy treatment management programs;
4. Communicate effectively, with or without technology assistance, with patients, health care professionals, clients, family members, payers, policymakers, and the community-at-large;
5. Be sensitive to the health care environment in which they work in order to analyze, interpret, and respond to the major factors influencing health care;
6. Function in a professional manner as a member and representative of the health care team;
7. Have a basic understanding of administration/management skills as related to the practice/business of physical therapy;
8. Function as educators in the academic, clinical, and community settings as related to physical therapy; and
9. Be critical thinkers able to analyze old and new concepts, principles, research and clinical findings, technologies, and outcomes; to relate them to personal and professional values and standards; and to integrate and apply them to the practice of physical therapy as appropriate.

**Program Admission Requirements**

The physical therapy program admits students by a selective admissions process to begin matriculation in the spring semester only. All application material must be completed and received by the School of Graduate Studies by July 1. Students are encouraged to submit applications well in advance of the July deadline to allow sufficient time for processing and review. The traditional entry student will have a continuous enrollment requirement for completion of three years of full-time study in a fixed, prescribed curriculum. Graduate-level PHYT courses may not be taken prior to admission to the physical therapy program.

Students seeking admission to the professional Doctor of Physical Therapy degree program (entry-level) must meet the requirements established by the School of Graduate Studies. They must also meet the following minimum program requirements:
1. Attainment of a bachelor's degree from a regionally accredited institution (Southern Association of Colleges and Schools or equivalent);
2. Have an overall GPA of 2.70 (on a 4.0 scale) in all undergraduate coursework;
3. Have a 3.0 GPA (on a 4.0 scale) in the prerequisite courses;
4. Completion of prerequisite courses; no grade in a prerequisite course may be less than a “C” (2.0 on a 4.0 scale);
5. Submission of the Graduate Record Exam (GRE) scores;
6. Three (3) letters of recommendation with at least one from a licensed physical therapist;
7. A positive evaluation after an interview with the physical therapy Admissions Committee.

Prerequisite courses for admission consideration include the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Statistics</td>
<td>3</td>
</tr>
<tr>
<td>General Biology with Lab</td>
<td>8</td>
</tr>
<tr>
<td>General Chemistry with Lab</td>
<td>8</td>
</tr>
<tr>
<td>General Physics with Lab</td>
<td>8</td>
</tr>
<tr>
<td>*Human Anatomy</td>
<td>3-4</td>
</tr>
<tr>
<td>*Human Physiology with Lab</td>
<td>4</td>
</tr>
<tr>
<td>Exercise Physiology</td>
<td>3-4</td>
</tr>
<tr>
<td>Psychology</td>
<td>6</td>
</tr>
</tbody>
</table>

*No combined topical courses will be accepted as prerequisite courses.

Observation/clinical experience hours: There is no specific number of clinical hours required, however, each applicant is expected to have thoroughly investigated the scope and profession of physical therapy. Applicants’ understanding of the profession will be considered in their interview.

All students accepted for admission into the graduate program in physical therapy must meet the following requirements prior to enrollment in clinical practicals:

1. Medical terminology competency by either (a) having taken a medical terminology course prior to beginning the PT curriculum or (b) successfully completing a medical terminology competency examination before the end of the first semester;
2. A physical examination verifying that the student is in good health and free from communicable disease;
3. Tuberculosis screening and other immunizations required by the clinical sites;
4. Current Cardiopulmonary Resuscitation (CPR) and Basic First Aid certification;
5. Health/Accident insurance coverage;
6. Professional student liability insurance coverage;
7. The ability to perform, either unaided or with reasonable accommodation, the following essential functions for clinical practicum in physical therapy:
   a. Critical thinking ability sufficient for clinical judgment.
   b. Interpersonal abilities sufficient to interact with individuals, families, and groups from a variety of social, emotional, cultural, and intellectual backgrounds.
   c. Communication abilities sufficient for interaction with others in verbal and written form.
   d. Physical abilities sufficient to move from room to room and maneuver in small spaces.
   e. Gross and fine motor abilities sufficient to provide safe and effective physical therapy care.
   f. Auditory abilities sufficient to monitor and assess health needs.
   h. Physical ability to assist moving, transferring, and ambulating patients who have physical impairment or dysfunction.

Retention Requirements

Students in the Physical Therapy program must meet the retention standards as set forth for graduate students by the School of Graduate Studies and by the Promotion/Retention Committee of the Department of Physical Therapy. Grades shall be issued based on the 4.0 scale as set forth in the Graduate Catalog.

A physical therapy student will be considered deficient for any course grade less than an “C” (2.0), or when the overall grade point average per semester or for all semesters completed in the program is less than an “B” (3.0).

Traditional entry students will matriculate through a fixed, prescribed curriculum in a three-year, full-time program. Additional retention requirements include the following:
1. Successful completion of a comprehensive written examination at the end of the first five (5) semesters before being allowed to proceed to semesters 6 - 9 and the clinical internships;
2. Successful completion of 22 semester hours in clinical internships (semesters 6 and 7) that integrate all previous didactic and clinical coursework.

The Physical Therapy Promotion and Retention Committee will meet at a minimum at the end of each semester to determine whether each student should be promoted to the next semester, be put on probation, or be required to remediate any deficiencies before proceeding to the next semester of study. Promotion will be determined by the student's didactic performance, clinical performance, and professional behavior.

Degree Requirements

The Doctor of Physical Therapy is a non-dissertation professional degree requiring successful completion of the designated credits, including the culminating experiences. Students will complete 84 credit-hours of major field courses and 43 credit-hours of clinical education experiences for a total of 127 credit-hours.

Doctor of Physical Therapy Entry-level Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYT 6101 Functional Human Anatomy</td>
<td>6</td>
</tr>
<tr>
<td>PHYT 6102 Pathophysiology</td>
<td>4</td>
</tr>
<tr>
<td>PHYT 6103 Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYT 6111 PT Basic Skills I</td>
<td>2</td>
</tr>
<tr>
<td>PHYT 6151 Professional Issues I</td>
<td>1</td>
</tr>
<tr>
<td>PHYT 6212 PT Basic Skills II</td>
<td>2</td>
</tr>
<tr>
<td>PHYT 6213 PT Basic Skills III</td>
<td>4</td>
</tr>
<tr>
<td>PHYT 6221 Musculoskeletal I</td>
<td>4</td>
</tr>
<tr>
<td>PHYT 6261 Intro. to Research Process</td>
<td>1</td>
</tr>
<tr>
<td>PHYT 6271 Clinical Practicum I</td>
<td>2</td>
</tr>
<tr>
<td>PHYT 6304 Neuroscience</td>
<td>6</td>
</tr>
<tr>
<td>PHYT 6314 PT Basic Skills IV</td>
<td>2</td>
</tr>
<tr>
<td>PHYT 6315 Electrotherapeutics</td>
<td>3</td>
</tr>
<tr>
<td>PHYT 6322 Musculoskeletal II</td>
<td>4</td>
</tr>
<tr>
<td>PHYT 6331 Neurotherapeutic Prin. I</td>
<td>4</td>
</tr>
<tr>
<td>PHYT 6405 Pharmacology I for PT</td>
<td>2</td>
</tr>
<tr>
<td>PHYT 6416 Wound and Burn Care</td>
<td>2</td>
</tr>
<tr>
<td>PHYT 6432 Neurotherapeutics II (Pediatrics)</td>
<td>3</td>
</tr>
<tr>
<td>PHYT 6433 Neurotherapeutics III (Geriatrics)</td>
<td>2</td>
</tr>
<tr>
<td>PHYT 6452 Clinical Correlates I</td>
<td>1</td>
</tr>
<tr>
<td>PHYT 6462 Scientific Inquiry for PTs</td>
<td>1</td>
</tr>
<tr>
<td>PHYT 6472 Clinical Practicum II</td>
<td>2</td>
</tr>
<tr>
<td>PHYT 6523 Prosthetics and Orthotics</td>
<td>3</td>
</tr>
<tr>
<td>PHYT 6541 Cardiopulmonary Rehabilitation</td>
<td>2</td>
</tr>
<tr>
<td>PHYT 6553 Professional Issues II</td>
<td>2</td>
</tr>
<tr>
<td>PHYT 6554 Clinical Correlates II</td>
<td>1</td>
</tr>
<tr>
<td>PHYT 6573 Clinical Practicum III</td>
<td>2</td>
</tr>
<tr>
<td>PHYT 6663 Human Research for PT</td>
<td>1</td>
</tr>
<tr>
<td>PHYT 6674 Internship I</td>
<td>12</td>
</tr>
<tr>
<td>PHYT 6681 Administration and Management</td>
<td>2</td>
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<tr>
<td>PHYT 7706 Pharmacology II for PT</td>
<td>1</td>
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<tr>
<td>PHYT 7717 Current Trends in PT</td>
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<tr>
<td>PHYT 7764 Case Study in PT</td>
<td>1</td>
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<tr>
<td>PHYT 7775 Internship II</td>
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<tr>
<td>PHYT 7807 Imaging Studies for PT</td>
<td>2</td>
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<tr>
<td>PHYT 7855 Lifespan Development for PT</td>
<td>3</td>
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<tr>
<td>PHYT 7856 Health and Wellness Strategies in PT</td>
<td>3</td>
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<tr>
<td>PHYT 7857 Differential Diagnosis for PT</td>
<td>2</td>
</tr>
<tr>
<td>PHYT 7882 Teaching and Learning for PT</td>
<td>1</td>
</tr>
<tr>
<td>PHYT 7883 PT Management and Leadership</td>
<td>2</td>
</tr>
<tr>
<td>PHYT 7976 Internship III</td>
<td>15</td>
</tr>
</tbody>
</table>

Total Hours Required for Degree ................................... 127

The culminating experiences consists of the following:
1. Successful completion of Clinical Internship III (15 credit-hours).
2. Passing the case study oral presentation in the final semester. (The presentation is based on the written case study prepared for PHYT 7764 - Case Study in PT.)
Advanced Standing D.P.T.

Program Admission Requirements

Students who aspire to advanced standing in the professional Doctor of Physical Therapy degree program must meet the requirements for admission as established by the School of Graduate Studies. They must also meet the following program requirements:

1. Graduation from a Commission on Accreditation in Physical Therapy Education (CAPTE) accredited physical therapy program;
2. Must have an active state physical therapy license with no current sanctions;
3. Submission of the Physical Therapy Department Application Form for Advanced Standing;
4. Three (3) letters of recommendation (one from current or most recent supervisor, two from licensed physical therapists);
5. Submission of Graduate Record Exam (GRE) scores if the GPA in previous coursework for the physical therapy degree is less than 3.0 on a 4.0 scale.

Retention Requirements

Students in the Physical Therapy program must meet the retention standards as set forth for graduate students by the School of Graduate Studies and by the Promotion and Retention Committee of the Department of Physical Therapy. Grades shall be issued based on the 4.0 scale as set forth in the Graduate Catalog.

A physical therapy student will be considered deficient for any course grade less than a “C” (2.0), or when the overall grade point average per semester or for all semesters completed in the program is less than a “B” (3.0).

A student with advanced standing may progress through the curriculum on a full- or part-time basis as desired. A student with advanced standing must be continuously enrolled in the D.P.T. program unless the student receives approval for a break in enrollment from the Physical Therapy Promotion and Retention Committee. A student with advanced standing must also maintain a current state physical therapy license and be eligible for licensure in Tennessee.

The Physical Therapy Promotion and Retention Committee will meet at a minimum at the end of each semester to determine whether each student should be promoted to the next semester, be put on probation, or be required to remediate any deficiencies before proceeding to the next semester of study. Promotion will be determined by the student didactic performance, clinical performance, and professional behavior.

Degree Requirements

The Doctor of Physical Therapy is a non-dissertation degree requiring successful completion of the designated credits, including the culminating experiences. Course requirements for advanced standing students will be evaluated on an individual basis, according to the level and amount of their prior coursework. The faculty will determine the advanced standing student's individual program of study. Students admitted with advanced standing who have documentation of six hundred (600) hours of direct patient clinical practice experience within two (2)-years prior to enrollment in the D.P.T. program may opt to take nine (9) credit-hours of advanced coursework in lieu of nine (9) credit-hours of the Clinical Internship III.

The culminating experiences consist of the following:
1. Successful completion of Clinical Internship III (6-15 credit-hours).
2. Passing the case study oral presentation in the final semester. (The presentation is based on the written case study prepared for PHYT 7764 - Case Study for PT)

Graduates of East Tennessee State University’s B.S.P.T. program who are admitted with advanced standing will take the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYT 6261</td>
<td>Introduction to the Research Process</td>
<td>1</td>
</tr>
<tr>
<td>PHYT 6452</td>
<td>Clinical Correlates I</td>
<td>1</td>
</tr>
<tr>
<td>PHYT 6462</td>
<td>Scientific Inquiry for PT</td>
<td>1</td>
</tr>
<tr>
<td>PHYT 6554</td>
<td>Clinical Correlates II</td>
<td>1</td>
</tr>
<tr>
<td>PHYT 6663</td>
<td>Human Research in PT</td>
<td>1</td>
</tr>
<tr>
<td>PHYT 7706</td>
<td>Pharmacology II for PT</td>
<td>1</td>
</tr>
<tr>
<td>PHYT 7717</td>
<td>Current Trends in PT</td>
<td>1</td>
</tr>
<tr>
<td>PHYT 7764</td>
<td>Case Study in PT</td>
<td>1</td>
</tr>
<tr>
<td>PHYT 7882</td>
<td>Teaching and Learning for PT</td>
<td>1</td>
</tr>
<tr>
<td>PHYT 7855</td>
<td>Lifespan Development for PT</td>
<td>1</td>
</tr>
<tr>
<td>PHYT 7883</td>
<td>PT Management and Leadership</td>
<td>1</td>
</tr>
</tbody>
</table>

Graduates of physical therapy programs other than East Tennessee State University’s who are admitted with advanced standing will take the following courses at a minimum. Additional coursework required will be determined on an individual basis following a review of previous coursework.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYT 6663</td>
<td>Human Research in PT</td>
<td>1</td>
</tr>
<tr>
<td>PHYT 7706</td>
<td>Pharmacology II for PT</td>
<td>1</td>
</tr>
<tr>
<td>PHYT 7764</td>
<td>Case Study in PT</td>
<td>1</td>
</tr>
<tr>
<td>PHYT 7882</td>
<td>Teaching and Learning for PT</td>
<td>1</td>
</tr>
<tr>
<td>PHYT 7855</td>
<td>Lifespan Development for PT</td>
<td>1</td>
</tr>
<tr>
<td>PHYT 7883</td>
<td>PT Management and Leadership</td>
<td>1</td>
</tr>
<tr>
<td>PHYT 7856</td>
<td>Health and Wellness in PT</td>
<td>1</td>
</tr>
<tr>
<td>PHYT 7857</td>
<td>Differential Diagnosis for PT</td>
<td>1</td>
</tr>
<tr>
<td>PHYT 7807</td>
<td>Imaging Studies for PT</td>
<td>1</td>
</tr>
<tr>
<td>PHYT 7976</td>
<td>Internship III</td>
<td>6-15</td>
</tr>
</tbody>
</table>

Professional Studies

Master of Professional Studies

Concentration in Strategic Leadership

Graduate School Contact:
Gail Powers; powers@etsu.edu; 423-439-4703
Jo Lobertini, Ed.D., Assistant Dean/Chair, Graduate Coordinator
916 West Maple Street
Box 70659
(423) 439-4223
lobertini@etsu.edu

Amy Johnson, Admissions Counselor
916 West Maple Street
Box 70659
(423) 439-4223
e-mail: johnsoad@etsu.edu

Faculty:

*The Master of Professional Studies Program draws graduate faculty from throughout East Tennessee State University and Tennessee Board of Regents universities.

The Master of Professional Studies (MPS) is an online interdisciplinary graduate degree program in the social sciences and the professions. The 33-hour MPS program is designed for working adults who wish to pursue graduate professional studies that combine two or more disciplines. Because the MPS students’ academic needs and interests are multidisciplinary, they generally are not served by traditional professional programs. The MPS allows for the development of professionally oriented programs that respond to the dynamic needs of students working in or preparing for rapidly changing professional environments and expectations. In this program of interdisciplinary graduate studies, students make connections between various professional fields and traditional social science disciplines. For the purposes of the MPS program, profession is defined broadly, not limiting profession to traditional areas such as law and medicine. Professionals who might be served by the MPS program include individuals working in commerce, information technology, mass media, government, social services, health care, and education. The MPS is a Regents
Online Degree Program (RODP) offered cooperatively by all Tennessee Board of Regents universities.

Program Admission Requirements

Requirements for unconditional admission:
1. An undergraduate grade point average of at least 2.75 on a 4.0 scale from an accredited college or university.
2. An acceptable score on the GRE, generally at least 400 verbal, 500 quantitative, and a 4.0 on analytical writing.
3. Applicants with five or more years of professional work experience may submit a portfolio in lieu of the GRE. The portfolio is to include (a) a resume; (b) a 500- to 600-word essay detailing the reasons for wanting to enter the MPS program and discussing how the program will help the applicant achieve personal and professional goals; and (c) two sealed letters of professional reference. Other items that an applicant may include in the portfolio are a description of professional responsibilities, professional achievements and professional awards and recognitions. The admission decision will be based on the entire academic and professional record. All portfolio materials should be submitted in one package to the School of Graduate Studies, Box 70720, Johnson City, TN 37614.

Requirements for conditional admission:
Applicants who do not meet the requirements for unconditional admission might be admitted conditionally if their entire academic and professional records indicate potential for success in the program. Conditions may include, but are not limited to, taking prerequisite undergraduate courses, enrolling in specified graduate-level courses, and achieving a specified grade point average.

Degree Requirements

A minimum of 33 credit hours is required. Students must complete nine hours of a common core, complete a concentration of 21 hours which must include a second research class, and complete the Culminating Professional Project for three hours. The MPS core consists of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRST 5100</td>
<td>Professional Environment: Issues &amp; Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PRST 5200</td>
<td>Globalization and the Professions</td>
<td>3</td>
</tr>
<tr>
<td>PRST 5300</td>
<td>Research Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

Strategic Leadership Concentration

Strategic Leadership concentration students will complete seven of the following courses, including at least one course from each of the five subject areas:

Leadership Theory
- PRST 5500 Foundations of Leadership
- LSDP 5000 Current Issues and Cases in Leadership
- ELPA 6560 Small Group Leadership

Research/Data Analysis
- QM 5770 Computer-Based Decision Modeling
- PRST 5600 Statistical Analysis

Organizational Structure and Change
- PADM 5310 Leadership in Organization
- RST 5800 Organizational Skills and Development

Communication
- COMM 5110 Leadership and Communication
- ELPA 5700 Conflict Management and Negotiation

Strategic Planning and Assessment
- TECH 5105 Project Planning and Scheduling
- MGMT 6040 Human Resources Management

Culminating Professional Project
- PRST 5998 Professional Project

Training and Development Concentration

Concentration Common Courses: 9 credit hours (choose 3 from below)
- PRST 5410 Evaluation of Learning
- PRST 5420 Organizational Needs Analysis
- PRST 5600 Statistical Analysis
- PRST 5770 Computer Based Decision Making

Choose a Specialization 12 credit hours

On-Site Training
- TECH 5105 Project Planning and Scheduling
- PRST 5460 Training and Development
- PRST 5470 Facilitation of Learning
- Any unduplicated M.P.S. elective

Distance Training
- PRST 5430 Instructional Design for Electronic Training
- PRST 5440 Teaching Online
- PRST 5460 Computer-Based Instruction
- Any unduplicated M.P.S. elective

Culminating Professional Project 3 credit hours

Psychology

Ph.D. in Clinical Psychology
Master of Arts in Psychology

Graduate School Contact:
Gail Powers; powers@etsu.edu; 423-439-4703
Wallace E. Dixon, Jr., Ph.D., Chair
420A Rogers-Stout Hall
Box 70649
(423) 439-6656
e-mail: dixonw@etsu.edu

Peggy Cantrell, Ph.D., Director of Clinical Training
409 Rogers-Stout Hall
Box 70649
(423) 439-6660
e-mail: cantrell@etsu.edu

Russell W. Brown, Ph.D., General Psychology Coordinator
422B Rogers-Stout Hall
Box 70649
(423) 439-5863
e-mail: brown1@etsu.edu

The Department of Psychology offers a Master of Arts degree in general psychology and an articulated MA./Ph.D. program in clinical psychology.

Clinical Psychology

Articulated Master of Arts/Doctor of Philosophy Program

Contact Information:
e-mail - clinpsy@etsu.edu
Web site: http://www.etsu.edu/psychology/clinical_PhD/home.html
Phone: (423) 439-4424, Main Psychology Department
Fax: (423) 439-5695

Phone: (423) 439-6660, Peggy Cantrell, Director of Clinical Training

Program Mission and Training Philosophy:
The primary objective of the articulated master's/doctoral program in Clinical Psychology at East Tennessee State University is to provide training in clinical psychology emphasizing Rural Behavioral Health and Practice in the context of integrated primary health care.

The clinical psychology program is guided by the scientist/practitioner model and places a strong emphasis on research and interdisciplinary clinical training. Though diverse in respect to methods of inquiry and areas of study, the faculty is of one mind in promoting scientific inquiry as the foundation of clinical psychology.

The program is designed for full-time study only as a 5-year post-baccalaureate articulated M.A./Ph.D. program, with the fifth year being an off-campus full-time internship in keeping with APA/APPIC requirements.

All students receive a curriculum of general clinical training as well as training in the basic science of psychology. Thus, the first two years of the program are highly structured. Due to the emphasis in primary care and rural health practice as well as adherence to the generalistic model of training, the advanced coursework is more structured than some programs in clinical psychology, but students are afforded the opportunity for individualization through electives, research emphasis, and externship placements.

Full-time Faculty
Core Clinical Faculty:
Peggy Cantrell, Director of Clinical Training; William Dalton; Chris Dula; Jon Ellis; Jameson Hirsch; Jodi Polaha; Jon Webb.

Non-Core Faculty:
Ginni Blackhart; Russell Brown; Andrea Clements; Wallace Dixon, Jr., Department Chair; Michael Floyd, Family Medicine; Stacey Williams.

Admission Requirements
To be accepted into the Clinical program, students must apply for full-time study. Applicants to the M.A./Ph.D. degree program are evaluated once each year only, for admission in the fall semester; applicants for spring admission are not considered. All application information must have been received by February 1 for a candidate to be considered for admission. Students are admitted from two applicant pools, dependent upon level of preparation. All applications are considered with the expectation that the applicant will pursue the Ph.D. The two applicant pools are as follows:
1. Students holding a baccalaureate degree from a regionally accredited institution will be considered for the M.A./Ph.D. program. Students admitted to the Clinical Psychology Ph.D. program complete the requirements for an M.A. in Clinical Psychology (48 hour program of study with thesis) as part of their Ph.D. requirements.
2. Students already holding the M.A. or M.S. in psychology from a regionally accredited institution may also apply to the M.A./Ph.D. program. The master's degree must be commensurate with the MA program in Clinical Psychology at ETSU and involve the successful completion of an empirically-based thesis project. Students possessing a master's degree without an empirically based thesis will be required to complete an empirically-based thesis before being admitted to doctoral candidacy.

The following are required:
1. Completed department and university application forms;
2. A grade point average of at least 3.00 (based on a 4.00 scale) in undergraduate and/or graduate level work overall and in Psychology courses;
3. A minimum of 18 semester hours in undergraduate psychology, including courses in statistics, experimental design, personality, history and systems, and abnormal psychology. Students lacking some of these prerequisite courses, but presenting an exceptional undergraduate record, may be granted admission, but they will be expected to remove all undergraduate deficiencies during their first academic year;
4. GRE scores (Verbal, Quantitative, and Written Analysis) are required for application and are taken into account in the admission process;
5. Letters of recommendation from at least three persons familiar with the applicant's background and aptitude for graduate study and future performance as a psychologist;
6. A personal statement of 500-750 words indicating the applicant's academic experiences, research interests, and career goals. Prior undergraduate research interests and involvement are weighted heavily as an interest and commitment to working in a rural and/or primary care setting.
7. A willingness to be interviewed by members of the admission committee.

Offers and Acceptances
The Department of Psychology subscribes to the “Resolution Regarding Scholars, Fellows, Trainees, and Graduate Students” as adopted by the Council of Graduate Schools in the United States; and to the statement adopted by the Council of Graduate Departments of Psychology which indicates that, “An acceptance given or left in force after April 15 commits the student not to solicit or accept another offer. Offers made after April 15 must include the proviso that the offer is void if acceptance of a previous offer from a department accepting this resolution is in force on that date.”

Master level Requirements
Required Courses ......................................................... 42 hours
PSYC 5040 Rural Research and Practices ......................... 3
PSYC 5100 Legal & Ethical Issues in Psychology ................. 3
SOWK 5101 Multicultural Practice ................................... 3
PSYC 5210 Statistical Methods ......................................... 3
PSYC 5220 Personality Theories ....................................... 3
PSYC 5410 Correlation and Multiple Regression ............... 3
PSYC 5707 Adv. Behavioral Neuroscience ...................... 3
PSYC 5717 Adv. Behavioral Neuroscience Lab .................. 1

PSYC 56X0 Seminar in Core Area of Psychology, as advised ......................................................... 3
PSYC 5825 Psychopathology ............................................ 3
PSYC 5830 Psychological Assessment I: Adults ................ 3
PSYC 5850 Psychological Assessment II: Children .......... 3
PSYC 5870 Interviewing Techniques in Clinical Psychology .... 3
PSYC 5910 Clinical Clerkship (2 terms) ....................... 2

Thesis
PSYC 5960 Thesis (2 terms) .......................................... 6
Total Required Credits ............................................ 48

Doctoral level Requirements
Major Field Core ...................................................... 30 hours
PMNU 5303 Psychopharmacology .................................. 3
PHYT 6102 Pathophysiology .......................................... 4
PSYC 6600 Rural Case Oriented Learning & Preceptorship ... 3
PSYC 6870 Evidence-based Interventions ......................... 3
PSYC 7000 Doctoral Preliminary Project ......................... 3
PSYC 7100 Primary Care Psychology I ............................ 3
PSYC 7500 Cultural Anthropological Application ............. 3
One of the following courses ........................................ 3
PSYC 6210 Meta-Analytic Research Methods OR
PSYC 6410 Covariate Structural Modeling OR
PSYC 7812 Qualitative Research

Guided Electives ..................................................... 15
(supervised by a dissertation supervisor)
PSYC 6210 Meta-Analytic Research Methods .................... 3
PSYC 6410 Covariate Structural Modeling ....................... 3
PSYC 6810 Advanced Clinical Interviewing .................... 3
PSYC 7110 Primary Care Psychology II .......................... 3
PSYC 7300 Mental Health Consultation and Administration ... 3
PSYC 7550 Community Assessment and Intervention ........ 3
PUBH 5050 Health Care Accounting and Finance ............. 3
PUBH 5900 Grant and Proposal Development .................... 3
PSYC 7400 Family Systems: Research and Assessment ....... 3
PSYC 7450 Group Processes: Process and Intervention ...... 3
PSYC 7410 Advanced Child Psychopathology ................... 3
PSYC 7420 Substance Abuse Psychology ......................... 3
PSYC 7900 Independent Study in Research ..................... 3

Other Requirements .................................................. 23
PSYC 7910 Clinical Externship ..................................... 8
PSYC 7960 Dissertation ............................................. 12
PSYC 7980 Pre-Doctoral Internship ............................... 3
Total Required Credits ............................................ 63

All students must be competent in the diverse core areas of psychology as specified by the American Psychological Association. Core competence will be demonstrated by completion of coursework covering core areas as well as passing the written comprehensive exam. Core areas include: Biological Aspect of Behavior, Cognitive and Affective Aspects of Behavior, Social Aspects of Behavior, History and Systems, Psychological Measurement, Research Methods, Data Analysis, and Human Development.

Students must also demonstrate proficiency in substantive areas representing the current body of knowledge in the field of clinical psychology in Assessment and Diagnosis, Psychological Interventions, Theoretical Models of Personality and Treatment, and Behavioral Health.

Transfer of Credit
Students with graduate credit earned at another institution, upon matriculation at ETSU, may petition to have these credits applied toward their degree requirements at ETSU. While such credits are not automatically transferred and must be approved by the Dean of Clinical Training and the School of Graduate Studies, a maximum of 9 semester hours earned elsewhere could be applied. For students who have attained a master's degree in Psychology, a maximum of 48 semester hours may be applied toward the M.A./Ph.D. degree requirements.

Waiving Core Course Requirements
Students may petition to waive specific courses through examination. The designated course instructor, along with the DCT, will review petitions. Students must present evidence of completion of a similar course to that in the petition, transcript evidence, and a course syllabus constitute the required
documentation. Upon approval to sit for a waiver examination, students will be provided an opportunity for examination by the designated course instructor, and the course instructor will determine pass or failure of the examination. If the examination is passed, the instructor will recommend a course waiver to the DCT. The total number of degree hours will not be reduced, but an alternate course may then be substituted for degree credit.

Students who enter the Ph.D. program after completing graduate level courses at another university may wish to request waivers of required core courses. Requests for waivers should be made during the student's first semester of academic study, but may be considered later. Comparability of the prior coursework to the core courses in the department is the primary criteria for granting a waiver. Students should first consult with the current instructor of the course they wish to waive and provide him or her with documentation of the completed course that will serve as basis for the waiver. Normally, this documentation would include copies of:
1. the transcript (unofficial is acceptable) showing a final grade of B or higher in the completed course;
2. the completed course syllabus, text, and reading lists;
3. tests, notes, projects, etc., from the completed course (if available).

Although the instructor may offer an informal opinion on the comparability of the completed course, the instructor does not make the final decision on waiving core courses alone. If the student wishes to pursue the waiver, the student should then submit a formal letter to the Director of Clinical Training requesting the waiver. The written request should be accompanied by the documentation of the course that serves as the basis for the waiver. Requests for waivers of multiple core courses should be submitted with separate cover letters.

The Director of Clinical Training will submit the waiver request and documentation to the Core Curriculum Committee, which consists of the Director of Clinical Training and core course instructors within the department. This committee makes the final decision on the request for a waiver of a core course. The Director will then notify the student of the committee's decision and place a letter of notification in the student's file.

Matriculation Requirements

Students are referred to the ETSU Graduate Catalog for School of Graduate Studies academic requirements. Specific departmental requirements also apply. All students in the M.A./Ph.D. program are expected to be enrolled as full-time students and to devote themselves full time to their graduate pursuits during their enrollment in degree-related activities. Students are expected to be active in research collaboratively with members of the department faculty each semester they are enrolled. In addition to coursework and research, students are required to participate in clinic and field experiences commensurate with their level of training and type of graduate assistantship.

Student Handbook for the ETSU Clinical Psychology Graduate Program

Matriculating students are responsible for adherence to procedures and policies outlined in this catalog as well as those contained in the Student Handbook for the ETSU Clinical Psychology Graduate Program. Refer to that document for critical departmental guidelines and policies concerning Clinical and Professional Learning Experiences, Documentation of Clinical Experience and Supervision, Annual Student Evaluations, additional Ph.D. requirements, Thesis and Dissertation Guidelines, Comprehensive Examination, Oral Defenses, Academic Performance requirements, Academic Probation, Dismissal, and Appeal, Clinic Responsibilities, Graduate Assistantships, and Professional Development.

Master of Arts Degree in General Psychology

The general psychology degree provides students with advanced training in the field of psychology leading to careers in diverse areas of research and teaching in psychology, and prepares students for doctoral work in psychology.

Admission Requirements—The following are required for admission to the program:
1. Scores of 500 on the verbal, quantitative, and subject (psychology) portions of the Graduate Record Examination (GRE).
2. A 3.0 overall grade point average and a 3.0 average in psychology.
3. A major in psychology.

4. At least one (1) course in statistics and one (1) laboratory course in psychology.
5. Three (3) letters of recommendation, at least two (2) from former college instructors.
6. Personal statement of goals.

Applications with weak credentials in one (1) area (i.e., a low score in quantitative methods on the GRE), will be considered for admission if they have strong credentials in another area (i.e., a 3.5 grade point average or very strong letters of recommendation). All materials must be received by March 1st - fall only admission. Candidates submitting application thereafter are less likely to receive financial aid. Applicants should also refer to the Graduate School policies on application deadlines as outlined in this catalog. The clinical and general options normally admit students only for the fall semester. All applications are reviewed by a departmental admissions committee. A telephone or personal interview may be required.

The Content Breadth Requirements for master's level students in the psychology graduate program include:
1. Learning and Cognition—which, if not met at the undergraduate-level, can be met by taking EITHER Perception (PSYC 5317) or a Topical Seminar (PSYC 56xx) with content relative to learning or cognition.
2. Individual Differences—which, if not met at the undergraduate-level, can be met by taking EITHER Social Psychology Topical Seminar (PSYC 5620), Personality Theories (PSYC 5220), Psychopathology (PSYC 5825), Introduction to Psychological Testing (PSYC 5817), or Clinical Topical Seminar (PSYC 5660).

General Psychology Requirements—All students electing general psychology must complete the following core courses:
- PSYC 5210 Statistical Methods ........................................ 3
- PSYC 5410 Correlation and Multiple Regression ............. 3
- PSYC 56xx Topical Seminar Series ............................... 12
- PSYC 5800 Teaching in the Psychological Sciences .......... 3
- PSYC 5900 Independent Study: Research ...................... 3
- PSYC 5950 Methods of Research ................................. 3
- PSYC 5960 Thesis ......................................................... 6
- Approved Elective* .................................................... 3

Total Hours General Psychology ................................. 36

The approved elective will be chosen based on the student's interests and with the guidance of the student's advisor.

Public Administration

Master of Public Administration

Master of City Management

Graduate School Contact:
Rene Palumbo; palumbo@etsu.edu; 423-439-6158

Dr. J. David Briley, Graduate Coordinator
Associate Professor of Political Science
219 Rogers-Stout Hall
Box 70651
(423) 439-6697
e-mail: briley@etsu.edu

Weixing Chen, Chair, Department of Political Science, International Affairs, and Public Administration
301A Rogers-Stout Hall
Box 70651
(423) 439-6632
e-mail: chen@etsu.edu

Faculty:
David Briley; Lon Felker; Michael Marcioni; Paul Trogen.

The Master of Public Administration (M.P.A.) is a nonbusiness degree that offers an outstanding education for men and women seeking an exciting career in the public or non-profit sector. Students may enter the program from any undergraduate major. The M.P.A. is a highly marketable degree for entry into the fields of city management, urban planning, industrial recruitment, community development, non-profit administration, public budgeting, and financial management. The demand for trained public and non-profit managers has steadily increased, both in this region and beyond.

—All students electing general psychology must complete the following core courses:
The M.P.A. program builds on a long tradition of higher education in city management with a unique degree offering. Students who complete requirements for the city management concentration will receive the Master of City Management (M.C.M.) degree. This allows students who wish to pursue careers in city management to have a unique degree which is widely recognized throughout the region. Students choosing other concentrations will be awarded the M.P.A. degree.

Admission Requirements

A student applying to the M.P.A. program must meet both the requirements for admission to the university as a graduate student and the admission criteria for the program. The student must submit transcripts of all academic work previously completed, scores on the verbal and quantitative sections of the Graduate Record Examination (GRE), and three letters of recommendation. Admission criteria include satisfactory undergraduate grade point average, satisfactory GRE scores, and letters of recommendation. Questions about admission requirements should be directed to the M.P.A. director.

Students admitted to other graduate programs in the university may enroll in public administration courses (prefix PMGT) if they have completed the prerequisites, if any.

Course Requirements

Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMGT 5100</td>
<td>Introduction to Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PMGT 5120</td>
<td>Public Personnel Management</td>
<td>3</td>
</tr>
<tr>
<td>PMGT 5140</td>
<td>Public Organization Theory</td>
<td>3</td>
</tr>
<tr>
<td>PMGT 5160</td>
<td>Public Budgeting and Finance</td>
<td>3</td>
</tr>
<tr>
<td>PMGT 5180</td>
<td>Public Policy Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PMGT 5637</td>
<td>Local and Regional Planning</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Core Hours: 18

Concentration

Total Concentration Credit Hours (See below): 12

Capstone Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMGT 5800</td>
<td>Public Management Internship or PMGT 5820</td>
<td>3</td>
</tr>
<tr>
<td>PMGT 5840</td>
<td>Public Management Report</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Capstone Hours: 6

*These courses fulfill the Culminating Experience requirement in the M.P.A. program.

Total Credit Hours Required for Degree: 36

City Management Concentration

This concentration is designed for students who wish to pursue a degree in urban administration or local government administration.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMGT 5200</td>
<td>Administrative Law and Practice</td>
<td>3</td>
</tr>
<tr>
<td>PMGT 5500</td>
<td>City Management Profession</td>
<td>3</td>
</tr>
<tr>
<td>PMGT 5520</td>
<td>Urban Government</td>
<td>3</td>
</tr>
<tr>
<td>Guided Elective (with permission of Director)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Concentration Hours: 12

Students selecting this concentration will receive the Master of City Management (M.C.M.) degree.

Economic Development Graduate Certificate

This 15-hour graduate certificate program provides training in the theory and practice of economic development.

Admission: Undergraduate degree, and either 3.0 GPA or 900 score on verbal plus quantitative portions of the GRE.

Major Field Core: 6

ECON 5447 Urban and Regional Economics
PMGT 5347 Economic Development Planning

Guided Electives: 9

ECON 5000 Essentials of Economics
FNCE 5000 Essentials of Finance
GEOG 5217 Geographic Information Systems
GEOG 5317 Adv. Geographic Information Systems
PMGT 5240 Seminar in Public Management

PMGT 5955 Topics in Public Management
PMGT 5087 Recreation and Tourism Planning
PMGT 5637 Local and Regional Planning

Or another relevant elective of three credits or more with approval of MPA Director.

Total Credit Hours Required for Certificate: 15

Not-For-Profit Administration Concentration

This concentration is designed for students who wish to work in not-for-profit organizations.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMGT 5300</td>
<td>Not-For-Profit Resource Development</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6955</td>
<td>Grant and Proposal Development</td>
<td>3</td>
</tr>
<tr>
<td>PMGT 5750</td>
<td>Public Sector Financial Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Required Hours: 9

One Guided Elective from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 5717</td>
<td>Not-For-Profit Accounting</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 5010</td>
<td>Essentials of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>PMGT 5240</td>
<td>Seminar in Public Management</td>
<td>3</td>
</tr>
<tr>
<td>PMGT 5955</td>
<td>Topics in Public Management</td>
<td>3</td>
</tr>
<tr>
<td>ELPA 6955</td>
<td>Grant and Proposal Development</td>
<td>3</td>
</tr>
<tr>
<td>PMGT 5347</td>
<td>Economic Development and Planning</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Elective Hours: 3

Students in the Not-For-Profit Concentration may take SOCI 5320 in place of PMGT 5180 in the M.P.A. core. Students selecting this concentration will receive the Master of Public Administration (M.P.A.) degree.

Planning and Development Concentration

This concentration is intended for students with a professional interest in urban planning, economic development, and community development.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMGT 5020</td>
<td>Urban Planning Theory</td>
<td>3</td>
</tr>
<tr>
<td>PMGT 5107</td>
<td>Urban Geography and Planning</td>
<td>3</td>
</tr>
<tr>
<td>PMGT 5347</td>
<td>Economic Development and Planning</td>
<td>3</td>
</tr>
<tr>
<td>Guided Elective (with permission of Director)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Concentration Hours: 12

Students selecting this concentration will receive the Master of Public Administration (M.P.A.) degree.

Public Financial Management Concentration

This concentration is intended for students interested in public budgeting and public finance.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 5717</td>
<td>Not-for-profit Entity Accounting</td>
<td>3</td>
</tr>
<tr>
<td>PMGT 5280</td>
<td>Seminar in Public Risk Management</td>
<td>3</td>
</tr>
<tr>
<td>PMGT 5750</td>
<td>Public Sector Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>Guided Elective (with permission of Director)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Concentration Hours: 12

Students selecting this concentration will receive the Master of Public Administration (M.P.A.) degree.

Urban Planning Graduate Certificate

Dr. J. David Briley, Interim Director

Associate Professor of Political Science

219 Rogers-Stout Hall

Box 70651

(423) 439-6697
e-mail: briley@etsu.edu

This 15-hour graduate certificate program provides training in urban planning theory, local and regional planning, and related subjects. Urban planning is one of the fastest growing professions in the U.S.
Admission Requirements: Graduate Record Exam, undergraduate transcripts, application form, and essay.

Major Field Core ................................................. 9 credit hours
PMGT 5637 Local and Regional Planning .................................. 3
PMGT 5020 Urban Planning Theory .................................. 3
PMGT 5107 Urban Geography and Planning .................................. 3
Electives ..................................................... 6 credit hours

Any two of the following courses:
GEOG 5217 Geographic Information Systems .................................. 3
GEOG 5317 Advanced Geographic Info. Systems .................................. 3
PMGT 5347 Economic Development Planning .................................. 3
UPMG 5087 Recreation and Tourism Planning .................................. 3

Total Credit Hours Required ............................................. 15

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Public Health

Graduate School Contact:
Mary Duncan; duncanm@etsu.edu; 423-439-4302

Doctor of Public Health

Robert Pack, Ph.D., M.P.H., Dr.P.H. Coordinator
College of Public Health
Box 70623
423-439-4540
e-mail: pader@etsu.edu

Doctor of Public Health Degree

The Doctor of Public Health (Dr.P.H.) program offers an advanced professional degree designed for those who wish to pursue or further their career in public health practice. It prepares practitioners with competence in administration, advocacy, problem solving, research, and communication. Graduates are qualified to serve in a variety of leadership capacities at state, national, and international levels, enhancing the public’s health in both rural and urban settings. Two areas of concentration currently exist within the degree - community health and epidemiology. For more information on admission and degree requirements see the Dr.P.H. entries under the Community Health Department or Biostatistics and Epidemiology Department, respectively.

Program Admission Requirements

(Admission deadline: March 1)

Admission to the Doctor of Public Health program is competitive and based on scholarship, letters of recommendation, and evidence of potential success, including:

1. Evidence of successful completion of an M.P.H. or equivalent degree in a related field from a regionally accredited institution of higher learning in the United States.
2. Application form and accompanying fee.
3. One official transcript of all previous undergraduate and graduate work (except previous coursework completed at ETSU).
4. A personal essay that includes a written statement of career and educational goals, professional experience, and prospective area of interest for the dissertation.
5. Official scores from the Graduate Record Examination (GRE) taken within the past 5 years (except for those with a doctoral degree from a regionally accredited institution within the United States). Preferred scores are at or above the 50th percentile for verbal and quantitative sections.
6. Four letters of recommendation from individuals who can attest to the applicant's academic, professional, or personal achievement, competence, ethics, and potential.

Note: Applications are accepted once a year only, for entry into the fall semester. Completed applications must be received in the School of Graduate Studies by March 1 for consideration.

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Biostatistics and Epidemiology Concentration

Purpose

The Department of Biostatistics and Epidemiology offers the Dr.P.H. degree with a concentration in epidemiology. Graduates will have advanced professional skills and knowledge in the identification of causes of health and illness in human populations and the application of this knowledge to disease prevention and control.

Admission Requirements

Note: Applications for all programs in the Department of Biostatistics and Epidemiology are to be sent to the School of Graduate Studies. Please see the ETSU Graduate Studies web site for instructions, requirements, and application forms.

Degree Requirements

Core DrPH Courses

PUBH 5350 Biostatistics II ................................................. 3
PUBH 5405 Epidemiology II ................................................. 3
PUBH 6100 Environmental Concerns in Public Health .................................. 3
PUBH 6110 Social and Behavioral Determinants of Health and Disease .................................. 3
PUBH 6130 Public Health Leadership, Policy Development, and Ethics .................................. 3
PUBH 6150 Evaluation Research in Public Health .................................. 3
PUBH 6160 Systems Approaches to Public Health Issues .................................. 3
PUBH 6170 Research Applications in Public Health .................................. 3
PUBH 6195 Seminar in Public Health ............................................. 1

Total Core Hour Requirements ............................................. 25

Epidemiology DrPH Concentration Courses

MATH 5307 Sampling and Survey Techniques .................................. 3
PUBH 6410 Advanced Multivariate Analysis .................................. 3
PUBH 6420 Applied Epidemiologic Analysis .................................. 3
PUBH 6435 Field Epidemiology ................................................. 3

Total Concentration Hour Requirements ............................................. 12

Epidemiology DrPH Electives - selected in consultation with program academic advisor ............................................. 6

Suggested Electives:
PUBH 6440 Cardiovascular Epidemiology .................................. 3
PUBH 6450 Cancer Epidemiology ................................................. 3
PUBH 6460 Reproductive & Perinatal Epidemiology .................................. 3

Culminating Experience for DrPH in Epidemiology Concentration

PUBH 6850 Doctor of Public Health Practicum .................................. 6
PUBH 6960 Doctor of Public Health Dissertation .................................. 9

Total Culminating Experience Hour Requirements .................................. 15

Total Credit Hours Required for DrPH in Epidemiology .................................. 58

Graduation Requirements

Completion of the Dr.P.H. degree will require (1) a minimum of 58 semester credit hours of coursework beyond the master's degree as described; (2) a minimum cumulative grade point average of 3.0 on a 4.0 scale; (3) passing doctoral comprehensive candidacy examination; (4) satisfactory completion of a practicum; (5) passing the preliminary oral examination; (6) completing a dissertation of publishable quality; and (7) passing the final dissertation defense. All students must pass Institutional Review Board certification sponsored by ETSU if working with human subjects, as well as HIPAA certification if their research/practicum falls under the requirements to secure the privacy and confidentiality of patient records.

Community Health Concentration

Doctor of Public Health (Dr.P.H.)

Information concerning the concentration in Community Health Sciences appears below:

Dr.P.H. Degree Requirements

Core Courses

PUBH 5350 Biostatistics II ................................................. 3
PUBH 5405 Epidemiology II ................................................. 3
PUBH 6100 Environmental Concerns in Public Health .................................. 3
PUBH 6110 Social and Behavioral Determinants of Health and Disease .................................. 3
PUBH 6130 Public Health Leadership, Policy Development, and Ethics .................................. 3
PUBH 6150 Evaluation Research in Public Health .................................. 3
PUBH 6160 Systems Approaches to Public Health Issues .................................. 3
PUBH 6170 Research Applications in Public Health .................................. 3
PUBH 6195 Seminar in Public Health ............................................. 1

Total Core Hour Requirements ............................................. 25

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**Community Health Concentration**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUBH 6210</td>
<td>Health Assessment &amp; Surveillance Research</td>
<td>... 3</td>
</tr>
<tr>
<td>PUBH 6220</td>
<td>Methods in Community Health Research</td>
<td>........ 3</td>
</tr>
<tr>
<td>PUBH 6240</td>
<td>Organizing Communities for Health Action</td>
<td>... 3</td>
</tr>
<tr>
<td>PUBH 6250</td>
<td>Evidence-Based Public Health: Best Practices in Community Health</td>
<td>........ 3</td>
</tr>
</tbody>
</table>

**Total Concentration Hour Requirements** ........................................... 12

**Electives (selected in consultation with academic advisor)** ..... 6

**Culminating Experience**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUBH 6850</td>
<td>Doctor of Public Health Practicum</td>
<td>........ 6</td>
</tr>
<tr>
<td>PUBH 6960</td>
<td>Doctor of Public Health Dissertation</td>
<td>........ 9</td>
</tr>
</tbody>
</table>

**Total Culminating Experience**

**Hour Requirements** .................................................................. 15

**Total Credit Hours Required for Dr.P.H.** ............................ 58

**Dr.P.H. Graduation Requirements**

Completion of the Dr.P.H. degree will require (1) a minimum of 58 semester credit hours of coursework beyond the master’s degree as described; (2) a minimum cumulative grade point average of 3.0 on a 4.0 scale; (3) passing the doctoral comprehensive candidacy examination; (4) satisfactory completion of a practicum; (5) passing the preliminary oral examination; (6) completing a dissertation of publishable quality; and (7) passing the final dissertation defense. All students must pass Institutional Review Board certification sponsored by ETSU if working with human subjects, as well as HIPAA certification if their research/practicum falls under the requirements to secure the privacy and confidentiality of patient records.

**Master of Public Health**

**Brian C. Martin, Ph.D., M.B.A., M.P.H. Coordinator**

College of Public Health  
42 Lamb Hall  
Box 70264  
(423) 439-4429  
e-mail: martinb@etsu.edu

**Master of Public Health Degree**

The Master of Public Health program offers a competency-based approach to professional preparation for public health practice in any of five areas – Biostatistics, Community Health, Environmental Health, Epidemiology, and Public Health Administration. Each concentration provides students with the requisite skills to work in the respective area.

Many courses are available online through distance education technology. Fully online concentrations of study exist for Epidemiology and Public Health Administration. Others are being planned. Please contact the graduate coordinator for more information.

**Biostatistics** is a quantitative field in which students learn how to collect, manage, and analyze public health data. This curriculum provides instruction in basic analytical methods and the use of statistical software. See Department of Biostatistics and Epidemiology.

**Community Health** affords the student the opportunity to learn how to interact with communities for the purpose of health education and promotion; how to develop and conduct health assessments and program evaluations; and the importance of establishing collaborative organizational and community partnerships. See Department of Community Health.

**Environmental Health** prepares specialists who understand the interrelationships between chemical, biological, and physical factors in the environment, and social and organizational factors in the human community. Students will become proficient in the assessment of community environmental health needs by collecting, analyzing, and reporting appropriate data, and will develop expertise in investigating, monitoring, and managing environmental problems that may have an impact on the public’s health.

**Epidemiology** is the “basic science of public health,” and as such epidemiologists are health professionals who study disease, illness, and injuries and attempt to determine: who becomes ill; why certain people are more likely to become ill; and how to prevent the spread of illness. See Department of Biostatistics and Epidemiology.

**Public Health Administration** is a multidisciplinary field that focuses on the accessibility, financing, and organization of health care services and the development and implementation of public health policy. See Department of Health Services Administration.

**Program Admission Requirements**  
(Application deadline: March 1)

Admission to the graduate program in public health is based upon scholarship, letters of recommendation, and evidence of potential mastery including:

1. A minimum undergraduate grade point average (GPA) of 2.75;
2. Satisfactory scores on the Graduate Record Examination (GRE);
3. A minimum of two (2) years of public health work experience is preferred though not required. Students without experience are required to complete PUBH 5850.
4. See Environmental Health department listing for additional admission requirements for that concentration.

For additional information, please contact the office of the graduate coordinator or the respective graduate program housing your concentration of interest. You may also view the graduate catalog online at the Graduate Studies web site, www.etsu.edu/gradstud.

Applications for study in the M.P.H. program should be sent to the School of Graduate Studies. These may be obtained online at the Graduate Studies web site shown above.

Note: Applications are accepted once a year only, for entry into the fall semester. Completed applications must be received in the School of Graduate Studies by March 1 for consideration.

**Biostatistics and Epidemiology**

**Master of Public Health (MPH)**

James L. Anderson, M.D., M.P.H., Ph.D., Interim Chair, Department of Biostatistics and Epidemiology  
College of Public Health  
149 Lamb Hall  
Box 70259  
(423) 439-4449  
e-mail: andersjl@etsu.edu

**Master of Public Health (MPH)**

Brian C. Martin, Ph.D., M.B.A., M.P.H. Coordinator  
College of Public Health  
42 Lamb Hall  
Box 70264  
(423) 439-4429  
e-mail: martinb@etsu.edu

**Master of Public Health Degree**

The Master of Public Health (MPH) is a professional degree that offers competency-based preparation for public health practice in five different concentration areas – Biostatistics, Community Health, Environmental Health, Epidemiology, and Health Services Administration. Each concentration provides students with the required knowledge and skills to work in the respective area.

The Department of Biostatistics and Epidemiology offers the MPH concentrations for biostatistics and epidemiology. For the other concentrations, please see the appropriate department.

Many courses are available in an online format through distance education technology. The MPH concentration in Epidemiology can be obtained in a fully online format.

**Biostatistics** is a quantitative field in which students learn how to collect, manage, and analyze public health data. Students taking this concentration will learn basic analytical methods and the use of statistical software. Those with knowledge and skills in biostatistics are important in helping to analyze data so that public health prevention and control methods can be used to prevent disease and promote health. Students taking this concentration should have a strong aptitude and skills in mathematics.

**Epidemiology** is sometimes referred to as the “basic science of public health”. Epidemiologists are health professionals who study health, illness, and injuries in human populations for the purpose of identifying risk factors and causes. Epidemiologists use the knowledge gained to guide disease prevention and control activities. Students taking the epidemiology
concentration should have strong skills in mathematics and be analytic and organized in their approach to problem solving.

**Degree Requirements**

### Core MPH Course Requirements*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUBH 5020</td>
<td>Philosophy of Public Health</td>
<td>1</td>
</tr>
<tr>
<td>ENVH 5100</td>
<td>Environmental Health Practice I</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5200</td>
<td>Social &amp; Behavioral Foundations of Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5310</td>
<td>Biostatistics I</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5400</td>
<td>Epidemiology I</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5500</td>
<td>Health Services Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total MPH Core Hours Requirements** ........................................... 16

### Electives – Select 3 courses from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUBH 5410</td>
<td>Statistical Software for Health Professionals</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5405</td>
<td>Epidemiology II</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5330</td>
<td>Statistical Methods in Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5465</td>
<td>Spatial Epid. &amp; Geographical Studies of Health</td>
<td>3</td>
</tr>
<tr>
<td>MATH 5287</td>
<td>Applications of Statistics</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5460</td>
<td>Environmental/Occupational Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5900</td>
<td>Grant and Proposal Development</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Elective Hours** ........................................................... 9

**Total Hours Required Biostatistics Concentration** .................... 12

### Epidemiology Concentration

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUBH 5350</td>
<td>Biostatistics II</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5405</td>
<td>Epidemiology II</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5420</td>
<td>Epidemiology of Chronic Disease</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5430</td>
<td>Epidemiology of Infectious Disease</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5850</td>
<td>Public Health Program Field Experience</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours Required Epidemiology Concentration** .................... 43

* See MPH Student Handbook for details on progression in the program including requirement for graduation.

** Students selecting a thesis in health services administration, biostatistics, or epidemiology concentrations must also enroll in PUBH 5950 - Research Seminar.

*** Unless otherwise stated, electives must be selected in consultation with the student's academic advisor and may be taken in any area appropriate to the student's professional goals.

### Community Health Concentration

#### Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUBH 5120</td>
<td>Health Program Planning and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5205</td>
<td>Rural Health Research and Practice</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5580</td>
<td>Public Health Field Experience</td>
<td>3</td>
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**Total Core Hour Requirements** ........................................... 16

### Community Health Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ENVH 5890</td>
<td>Environmental Health Administration</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 5910</td>
<td>Seminar</td>
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</tr>
<tr>
<td>ENVH 5850</td>
<td>Public Health Field Experience</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5200</td>
<td>Social &amp; Behavioral Foundations of Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5310</td>
<td>Biostatistics I</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5500</td>
<td>Health Services Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Elective Hours** ........................................................... 6

**Total MPH Core Hour Requirements** ........................................... 16

### Environmental Health Sciences Concentration

**Core Course Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUBH 5020</td>
<td>Philosophy of Public Health</td>
<td>1</td>
</tr>
<tr>
<td>ENVH 5100</td>
<td>Environmental Health Practice I</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5200</td>
<td>Social &amp; Behavioral Foundations of Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5310</td>
<td>Biostatistics I</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5400</td>
<td>Epidemiology I</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5500</td>
<td>Health Services Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Core Hour Requirements** ........................................... 16

### Environmental Health Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVH 5357</td>
<td>Toxicology</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 5640</td>
<td>Environmental Risk Assessment</td>
<td>4</td>
</tr>
<tr>
<td>ENVH 5860</td>
<td>Environmental Health Administration</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 5870</td>
<td>Public Health Law</td>
<td>3</td>
</tr>
<tr>
<td>ENVH 5890</td>
<td>Environmental Planning</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5910</td>
<td>Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Hours Required** ........................................................... 4
### Environmental Health Concentration

* See MPH Student Handbook for details on progression in the program including requirements for graduation.

** Students selecting to complete a thesis in health services administration, biostatistics, or epidemiology concentrations must also enroll in PUBH 5950 Research Seminar.

*** Unless otherwise stated, electives must be selected in consultation with the student’s academic advisor and may be taken in any area appropriate to the student’s professional goals.

---

### Health Services Administration

**Master of Public Health in Public Health Administration**

Amal J Khoury, Ph.D., MPH, Assistant Professor and Interim Chair  
College of Public Health  
42 Lamb Hall  
Box 70264  
(423) 439-4937  
e-mail: khoury@etsu.edu

Brian C. Martin, Ph.D., MBA, MPH Coordinator  
College of Public Health  
42 Lamb Hall  
Box 70264  
(423) 439-4429  
e-mail: martinbc@etsu.edu

**Faculty:**  
Timothy Baylor; Wilbie Bishop; Amal J Khoury; Brian C. Martin; Chul-Young Roh; Randy Wykoff

**MPH in Public Health Administration**

**Purpose**

The Master of Public Health in Public Health Administration is a professional degree preparing graduates for leadership positions in health services management and policy analysis. The MPH also prepares students for doctoral training in public health. The MPH is accredited by the Council on Education for Public Health.

**Competencies**

By the end of the degree program, students are expected to have achieved the following competencies:

- Discuss main issues of the organization, financing and delivery of health services in the United States.
- Apply legal and ethical principles to issues of health services management and policy analysis.
- Analyze health policy, including policy formulation, implementation, and evaluation.
- Apply principles of strategic planning and marketing in health services organizations.
- Apply quality and performance improvement concepts to address organizational performance.
- Demonstrate written and oral skills for communicating health policy and management issues with different audiences.
- Demonstrate leadership skills for building relations and alliances.
- Apply principles of human resources management in public health and health services organizations.
- Apply principles of accounting and financial management in public health and health services organizations.
- Analyze governance and management structures of health services organizations.

**MPH Degree Requirements**

**Core Course Requirements**

- PUBH 5020 Philosophy of Public Health .......................... 1
- PUBH 5200 Social and Behavioral Foundations of Public Health .......................... 3
- PUBH 5310 Biostatistics I .............................................. 3
- PUBH 5400 Epidemiology I ........................................... 3
- PUBH 5500 Health Services Administration ........................ 3

**Total Core Hour Requirements** ........................................... 16

**Public Health Administration Concentration**

**Required Courses**

- PUBH 5505 Managing Health Care Organizations ............... 3
- PUBH 5525 Health Services Organization & Delivery .......... 3
- PUBH 5535 Health Policy, Politics, and Analysis ............... 3
- PUBH 5550 Human Resource Mgmt. in Health Org. .......... 3

---

### Biostatistics Graduate Certificate

James L. Anderson, M.D., M.P.H., Ph.D., Interim Chair,  
Department of Biostatistics and Epidemiology  
College of Public Health  
42 Lamb Hall  
Box 70259  
(423) 439-4477/4449  
e-mail: andersjl@etsu.edu

This graduate certificate in biostatistics is designed to meet the needs of public health practitioners who desire additional training in biostatistics. It provides training in quantitative skills used in health departments, managed care organizations, community-based organizations, international health agencies, and state and federal agencies.

Upon completion of this program, students will be able to:

- Use statistical techniques in the design of observational and experimental studies found in public health research and practice;
- Develop the knowledge, skills, and abilities in the use of statistical techniques and common statistical software packages for the analysis of health data;
- Apply probability distributions to public health outcomes; and
- Effectively communicate statistical methods, results, and conclusions with other public health professionals and the community at large.

**Admission to the Program**

The criteria for admission to the Biostatistics Graduate Certificate Program include:

1. A bachelor’s degree from a regionally accredited institution.
2. A minimum undergraduate grade point average of 2.5 on a 4.0 scale.
3. Application materials which must be submitted to the School of Graduate Studies include:
   - an application;
   - three (3) letters of recommendation; and
   - official transcripts from all colleges attended.

All applications will be evaluated by an admission committee. Letters of recommendation are waived for applicants of the Tennessee Workforce Development Consortium.

**Course Requirements**

**Major Field Core**

- PUBH 5030 Overview of Public Health ................................ 3
- PUBH 5310 Biostatistics I .............................................. 3
- PUBH 5400 Epidemiology I ........................................... 3

**Total Major Field Core Hours** ........................................... 9

**Concentration**

- PUBH 5350 Biostatistics II ............................................ 3
- PUBH 5410 Statistical Software for Health Professionals .... 3

**Total Concentration Hours** ............................................. 6

**Total Required Coursework Hours** .................................. 15

The Biostatistics graduate certificate is awarded to students who have been officially admitted to the program and have successfully completed 15 credit hours of approved coursework. A student may use a course from the following list to replace a required course previously taken at another institution, or completed in fulfillment of another degree at ETSU.

- PUBH 5405 Epidemiology II ........................................... 3
- MATH 5287 Applications of Statistics ................................. 3
- PUBH 5460 Environmental/Occupational Epidemiology ........ 3
- PUBH 5900 Grant and Proposal Development .................... 3

---

### Epidemiology Graduate Certificate

James L. Anderson, M.D., M.P.H., Ph.D., Interim Chair,  
Department of Biostatistics and Epidemiology  
College of Public Health  
42 Lamb Hall  
Box 70259

---
East Tennessee State University

(423) 439-4477
e-mail: andersjl@etsu.edu

The Epidemiology Graduate Certificate Program is a 15-credit-hour program designed to provide the learner with a basic understanding of the concepts of epidemiology used in public health practice. Epidemiology is the study of the distribution and determinants of disease, illness, and injury.

Admission to the Program

The criteria for admission to the Epidemiology Graduate Certificate Program include:

1. A bachelor's degree from a regionally accredited institution.
2. A minimum undergraduate grade point average of 2.5 on a 4.0 scale.

All applications will be evaluated by an admission committee. Letters of recommendation are waived for applicants of the Tennessee Public Health Workforce Development Consortium.

Core Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUBH 5030</td>
<td>Overview of Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5310</td>
<td>Biostatistics I</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5400</td>
<td>Epidemiology I</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Core Hours: 9

Concentration Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUBH 5405</td>
<td>Epidemiology II</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5410</td>
<td>Statistical Software for Health Professionals</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Concentration Hours: 6

Total Required Coursework Hours: 15

A student may use a course from the following list to replace a required course previously taken at another institution or completed in fulfillment of another degree at ETSU.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUBH 5110</td>
<td>Community Health Assessment Research</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5120</td>
<td>Health Program Planning and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5130</td>
<td>Consulting and Implementation of Health Programs and Services</td>
<td>3</td>
</tr>
<tr>
<td>MATH 5287</td>
<td>Applications of Statistics</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5330</td>
<td>Statistical Methods in Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5460</td>
<td>Environmental/Occupational Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5600</td>
<td>Industrial Health Education</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5620</td>
<td>Hazards in the Workplace</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5900</td>
<td>Grant and Proposal Development</td>
<td>3</td>
</tr>
</tbody>
</table>

Gerontology Graduate Certificate (Interdisciplinary)

James Florence, DrPH, CHES, Associate Professor, Interim Chair
College of Public Health
318 Lamb Hall
Box 70624
(423) 439-6720
e-mail: florence@etsu.edu

The Gerontology Graduate Certificate Program is an interdisciplinary 16-credit-hour program of study designed to provide the learner with specific leadership and management tools for the health care environment. The focus of the program is to educate students who will be leaders in improving the quality of life for older individuals and their families in Tennessee, the nation, and the world.

Admission to the Program

The criteria for admission to the Gerontology Graduate Certificate Program include:

1. A bachelor's degree from a regionally accredited institution.
2. A minimum undergraduate grade point average of 2.5 on a 4.0 scale.

All applications will be evaluated by an admission committee composed of representatives from the Gerontology Steering Committee.

Course Requirements

The Gerontology Graduate Certificate will only be awarded to students who have been officially admitted to the program and successfully completed the sixteen (16) credit-hours of approved coursework. A student may transfer up to nine (9) credit-hours of approved coursework into the program. In the final semester, a student must complete a culminating experience as part of the Advanced Interdisciplinary Seminar in Gerontology. The time limit for use of credit toward the certificate is six (6) years from the date of enrollment in the earliest course applied toward the certificate, including transferred courses. In order to receive the certificate, a student must earn a cumulative grade point average of 3.0 or above on coursework.

A student may simultaneously pursue both the certificate and a graduate degree program if duly admitted to both programs. However, being admitted to a degree program and successfully completing coursework typically required for the graduate certificate does not automatically qualify a student for the certificate.

For more information and application materials, write or call:
East Tennessee State University
College of Public Health
Gerontology Graduate Certificate Program
P.O. Box 70573
Johnson City, TN 37614
Phone: (423) 439-6720
or
East Tennessee State University
School of Graduate Studies
P.O. Box 70720
Johnson City, TN 37614
Phone: (423) 439-4477

Program of Study

Each student, with the assistance of an assigned advisor, will design a program of study to include ten (10) hours of core requirements and a minimum of six (6) hours of guided electives to be selected from listed courses. Note: Some clinical/discipline specific courses will have prerequisites that must be met.

Core Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUBH 5535</td>
<td>Health Policy, Politics, and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5607</td>
<td>Gerontology and Health</td>
<td>3</td>
</tr>
<tr>
<td>IDGE 5500</td>
<td>Adv. Seminar in Gerontology</td>
<td>4</td>
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</table>

Guided Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>NRSE 5013</td>
<td>Lifespan Assessment and Clinical Mgmt.</td>
<td>2</td>
</tr>
<tr>
<td>NRSE 5021</td>
<td>Case Management</td>
<td>2</td>
</tr>
<tr>
<td>CDIS 6310</td>
<td>Rehabilitative Audiology for Adults</td>
<td>3</td>
</tr>
<tr>
<td>NTFD 5427</td>
<td>Diet in Disease I</td>
<td>3</td>
</tr>
<tr>
<td>PEXS 5977</td>
<td>Exercise Management for Persons with Chronic Diseases</td>
<td>3</td>
</tr>
<tr>
<td>PHYT 5433</td>
<td>Neurotherapeutics III - Geriatrics</td>
<td>2</td>
</tr>
<tr>
<td>PUBH 5357</td>
<td>Thanatology</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5110</td>
<td>Assessment of Individual and Community Health</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5510</td>
<td>Long-Term Care Administration</td>
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<tr>
<td>SOCI 5507</td>
<td>Sociology of the Aging</td>
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</tr>
<tr>
<td>SOAA 5620</td>
<td>Sociology of Age and the Life Course</td>
<td>3</td>
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</tbody>
</table>

Other electives as approved by the graduate faculty advisor.

Health Care Management Graduate Certificate (Interdisciplinary)

The Health Care Management Graduate Certificate Program is an interdisciplinary 18-credit-hour program of study designed to provide the learner with leadership and strategic management tools specifically for the health care environment. The focus of the program is to assist students to envision a broadened career perspective on the changing scope of health care delivery and management. Faculty from the Colleges of Business and Technology, Nursing, and Public Health design and teach the courses within the program.

Admission to the Program

The criteria for admission to the Health Care Management Graduate Certificate Program includes:
1. A baccalaureate degree; and
2. A minimum grade point average (GPA) of 2.5 on a 4.0 scale.

Application materials which must be submitted to the School of Graduate Studies include an application, essay, official transcripts from all colleges attended, three (3) professional references, and a résumé. If a student is seeking simultaneous admission to a degree program in the colleges of Business and Technology, Nursing, or Public Health, and the Health Care Management Certificate Program, the student must submit two (2) applications, a dual degree form, one set of the required credentials (transcripts, test scores, references, etc.) and pay one application fee. If a student is currently admitted to one of the above degree programs in administration and later wishes to be considered for admission to the Health Care Management Certificate Program, the student must only submit a completed application form indicating an interest in the certificate program and a dual degree form.

All applications will be evaluated by the Program Coordinator. Factors given consideration in the admission decision include the following: grade point average, professional work experience, writing ability, demonstrated interest in health care management, and references. Applicants are encouraged to address their related accomplishments and goals in the essay and résumé.

First preference for admission will be given to candidates who meet all criteria and file a completed application no later than sixty (60) days prior to the beginning of the semester in which the student plans to begin the program. Applications will be considered until the class is filled.

Course Requirements

A minimum of eighteen (18) credit-hours is required for the Health Care Management Graduate Certificate. Upon admission to the program, an individualized program of study is designed based upon evaluation of previous coursework and professional experience. A student may transfer up to nine (9) credit-hours of approved coursework into the certificate program. Coursework previously counted toward an earned degree or an earned coursework and professional experience. A student may transfer up to nine (9) credit-hours of approved coursework into the certificate program. Coursework previously counted toward an earned degree or an earned certificate may not be transferred into the Health Care Management Graduate Certificate Program. Upon successful completion of the program of study, students will receive a certificate of completion in Health Care Management. A student may simultaneously enroll in the Health Care Management Graduate Certificate program and a specified degree program if he/she is duly admitted to both programs. Up to eighteen (18) credit-hours of coursework in the certificate program may be approved for transfer into the M.P.H., M.B.A., or M.S.N. degree programs.

For information and application materials, contact:
East Tennessee State University
Health Care Management
Graduate Certificate Program
Box 70264
Johnson City, TN 37614
Attn.: Dr. Brian C. Martin
Phone: (423) 439-4429 Fax: (423) 439-6710
e-mail: martinb@etsu.edu

Program of Study

Each student will design a program of study to include five required three-credit-hour courses and one 3-credit-hour elective from the approved list of electives.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT/NRSE/PUBH 5505</td>
<td>Health Care Accounting and Finance</td>
<td>3</td>
</tr>
<tr>
<td>PUBH/MGMT/NRSE 5525</td>
<td>Health Services</td>
<td>3</td>
</tr>
<tr>
<td>PUBH/MGMT/NRSE 5530</td>
<td>Delivery and Organizations</td>
<td>3</td>
</tr>
<tr>
<td>PUBH/MGMT/NRSE 5550</td>
<td>Health Care Organizations and Law</td>
<td>3</td>
</tr>
<tr>
<td>PUBH/MGMT/NRSE 5590</td>
<td>Human Resources Mgmt in Health Organizations</td>
<td>3</td>
</tr>
<tr>
<td>MGMT/NRSE/PUBH 5541</td>
<td>Strategic Planning for Health Care</td>
<td>3</td>
</tr>
</tbody>
</table>

Other electives as approved by the faculty advisor.

Rural Health Graduate Certificate

James E. Florence, Dr.P.H., M.P.H., C.H.E.S., Associate Professor and Interim Chair, Department of Community Health
College of Public Health
318 Lamb Hall
Box 70674
(423) 439-4332
e-mail: florence@etsu.edu
or
Mary Ann Littleton, Ph.D., Associate Professor
311 Lamb Hall
(423) 439-5247
e-mail: littletol@etsu.edu

The Rural Health Graduate Certificate Program is a 15-credit-hour program designed to provide students with knowledge and skills needed to assess, plan, implement, and evaluate rural health programs and services.

Admission to the Program

The criteria for admission to the Rural Health Graduate Certificate Program include:
1. A bachelor's degree from a regionally accredited institution.
2. A minimum undergraduate grade point average of 2.5 on a 4.0 scale.
3. Official transcripts from all colleges attended.

All applications will be evaluated by an admission committee.

Core Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUBH 5400</td>
<td>Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5535</td>
<td>Health Policy, Politics, and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 5505</td>
<td>Managing Health Care Organizations</td>
<td>3</td>
</tr>
<tr>
<td>NRSE 5017</td>
<td>Health Care Informatics</td>
<td>3</td>
</tr>
<tr>
<td>NRSE 5557</td>
<td>Alternative Therapies</td>
<td>3</td>
</tr>
<tr>
<td>ECON 5317</td>
<td>Health Care Economics</td>
<td>3</td>
</tr>
</tbody>
</table>

Other electives as approved by the faculty advisor.

Reading

Master of Arts in Reading

Graduate School Contact:
Robin O'Dell; odell@etsu.edu; 423-439-6148
E. Jane Melendez, Ph.D., Graduate Coordinator, Reading Education Concentration
406 Wurf-Pickel Hall
Box 70684
(423) 439-7910
e-mail: melendez@etsu.edu
If Coordinator is unavailable, contact Dr. Rhona Hurwitz, Department Chair.

Joseph Sobol, Ph.D., Graduate Coordinator, Storytelling Concentration
205D Wurf-Pickel Hall
Box 70684
(423) 439-7683
e-mail: sobol@etsu.edu
Rhona Hurwitz, Ed.D., Chair
401A Wurf-Pickel Hall

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The graduate program in reading education is designed to provide the necessary educational experiences for persons who are either preparing to or are already involved in working toward enhancing the reading, writing, and oral language competencies of children and adults. Candidates are prepared to assume leadership roles in reading education by serving as special reading teachers, clinicians, diagnosticians, program coordinators, reading specialists, and reading supervisors.

The graduate program meets standards of excellence for reading programs of the International Reading Association. Graduate program faculty and candidates work extensively in area schools to provide active practicum experiences.

The M.A. in Reading Education is not an initial licensure program. Persons seeking an initial endorsement to teach in Tennessee should enter one of the initial licensure programs.

Admission—Each applicant for admission to a master's degree program must have earned a bachelor's degree in an appropriate academic discipline from a regionally accredited college or university before the application will be considered. Each applicant for admission must meet all general university requirements for admission to the School of Graduate Studies and departmental criteria as published elsewhere.

Degree Requirements—Graduate majors in reading education will be permitted to elect the thesis option (comprised of coursework and required formal thesis) with a minimum requirement of 30 credit-hours, or the course option (completely comprised of coursework, no formal thesis required) with a minimum requirement of 36 credit-hours. All reading education majors will be required to complete READ 5027, 5120, 5170, 5190, 5210, 5231, 5241, and EDFN 5950. Additional credits will be earned from other reading and reading-related courses.

Course Requirements

Core Courses
- EDFN 5950 Methods of Research ........................................... 3
- READ 5190 Linguistics of Reading ........................................ 3
- READ 5241 Practicum ............................................................. 3
  Total Core Hours .................................................................. 9

Concentration Courses
- READ 5027 Diagnostic and Remedial Procedures .................... 3
- READ 5120 Teaching Reading .................................................. 3
- READ 5170 Materials for Reading and Language Arts ............. 3
- READ 5210 Psychology of Reading ......................................... 3
- READ 5231 Advanced Diagnostic Procedures ....................... 3
  Total Concentration Hours ................................................. 15

Thesis Option
- READ 5960 Thesis ............................................................... 3-6
- Guided Elective ................................................................. 0-3
  Total Hours Required (Thesis Option) .................................... 30

Non-Thesis Option
- Guided Electives .................................................................. 12
  Total Hours Required (Non-Thesis Option) ........................... 36

Tennessee Reading Specialist PreK - 12—The East Tennessee State University Clemmer College of Education Master of Arts in Reading Education enables individuals to acquire the knowledge and skills stipulated by the Tennessee Licensure Standards for Reading Specialist, PreK-12. Most students who participate in our Reading M.A. program are practicing licensed teachers, and those aspiring to specialist licensure must have at least three (3) years successful classroom experience as such. Graduate students, working toward qualification as licensed reading specialists in Tennessee, will be advised to take a specific set of courses that fulfills both the East Tennessee State University requirements for the Reading M.A. degree and the requirements outlined by the Tennessee Standards for Licensure as Reading Specialist, PreK-12.

Storytelling Concentration

Joseph Sobol, Ph.D., Graduate Coordinator
205D Warf-Pickel Hall
Box 70684
(423) 439-7863
e-mail: sobol@etsu.edu

The purpose of the graduate program in Storytelling is to provide necessary educational experiences for those who are preparing themselves to use Storytelling as a part of their endeavors. Teachers and librarians from the field of education and a widely varied group from outside education that could include, but not be limited to, professional storytellers, ministers, physicians, attorneys, and any who wish to use storytelling as a major part of their vocations or avocations would be included. Elements of the program are offered through activities of the National Storytelling Network (NSN) and the International Storytelling Center (ISC).

Admission Requirements—Requirements are the same as for the reading education concentration.

Degree Requirements—Graduate majors in Storytelling may choose the thesis option with a minimum of 30 credit-hours, or the course work option with a minimum of 36 credit-hours. All storytelling majors shall be required to complete STOR 5147, 5190, 5890, 5900, 5230, 5241, and EDFN 5950 (or approved substitution). Additional credits should be earned from the list of approved electives or other courses approved by the student's advisor.

Course Requirements

Core Courses
- EDFN 5950 Methods of Research ........................................... 3
- READ 5190 Linguistics of Reading/Storytelling ...................... 3
- READ 5241 Practicum ............................................................. 3
  Total Core Hours .................................................................. 9

Concentration Coursework
- STOR 5147 Basic Storytelling ................................................. 3
- STOR 5890 Historical and Psychological Foundations of Storytelling ......................................................... 3
- STOR 5230 Advanced Storytelling ......................................... 3
  Total Concentration Hours ................................................. 9

Thesis Option
- STOR 5960 Thesis ............................................................... 3-6
- Guided Electives .................................................................. 6-9
  Total Hours Required (Thesis) .............................................. 30

Non-Thesis Option
- STOR 5961 Non-Thesis Capstone Project ............................... 3
- Guided Electives .................................................................. 15
  Total Hours Required (Non-Thesis) .................................... 36

Master of Arts degree requirements to establish writing competencies of students are:
1. The production of a research prospectus including review of literature through EDFN 5950;
2. The production of a story performance (to be recorded on videotape for departmental files); and
3. The successful completion of oral comprehensive examinations.

Secondary Education
Master of Education in Secondary Education

Graduate School Contact:
Robin O’Dell; odell@etsu.edu; 423-439-6148

Norma Macrae, Ed.D., Graduate Coordinator
902 West Maple Street
Box 70684
(423) 439-8772
e-mail: macraen@etsu.edu

Rhona Hurwitz, Chair, Curriculum and Instruction
401A Warf-Pickel
Box 70684
(423) 439-7598
e-mail: hurwitz@etsu.edu

Faculty:
H. Lee Daniels; Rosalind Gamb; Aimee Govev; Rhona Hurwitz; Lori Meier; Elizabeth Jane Melendez; Elizabeth Ralston; Jack Rhoton; Chi-Che Tai.

The major purpose of this degree is to improve the quality of teaching at the secondary level by broadening the background of teachers in the various areas of study and preparing teachers as action researchers. The departments in which courses are normally taken are: Biology, Chemistry, Computer Science, English, Foreign Languages, Geography, Health Education, History, Mathematics, Psychology, Sociology, and Theatre.

Students who wish to complete a concentration in one of the disciplines normally taught at the secondary school level, as part of a Master of Education degree, must already hold a professional teaching certificate. If the applicant does not have an acceptable background but desires to complete a major, these deficiencies may be removed by completing courses for undergraduate credit.

Students planning to complete this program must complete 22 credits of professional development courses and 15 credits in an appropriate discipline, representing the student's greatest interest. The Master of Education in Secondary Education degree requires a minimum of 37 credit-hours to complete. Professional development courses may be completed concurrently with content area courses. Elective courses and content area courses taken prior to completing the professional development courses should be held to a minimum. After completing twelve (12) credit-hours of professional development courses, the student should complete candidacy and committee papers with the approval of the initial advisor. The student's program should be planned with the advisor prior to selecting courses. The students completing the M.Ed. Secondary Education program are required to present a Professional Level Teaching Portfolio as part of the oral examination.

Program Admission Requirements

Students seeking admission to graduate programs in the Department of Curriculum and Instruction must first meet general requirements of the Graduate School. In addition, the following specific admission criteria apply:

1. A candidate who has an undergraduate GPA of 3.0 or above on a 4.0 scale for all work completed is eligible for admission. The candidate must also submit three letters of recommendation.
2. A candidate who has an undergraduate GPA of less than 3.0 on a 4.0 scale may be granted admission by either of the following two procedures:
   a. Obtain a minimum of 2,400 points based on the following formula:
      i. The sum of the GRE aptitude scores (V+Q+A);
      ii. GPA x 500; and
      iii. The total of (i) and (ii).
   b. Participating in an interview with the appropriate admission committee. The candidate will be responsible for providing the admission committee with information for consideration in admission decisions. Factors to be considered include teaching experience; scores on standardized tests; GPA during the entire undergraduate experience; during the last two years of undergraduate school, and in the major; performance in graduate courses taken; recommendations of supervisors and colleagues; quality of undergraduate school(s) attended; oral communication skills; and skill in writing, which will be determined in part by the candidate's extemporaneous writing during the interview process.

Course Requirements

(Except Classroom Technology Concentration)

I. Professional Development Courses
   EDFN 5010 Interdisciplinary Seminar ....................... 1
   EDFN 5050 Social and Political Influences on Schools .......... 3
   EDFN 5950 Methods of Research ................................... 3
   CUAI 5199 Teaching in a Diverse Society ................. 3
   CUAI 5200 Middle School/ Junior High Curriculum or     
   CUAI 5220 Secondary School Curriculum .................... 3
   MEDA 5400 Integrating Technology in Teaching & Learning . 3
   Three (3) additional semester credits from courses listed below:
   CUAI 5210 Curriculum Development ............................ 3
   MEDA 5700 Instructional Role of Educational ................ 3
   Media and Educational Technology
   CUAI 5910 Assessment Techniques in the Classroom .......... 3
   EDFN 5000 History and Philosophy of Education ............ 3
   MEDA 5540 Principles of Instructional Design & Production . 3
   Total Hours Professional Development .................. 19

II. Content Specialization
  15 credits from areas normally taught in the secondary schools
   (grades 7-12)
   Total Hours Specialization ................................. 15

III. Content Elective
  Chosen with prior approval from the student’s advisory chair may be from content area.
  Total Hours Electives ........................................... 3
  Total Hours Required for Degree .......................... 37

Classroom Technology Concentration

The classroom technology concentration provides secondary teachers with the skills necessary to implement, with a greater degree of efficiency, the effective use of technology in the classroom. The classroom technology concentration prepares candidates to keep abreast of changes in educational technology and its impact on education. In addition, candidates will be equipped to utilize and integrate a broad range of educational technology applications to enhance student learning.

Students planning to complete the classroom technology concentration must complete nineteen (19) credit-hours of professional development courses (see below); Twelve (12) credit-hours in educational technology courses; and six (6) credit-hours of electives. The six (6) credit-hours from electives may be completed from educational technology courses or in one of the disciplines normally taught at the secondary level.

I. Professional Development Courses
   EDFN 5010 Interdisciplinary Seminar ....................... 1
   EDFN 5050 Social and Political Influences on Schools .......... 3
   EDFN 5950 Methods of Research ................................... 3
   CUAI 5199 Teaching in a Diverse Society ................. 3
   CUAI 5200 Middle School/ Junior High Curriculum or     
   CUAI 5220 Secondary School Curriculum .................... 3
   MEDA 5400 Integrating technology in Teaching & Learning . 3
   Three (3) additional semester credits from courses listed below:
   MEDA 5700 Instructional Role of Educational ................ 3
   Media and Educational Technology
   MEDA 5540 Principles of Instructional Design ............... 3
   and Production
   Total Hours Professional Development .................. 19

II. Content Specialization
   MEDA 5850 Organizing & Managing Content on the Internet 3
   MEDA 5957 Topics in Media ....................................... 3
   Six (6) additional hours of educational technology .......... 6
   Total Hours Specialization ................................. 12

III. Content Elective
  Content electives may be selected from media technology or from the disciplines normally taught at the secondary level.
  Total Hours Electives ........................................... 6
  Total Hours Required for Degree .......................... 37

The courses listed under the content specialization have been recommended by the respective departments as appropriate courses for secondary education. See the appropriate content section of this catalog or contact your advisor for specifics. However, substitutions may be recommended based on the unique background of individual candidates. Students may work out a specific program of study in consultation with an advisor. However, students should be aware that many courses in the content specialization and professional core have prerequisites.

See Curriculum and Instruction (CUAI), Educational Foundations (EDFN), and media (MEDA) sections of this catalog for these course descriptions.

Social Work

Master of Social Work
East Tennessee State University

Graduate School Contact:
Cindy Hill; hillce@etsu.edu; 423-439-6590

Barbara Grissett, Ph.D., Program Director
103 Lyle House
Box 70674
(423) 439-6015
e-mail: grissett@etsu.edu

Paul Baggett, Ph.D., Department Chair
207 Lyle House
Box 70674
(423) 439-6011
e-mail: baggett@etsu.edu

Departmental web site can be found at: http://etsu.edu/socialwork/

Faculty:
Lynda Anastasia; Paul Baggett; Jane Maas-Brady; J.P. Burnham; Mary Ellen Cox; Bruce Dalton; Helene Halvorson; Robin Lennon-Dearing; Kim Denton; Patty Wahlberg.

Program Purpose
The purpose of the ETSU MSW program is to prepare students for autonomous clinical practice. The goals, objectives, and course content were developed with this purpose in mind. The MSW program learning goals include the following:
1. To prepare students with the knowledge, values, and skills of clinical practice within public and private agencies;
2. To prepare students to engage in competent and responsible clinical practice within public and private agencies;
3. To prepare students to develop and use ethical research in the advancement and enhancement of social work practice.

The Master of Social Work program is a fully accredited program by the Council on Social Work Education (CSWE).

Applicants with bachelor's degrees from accredited universities or colleges may apply for admission to the traditional, two (2)-year master's program. The first-year foundation curriculum focuses on preparing students with a generalist social work perspective. The second-year curriculum focuses on preparing students for autonomous clinical practice.

Applicants who have attained a bachelor of social work (B.S.W.), within the last five (5) years, from a program accredited by the CSWE may apply for advanced standing, which can be completed in approximately twelve (12) months (for full-time students).

Full-time and limited part-time enrollment is available.

Program Admission Requirements
1. Bachelor's degree from an accredited college or university;
2. A Grade Point Average (GPA) of 3.0 or higher on a 4.0 scale for the last 60 semester credit-hours or 90 quarter credit-hours, with an overall cumulative GPA of 2.75;
3. A liberal arts base consisting of course content in:
   a. English composition and literature;
   b. Math and Natural Sciences;
   c. Humanities;
   d. Social and/or Behavioral Sciences courses taken from a combination of Psychology, Sociology, Anthropology, Economics, History, Political Science, and Government;
4. Three (3) letters of reference that address the applicant's abilities and potential for graduate education and professional social work practice;
5. A résumé that includes personal data, educational experience, work/volunteer experience, special skills, attributes, and professional affiliations and recognition; and
6. An autobiographic statement.
7. The deadline for applications is March 1.
   (No academic credit will be granted for work experience.)

In addition to the above requirements, students graduating from a CSWE accredited Bachelor of Social Work program within the last five (5) years, may apply for Advanced Standing status.

Additional Requirements
Additionally, all applicants will be screened for evidence of the following intellectual and personal qualities compatible with social work roles and functions:
1. Sound interpersonal skills that would support respectful relationships and affirmation of people from diverse backgrounds.
2. Strong motivation for a career in social work and suitability for the profession.
3. Personal integrity that would demonstrate potential for meeting the objectives of the program and for adhering to the Code of Ethics established by the National Association of Social Workers.
4. Critical thinking skills and skills in oral and written communication consistent with graduate-level students.

Retention and Graduation Requirements

The Master of Social Work degree will be conferred upon those students who meet the following requirements:

Satisfactory completion of all retention and graduation requirements as outlined in the ETSU Graduate Catalog:
• Satisfactory completion of no less than 63 semester hours for those admitted to the Traditional Entry program and 37 credits hours for those admitted to the Advanced Standing program.
• Completion of all required courses with a cumulative GPA of 3.0 and at least a grade of “B” in all core courses and field coursework.

Satisfactory completion of the foundation coursework is required before advancing to second-year coursework and internship. Students may repeat a course for which the final grade is “B-” or lower only one time in order to complete graduation requirements. However, the second grade does not replace the first; all grades are computed into the GPA.

• Satisfactory completion of the program's culminating experience, with a grade of “B” or better, which is the integrating activity of the program and includes a comprehensive evaluation of the student's performance.
• Upon completion of the foundation, students will be evaluated for continuation in the program based upon coursework, fieldwork, and suitability for the profession.
• The MSW program must be completed in 4 years.

Traditional-Entry Program
First-Year Foundation Curriculum

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SOWK 5101 Multicultural Practice ..............................................</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 5102 Human Behavior in the Social Environment I ..........................</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 5103 Social Work Practice Foundations I ..................................</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 5104 Social Welfare Policy and Programs ..................................</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 5106 Field Practicum I .....................................................</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong> ....................................................................</td>
<td>16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SOWK 5201 Multicultural Practice ..............................................</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 5202 Human Behavior in the Social Environment II ..........................</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 5203 Social Work Practice Foundations II ..................................</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 5205 Social Work Research ...................................................</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 5430 Psychopathology ................................................................</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 5206 Field Practicum II .....................................................</td>
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<tr>
<td><strong>Total Semester Hours</strong> ....................................................................</td>
<td>16</td>
</tr>
<tr>
<td><strong>Total Hours (First-Year)</strong> ................................................................</td>
<td>32</td>
</tr>
</tbody>
</table>

Advanced Standing Only

Summer Coursework

SOWK 5208 Advanced Standing Bridge Course .............................................. | 3 |
| SOWK 5430 Psychopathology ................................................................ | 3 |

| **Total Hours (Summer Courses)** ................................................ | 6 |

Traditional-Entry and Advanced Standing
Second-Year Curriculum

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SOWK 5303 Advanced Practice/Individuals ............................................</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 5305 Social Work Research II ...................................................</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 5323 Advanced Practice/Groups ..................................................</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 5xxx Elective ............................................................................</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 5306 Advanced Field Practicum I ................................................</td>
<td>4</td>
</tr>
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<td><strong>Total Semester Hours</strong> ....................................................................</td>
<td>16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SOWK 5313 Advanced Practice/Families ................................................</td>
<td>3</td>
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<tr>
<td>SOWK 5403 Admin. Practice in Human Ser. Org. ....................................</td>
<td>3</td>
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<tr>
<td>SOWK 5405 Social Work Research III ..................................................</td>
<td>3</td>
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<tr>
<td>SOWK 5406 Advanced Field Practicum II ...............................................</td>
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<tr>
<td><strong>Total Semester Hours</strong> ....................................................................</td>
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<tr>
<td><strong>Total Hours (Second-Year)</strong> ................................................................</td>
<td>31</td>
</tr>
<tr>
<td><strong>Total Hours (Advanced Standing)</strong> ................................................</td>
<td>37</td>
</tr>
</tbody>
</table>

Enrollment in Social Work courses, other than electives, is restricted to students who have been admitted to the Master in Social Work (MSW) program.

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through the School of Graduate Studies. Requests for exceptions should be directed to the MSW Program Director in the Department of Social Work.

Sociology

Master of Arts in Sociology

Graduate School Contact:
Gail Powers; powers@etsu.edu; 423-439-4703

Leslie McCallister, Ph.D., Graduate Coordinator
223-C Rogers-Stout Hall
Box 70644
(423) 439-4998
e-mail: mcallis@etsu.edu

Martha Copp, Ph.D., Chair
223-H Rogers-Stout Hall
Box 70644
(423) 439-7056
e-mail: coppm@etsu.edu

Faculty:
Scott Beek; Anthony P. Cavender; Martha Copp; William Duncan; Jay Franklin; Paul Kamolnick; C. Lindsey King; Robert Leger; Leslie McCallister, Melissa Schrift.

The Department of Sociology and Anthropology offers two (2) Master of Arts degree options. The general sociology option is primarily for students intending to continue graduate training leading to the Ph.D.; the applied sociology option is oriented toward students interested in gaining competency in applied social research skills relevant to a variety of private and public sector settings. Graduates of the department have obtained jobs such as federal probation officers, director of residential treatment centers, research analyst, superintendent of a juvenile correction facility, as well as a variety of positions with departments of human services in Tennessee and neighboring states. Graduates have continued their studies in sociology by pursuing the Ph.D. at institutions such as Duke, Stanford, Kentucky, Indiana, Kansas, and Tennessee. For more information contact the department’s graduate coordinator.

Program Admission Requirements

1. Submit scores on the verbal, quantitative, and analytical sections of the Graduate Record Examination (GRE). Scores of at least 400 on each section (verbal and quantitative) and a score of 4 or higher on the analytical section preferred.
2. A 3.0 overall undergraduate grade point average on a 4.0 scale.
3. An undergraduate major or minor in sociology. In lieu of this requirement, students who majored and minored in related subjects (social work, psychology, criminal justice) and who complete at least three (3) courses in sociology may be admitted under the condition that they enroll in and complete, with at least a grade of “B”, two (2) upper-level undergraduate courses.
4. Three (3) letters of recommendation.

Thesis Option Requirements

All students selecting the thesis option must complete a minimum of 30 semester credits, 21 of which must be in sociology.

SOCI 5110 Contemporary Social Theory .......................... 3
SOCI 5210 Sociological Research .................................... 3
SOCI 5960 Thesis ...................................................... 3-6
Electives ....................................................................... 18-21

Total Hours—Thesis Option ........................................ 30

Students may take no more than nine (9) credits outside the department. Those students who are deemed to have had insufficient coursework in sociology at the undergraduate-level may be required to take between one (1) and three (3) “5xx7” courses before enrolling in the required courses. Students, in consultation with the graduate coordinator, shall select an advisory committee for their thesis. The formation of the thesis committee should be done by the end of the second semester of study. Working closely with the chair of their thesis committee, students are to prepare and present to the graduate faculty of the department a prospectus for their thesis, which must be approved before they can proceed with their thesis research. A written comprehensive examination is required to successfully complete the degree program.

Non-Thesis Option Requirements

All students selecting the non-thesis option must complete a minimum of 36 semester credits, 27 of which must be in sociology.

SOCI 5110 Contemporary Social Theory .......................... 3
SOCI 5210 Sociological Research .................................... 3
SOAA 5820 Skills in Applied Sociology and Anthropology .... 3
SOCI 5520 Program Evaluation ....................................... 3
SOCI 5850 Supervised Internship .................................... 6
SOCI 5870 Internship Placement Report ......................... 3

and one (1) of the following
SOCI 5627 Ethnographic Fieldwork Techniques or
SOCI 5444 Applied Data Analysis for Social Sciences ...... 3
Electives ....................................................................... 12

Total Hours—Non-Thesis Option ............................... 36

Any exceptions to these “core” courses must be approved by the graduate coordinator and the student’s advisory committee chair. As with the thesis option, those students deemed to have had insufficient coursework in sociology at the undergraduate-level may be required to enroll in one (1) to three (3) “5xx7” courses.

The special feature of the applied sociology concentration is a supervised internship. Students, in conjunction with the internship coordinator and their advisory committee, will select an appropriate placement in an agency or organization in which they will work, under supervision, for a total of 280 - 300 hours. Students will receive six (6) credits by enrolling in SOCI 5850-Supervised Internship. The culmination of the applied sociology concentration is an analytical report based on the student's internship experience and knowledge gained from previous coursework for which they receive three (3)-credits by taking SOCI 5870-Internship Placement Report. Students interested in the applied sociology concentration should indicate so in their first semester of study and a screening interview will be conducted by the second semester.

As with the thesis option, a written comprehensive examination is required to successfully complete the degree program.

Special Education

Master of Education in Special Education

Graduate School Contact:
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Cynthia Chambers, Ph.D., Program Coordinator
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e-mail: chamberc@etsu.edu

Patricia E. Robertson, Ed.D., Chair
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Box 70548
(423) 439-7693
e-mail: robertpe@etsu.edu

Faculty:
Wesley Brown, Cynthia Chambers; James Fox; Cynthia Hales; Lori Marks; Arnold Nyarunbi; Alma Watson.

The area of Special Education (SPED) offers a Master of Education (M.Ed.) degree for the advanced preparation of personnel to serve children, youth, and adults who have disabilities. The program offers three (3) concentrations.

Special Education Concentration

This area of emphasis is designed to prepare individuals to teach students with mild to severe disabilities, including autism, learning disabilities, physical disabilities, behavioral disorders, and moderate to severe mental retardation. Emphasis is placed on teaching students with a variety of needs within the context of the least restrictive environment, developing collaboration and
consultation skills, incorporating assistive technology and using curriculum-based assessment methods. The special education concentration prepares candidates for Tennessee teaching license in modified and comprehensive special education.

**Early Childhood Special Education Concentration**

This area of emphasis is designed to prepare individuals to teach young children (birth - 8 years) with disabilities and to work effectively with their families. This concentration prepares candidates for Tennessee licensure in early childhood special education.

**Advanced Practitioner Concentration**

This area of emphasis is designed to prepare individuals who are not seeking initial special education licensure, but who are interested in obtaining an advanced degree in special education. Coursework in this concentration is based upon the interests and needs of each student.

**Program Admission Requirements**

**Admission Standards**—Applicants who meet the following criteria may be admitted unconditionally. Those who do not meet the criteria may be admitted conditionally, with deficiencies to be met as stipulated by the program faculty.

1. Completion of all requirements for admission to the School of Graduate Studies.
2. Completion of the PRAXIS I with a passing score.
3. Minimum undergraduate GPA of 3.0 on a 4.0 scale.
4. Non-teaching personnel in a field ancillary to special education may pursue a SPED master's degree without the prerequisite teaching credentials.

**Initial Licensure in Special Education**

Those persons seeking initial licensure in special education who have a baccalaureate degree but are not currently eligible for teacher licensure will follow the program of study designed to meet the state of Tennessee's teacher licensure requirements for the special education concentration (SPED) or early childhood special education concentration (ECSE). Students admitted to the graduate program must successfully complete all applicable tests including the Praxis I and Praxis II. Deficiency coursework may be required, and may be taken at either the graduate or undergraduate level. Admission to the College of Education must be completed two semesters prior to student teaching. Students who have a Tennessee state teaching license and are entering may be taken at either the graduate or undergraduate level. Admission to the College of Education must be completed two semesters prior to student teaching. Students who have a Tennessee state teaching license and are entering the graduate program are admitted to the College of Education as part of their admission to the School of Graduate Studies. Deficiency coursework may not be applied toward requirements for completion of a master's degree. All students pursuing an initial licensure will seek for 15 weeks.

**Major Field Core Courses**

(Required for all master's degree students)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 5001</td>
<td>Critical Issues in Special Education</td>
<td>3</td>
</tr>
<tr>
<td>SPED 5545</td>
<td>Incorporating Assistive Technology</td>
<td>3</td>
</tr>
<tr>
<td>SPED 5487</td>
<td>Collaboration with Families, Agencies</td>
<td>3</td>
</tr>
<tr>
<td>EDFN 5950</td>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>EDFN 5010</td>
<td>Seminar in Education</td>
<td>1</td>
</tr>
</tbody>
</table>

In addition to graduate core courses, students must demonstrate successful completion of CPR and first-aid training.

**Special Education Concentration**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 5700</td>
<td>Instructional Techniques for the Inclusive Classroom</td>
<td>3</td>
</tr>
<tr>
<td>SPED 5750</td>
<td>Transition to Adult Life and the World of Work</td>
<td>3</td>
</tr>
<tr>
<td>SPED 5757</td>
<td>Curriculum-Based Assessment</td>
<td>3</td>
</tr>
<tr>
<td>SPED 5497</td>
<td>Curriculum in Special Education</td>
<td>3</td>
</tr>
<tr>
<td>SPED 5825</td>
<td>Curriculum in Preclinical Experience</td>
<td>3</td>
</tr>
<tr>
<td>SPED 5365</td>
<td>Integrating Functional Skills into the Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>SPED 5725</td>
<td>Management Strategies for Severe Behaviors</td>
<td>3</td>
</tr>
<tr>
<td>SPED 5410</td>
<td>Preclinical Experience: Behavior Mgmt</td>
<td>1</td>
</tr>
<tr>
<td>SPED 5850</td>
<td>Student Teaching in Special Education</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Hours for the M.Ed. (minimum)** 39 Credit Hours

---

**Advanced Practitioner Concentration**

This concentration is primarily designed for persons interested in in-depth studies leading to a master’s degree in special education. It does not prepare candidates for initial licensure in special education.

**Special Education Electives or Approved Coursework** 21

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 5560</td>
<td>Advanced Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours for the M.Ed. (minimum)** 37

**Additional Licensure Requirements**

Completion of the above program requirements provides training for additional licensure for individuals who are currently licensed in special education in Tennessee. Individuals in the special education concentration who do not already have a professional education license but desire to obtain the license must complete the courses in BOTH sections 1 & 2.

**Section 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 2300</td>
<td>Exceptional Learners</td>
<td></td>
</tr>
<tr>
<td>SPED 2200</td>
<td>History, Issues, and Trends in Educating Exceptional Learners</td>
<td></td>
</tr>
<tr>
<td>EDFN 2300</td>
<td>Foundations of Teaching</td>
<td>3</td>
</tr>
<tr>
<td>HDAL 3310</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>READ 3100</td>
<td>Foundations of Reading</td>
<td>3</td>
</tr>
<tr>
<td>CUAI 3430</td>
<td>Methods in Teaching Elementary Mathematics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Section 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 4477/5477</td>
<td>Special Education Assessment</td>
<td>3</td>
</tr>
<tr>
<td>SPED 3300</td>
<td>Instructional Methodology in Spec. Ed</td>
<td>3</td>
</tr>
<tr>
<td>SPED 3400</td>
<td>Behavior Management for Individuals</td>
<td>3</td>
</tr>
<tr>
<td>SPED 3350</td>
<td>Medical Aspects in Special Education</td>
<td>3</td>
</tr>
</tbody>
</table>

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**Speech-Language Pathology**

**Master of Science**

sllprogram@etsu.edu

Graduate School Contact:
Shella Bennett; bennetsg@etsu.edu; 423-439-4708

Brenda Louw, Ph.D., Chair
253 Lamb Hall
Box 70643
email: louwb1@etsu.edu
(423) 439-4315

Kerry Proctor-Williams, Ph.D., Graduate Coordinator
256 Lamb Hall
Box 70643
williamk@etsu.edu
(423) 439-7187

Vujaya Guntupalli, Ph.D., CCC-SLP, Graduate Coordinator
264 Lamb Hall
The program in Speech-Language Pathology is selective and admits students only in the fall semester. For full consideration, applicants to the master's degree students may enroll in clinical practicum.

For admission consideration to the Speech-Language Pathology Program includes:

1. A 3.0 Grade Point Average (GPA) in the undergraduate major;
2. An overall GPA of 2.75 or a GPA of 3.0 in the last two (2) years;
3. Prerequisite coursework* (Conditional admission may be considered for students with a bachelor’s degree who have not completed the prerequisite coursework.)
4. Submission of Quantitative, Qualitative, and Analytical writing score of the general GRE.

In addition to submitting an application and an official transcript of all academic work previously completed, applicants must submit three (3) letters of recommendation which evaluate the student's academic abilities, communication skills, and interpersonal capabilities. Graduates of ETSU are not required to submit these letters if requesting admission prior to or immediately upon finishing the Communicative Disorders undergraduate minor.

Prerequisite coursework needed for conditional and unconditional admission consideration to the Speech-Language Pathology Program includes:

1. A minimum of six (6) credit-hours in the biological/physical sciences.
2. A minimum of three (3) credit-hours in mathematics.
3. A minimum of six (6) credit-hours in the behavioral and/or social sciences that include study that pertains to understanding normal/abnormal human behavior, development across the lifespan, social interaction, and issues of culturally diverse populations.
4. A least fifteen (15) credit-hours in basic human communication processes with at least two (2) credits in each of the following areas of speech, language, and hearing: the anatomic and physiologic bases; the physical and psychophysical bases; the linguistic and psycholinguistic aspects.
5. At least twenty-five (25) clinical observation credits under the supervision of an ASHA-certified professional.

Admission consideration may be given for life/work experience for those individuals who have been out of school for a number of years and do not meet the minimum requirements. International students must meet equivalent admission standards and are expected to be proficient in the understanding and use of English.

Students with an undergraduate degree in fields other than communicative disorders must complete the prerequisite coursework with at least a 3.0 GPA. Individuals may not enroll for courses as graduate non-degree students without the department's and instructor's approval prior to registration. Only graduate degree students may enroll in clinical practicum.

All students accepted for admission into Audiology and Speech Pathology must meet the following requirements prior to enrollment in clinical practicum:

1. A physical examination verifying that the student is in good health and free from communicable disease;
2. A tuberculin skin test or X-ray indicating no risk of communicability;
3. Current Cardiopulmonary Resuscitation (CPR) or Basic Cardiac Life Support (BCLS) certification;
4. Professional liability insurance coverage; and
5. The ability to perform, either unaided or with reasonable accommodation, the following essential functions for clinical practicum in communicative disorders:
   a. Critical thinking skills sufficient for clinical judgment;
   b. Interpersonal skills sufficient for effective interaction with individuals and families from a variety of cultural backgrounds;
   c. Communication skills sufficient for effective written and spoken interaction with others;
   d. Physical mobility sufficient to move from room to room and maneuver in small spaces;
   e. Gross and fine motor abilities sufficient for manipulation of evaluation and treatment instruments and materials;
   f. Visual acuity sufficient for client evaluation and treatment;

**Progression Standards**

Students in the master's program in Speech-Language Pathology must meet the requirements of the School of Graduate Studies to remain in good standing. An overall grade point average (GPA) of 3.0 (“B” or better) must be maintained.

**Degree Requirements**

Students must complete a minimum of 48 credit-hours (39 credit-hours of coursework, 9 credit-hours of clinic practicum). Students must meet the academic and practicum requirements for the Certification of Clinical Competence of the American Speech-Language-Hearing Association.

**Coursework Requirements**

Each degree candidate must complete 29 credits of required concentration courses and 10 credits of electives. Elective choices allow the student to emphasize child or adult populations with communicative disabilities. The electives may be in either concentration area, chosen in consultation with an advisor.

**Thesis and Non-Thesis Options**

Enrolled students may choose a thesis or non-thesis option which represents a culmination of the student's graduate work. Students choosing the thesis option must enroll in CDIS 5690 Thesis, as part of the elective requirement. Students choosing the non-thesis option must successfully complete a clinical case presentation which requires research and studies over at least two (2) semesters with written literature review to substantiate the current clinical and theoretical bases of their case. The case preparation and its oral presentation, representing the creative component of this option, involve the clinical application of the scientific method to the evaluation and treatment of a client.

**Clinical Requirements**

Each degree candidate must complete a minimum of nine (9) credits of clinical practicum. The student must be enrolled in clinical practicum during each semester enrolled and must have clinical experiences at three (3) distinctly different clinical sites. A minimum of 400 clinical clock credits (at least 250 credits on the graduate level) must be earned as part of the graduation requirement. The student is advised, however, that completing the minimum clock-hour requirement is not a goal. Placement to external sites is contingent on clinical performance and supervisory approval.

The master's program in Speech-Language Pathology requires successful demonstration of clinical, as well as academic performance. The following policies pertain to the student’s progression through the clinical coursework:

1. Students must earn a grade of “B” or better in all clinical coursework. If a student earns a grade lower than “B” in a clinical course, the student will be placed on clinical probation the following semester.
2. If the student does not earn a grade of “B” or better in all clinical coursework during the probationary semester, appropriate college/department/program officials will determine if the student be dismissed from the program or continued on clinical probation.
3. No student will be allowed more than two (2) clinical probationary semesters, whether consecutive or cumulative. Failure to earn a grade of “B” or better in all clinical coursework during the probationary semester will result in dismissal from the program.
4. The student must successfully complete the following sequence of clinical competency levels:
   a. Level I - two semesters;
   b. Level II - two semesters;
   c. Level III - one semester.
5. A student placed on clinical probation will not be advanced to higher clinical competency level during the probationary semester.
6. A student placed on academic probation will not be advanced to higher clinical competency level during the probationary semester.
7. Throughout the clinical practicum sequence, students must successfully demonstrate the ability to perform the previously defined essential functions unaided with the assistance of a reasonable accommodation.
8. Students have the right to appeal.

**Required Coursework**

94 2010-2011 Graduate Catalog

East Tennessee State University

Box 70643
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e-mail: guntup@etsu.edu

Faculty:
Pepper Basham; Teresa Boggs; Patricia Chace; Michelle Gurley Ekstrom; Saravanaan Elangovan; Marc A. Fagelson; Vijaya Guntupalli; Kerry Proctor-Williams; Jody Rice; Nancy J. Scherer; Jacek Smurzynski; A. Lynn Williams.

Saravanan Elangovan; Marc A. Fagelson; Vijaya Guntupalli; Kerry Proctor-Williams; Jody Rice; Nancy J. Scherer; Jacek Smurzynski; A. Lynn Williams.

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Saravanan Elangovan; Marc A. Fagelson; Vijaya Guntupalli; Kerry Proctor-Williams; Jody Rice; Nancy J. Scherer; Jacek Smurzynski; A. Lynn Williams.
Master of Arts in Teaching Program:
Core Requirements for all concentrations

Common Core ................................................................. 16 credits
EDFN 5420 Building a Community of Learners: Schools and Schoo\ning ......................................................... 4
MEDA 5400 Integrating Technology in Teaching and Learning ......................................................... 3
SPED 5500 History/Issues/Trends in Educating Exceptional Learners ......................................................... 3
EDFN 5950 Methods of Research ......................................................... 3

One from the following: .............................................................. 3 credits
HDAL 5200 Advanced Educational Psychology or
HDAL 5220 Advanced Adolescent Psychology or
HDAL 5230 Advanced Developmental Psychology or
PSYC 5230 Advanced Developmental Psychology

Elementary Concentration

Curriculum and Methodology .............................................................. 17 credits
CUAI 5440 Elementary School Curriculum and Assessment 3
READ 5441 Reading Communication Block I ........................... 6
READ 5442 Reading/Communications ......................................................... 1
CUAI 5443 Reasoning: Block II Mathematics, Science, Social Studies ......................................................... 6
CUAI 5444 Reasoning Block II Clinical Field Experience II . 1

Professional Semester ................................................................. 12 credits
CUAI 5580 Enhanced Student Teaching ......................................................... 9
CUAI 5400 Seminar Classroom Management ......................................................... 3
Total Credits .............................................................................. 45

Middle Grades Concentration

Curriculum and Methodology .............................................................. 16 credits
CUAI 5450 Middle Grades Curriculum and Assessment .... 3
READ 5437 Reading Instruction in the Middle and Secondary Schools ......................................................... 3
READ 5452 Guided MS clinical Field Experience I ........................... 1
READ 5453 Advanced Middle Grades English/Language Arts ......................................................... 2

Teaching, Master of Arts (Initial Licensure)

Graduate School Contact:
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Aimee Govett, Ed.D., Program Co-Coordinator
4178 Warfi-Pickell Hall
Box 70684
(423) 439-7678 or (423) 439-7588
e-mail: mat@etsu.edu or govett@etsu.edu

Tammy Barnes, Ed.D., Program Co-Coordinator
4178 Warfi-Pickell Hall
Box 70684
(423) 439-4155 or (423) 439-7588
e-mail: mat@etsu.edu or barnesfl@etsu.edu

Faculty:
Tammy Barnes; Lee Daniels; Marcia DOSser; Edward Dwyer; Aimee Govett; Rhona Hurwitz; E. Jane Melendez; Lori Meier, Ryan Nivens, Leslie Perry; Elizabeth Ralston; Jack Rhotor; Chih-Cher Tai.

The Master of Arts in Teaching program is designed for students who have obtained a bachelor's degree in a field other than education. The M.A.T. program is designed to meet teacher licensure requirements at the graduate level in the state of Tennessee. The three concentrations are:

• Elementary M.A.T. program that covers K-6 licensure
• Middle Grades program that covers 7-12 licensure
• Secondary M.A.T. program that covers 7-12 licensure in Biology, Chemistry, Earth Science, Economics, English, French, Geography, German, Government, History, Mathematics, Physics, Spanish, and Speech Communication. We also offer licensure at the 5-12 level in Technology Education licensure as well as licensure at the K-12 level in Physical Education, Art, Music (Vocal General or Instrumental), Theatre, and Health.

Program Admission Requirements
Admission to the M.A.T. program is a two-step process: students must be admitted to the M.A.T. graduate program, and they must be admitted to the College of Education's Teacher Education Program. The applicant should submit official transcripts and three letters of reference.

The final decision for admittance to the M.A.T. program is based on the evaluation of the completed application package and a personal interview.

To be admitted to the M.A.T. program, a student must:
1. Have a baccalaureate degree from an accredited institution of higher learning.
2. Have an overall undergraduate grade point average of 2.75 on a 4.0 scale.
3. Pass a background check
4. Pass Praxis II Content Knowledge Exam for appropriate concentration.
5. Qualify for Admission to Teacher Education as established by the State of Tennessee:
   Have minimum scores on one of the following:
   (1) 22 composite on the ACT (21 before 1989)
   (2) 1020 on the SAT (920 before April 1, 1995)
   (3) Praxis I Pre-Professional Skills Test
6. Applicants will be contacted for an admission interview after the program coordinator reviews completed applications forwarded from the Graduate School.

Upon admission to the M.A.T. program, transcripts will be analyzed to determine which content courses completed as a part of the undergraduate program will apply toward licensure, and which courses may need to be taken during the M.A.T. program. Since this is an initial licensure program, no previous undergraduate education coursework shall be credited toward this degree. Any student wishing to transfer in applicable graduate credit must follow graduate school regulations. However, no credit will be granted for graduate coursework taken more than five years ago.

All applicants must take and pass all required licensure tests before student teaching.
The initial Tennessee teacher’s license will be issued only to those applicants who have completed a teacher preparation program in a Tennessee higher education institution approved by the Tennessee State Board of Education for the preparation of teachers in the area of licensure sought.

If the initial license is not obtained following completion of the approved program, requirements in effect at the time of application must be satisfied. In all cases, current state licensure requirements must be met regardless of when the student enters the program.

A person who holds a Tennessee Teachers Professional License may add teaching area endorsements by completing teacher education programs after the original license has been issued. Such programs include the addition of a secondary endorsement to an elementary license or the addition of an elementary endorsement to a secondary license. A person who holds a Tennessee Teaching License and wishes to add an endorsement in another teaching area endorsements by completing teacher education programs after the student enters the program.

In all cases, current state licensure requirements must be met regardless of program, requirements in effect at the time of application must be satisfied. Such programs include the addition of a teaching area endorsements by completing teacher education programs after the student enters the program.

The Master of Science in technology explores the technologies found in our industrial society, such as implementation and utilization of machines, materials, software, and other technical means, as well as the relation of those elements and systems to human beings, society, and the culture. This program offers four concentrations: engineering technology, digital media, entrepreneurial leadership, and geoscience.

The concentration in engineering technology includes coursework in quality management, project management, and continuous quality improvement. Advanced work in the technical options (such as electronics and manufacturing) can be taken along with relevant courses in management, business administration, computer science, and mathematics.

The digital media concentration provides instruction in the latest techniques of animation, 3D visualization, digital video, interactive multimedia, and digital media project and process management. For more information and examples of student work, visit the web site http://digm.etsu.edu.

The geoscience concentration is designed to provide students with a foundation in research investigations, quantitative techniques, theories of place, and geoscience thought. The concentration provides students with the opportunity to take advanced courses with a focus in geography, geology, or geomatics.

The Entrepreneurial Leadership concentration was formed to provide our graduate students with skills that will help them thrive in the global economy of the twenty first century. The purpose of the Entrepreneurial Leadership concentration is to respond to the ever-increasing need for entrepreneurial leadership skills in the commercialization of innovative technology, and to respond to the broader application of entrepreneurial thinking in existing technology based businesses, health care and higher education. This program is designed to provide the innovative, prudent risk-taker with a practical approach for commercializing innovative technology and for creating wealth by finding implementation methods for transforming creative ideas into value.
producing technology based business models. In this context wealth can be measured in financial terms or in terms of value added in a social or not-for-profit scenario.

Program Admission Requirements
1. An undergraduate major or minor in a technically related area.
2. An undergraduate course in probability and statistics.
3. An overall GPA of 3.0.

Digital Media Concentration

Faculty: *See Technology

The Digital Media Concentration in Technology offers a multidisciplinary approach to research in, and the creation of, digital and interactive communications, animation, video, and design. This program provides students with a combination of theoretical, aesthetic, and technical knowledge necessary for success as digital media developers, creators, evaluators, researchers, and producers. Graduates from the Digital Media concentration will be able to apply and manage new media tools, technologies, and business practices in a rapidly changing environment for communication, instruction, creative production and research; will be able to analyze and evaluate functional and communication aspects of multimedia design and production; and will have attained a theoretical base upon which to produce and manage successful digital media productions.

Students taking courses in the Digital Media Concentration will pay a program fee of $100 per semester hour for each Digital Media course taken to cover program costs for software, equipment, and facilities.

Admission Requirements

Applicants will be selected according to available space and their potential for unique contribution to this highly selective program. Due to the interdisciplinary nature of the digital media field, successful applicants may come from a variety of academic backgrounds—such as art, communication, music, theatre, computer science, technology, architecture, or industrial design—or may have considerable experience in the design and production of digital media products. A student applying for admission must:

1. Provide a portfolio or other evidence of professional competence in one (1) or more elements of digital media such as web production, interactive CD or DVD development, 3-D modeling/visualization, animation, graphic design, computer art, instructional design (distance learning and/or interactive instructional software), video/film, photography, or audio production.
2. Demonstrate competency in multiple software programs as evidenced by work included in the portfolio and as documented in application materials.
3. Have an undergraduate GPA of at least 3.0 on a 4.0 grading scale.
4. Provide a written Statement of Purpose (1,000 - 1,500 words) describing why the applicant intends to pursue.
5. International students must have a TOEFL score of at least 550 (paper score) or 213 (computer score), or 79 (internet), or an IELTS score of 6.5.
6. Include with the application any applicable professional and academic accomplishments (e.g., awards and honors).
7. Include with the application three (3) letters of recommendation.
8. Deadlines for application to the digital media program are March 1 for fall admission, and October 1, for spring admission. Students whose preparation is lacking in certain areas may be required to take additional undergraduate coursework that will not be counted toward the master's degree.

Concentration Requirements

Students in the Digital Media Concentration may select either the thesis option requiring 33 credit-hours including DIGM 5960-Thesis, or the non-thesis option requiring 36 credit-hours including DIGM 5970-Digital Media Research Project.

Core Requirements

All students in the digital media concentration must complete the following core courses:
ENTC 5950 Methods of Research ......................................... 3

DIGM 5820 New Media Communication and Research ........................ 3

Choice of two (2) of the following graduate courses:
ENTC/BADM 5170 Strategic Management of Technology and Innovation ......................................... 3
ENTC 5030 Investigation in Technology ........................................... 3
ENTC 5070 Leading Empowered Problem Solving Teams ................. 3
ENTC 5640 Innovative Entrepreneurship ...................................... 3
ENTC 5630 Project Management .................................................. 3
ENTC 5800 Strategic Experience .................................................. 3
ENTC 5060 Scheduling for Project & Quality Mgmt. ...................... 3

Total Core Hours .......................................................................... 9

Guided Electives

Students must take at least 21 additional hours (Thesis Option), or 24 hours (Non-Thesis Option) of graduate-level guided electives. A combination of research and production electives must be chosen in consultation with your graduate committee chair and/or the digital media program graduate coordinator, and should support your chosen study emphasis.

Select approved elective courses from the list indicated below:
DIGM 5147 Fundamentals of Character Animation ......................... 3
DIGM 5146 Character Animation Graduate Lab ................................ 1
DIGM 5617 Advanced Raster-Based Imaging .................................. 3
DIGM 5616 Raster-Based Imaging Graduate Lab .............................. 1
DIGM 5627 Motion Tools I: Compositing ......................................... 3
DIGM 5626 Compositing Graduate Laboratory ................................. 1
DIGM 5637 Advanced Interaction Design ......................................... 3
DIGM 5636 Interaction Graduate Laboratory .................................... 1
DIGM 5647 Advanced Animation .................................................. 3
DIGM 5646 Animation Graduate Laboratory ................................... 1
DIGM 5657 Advanced Web Design ................................................. 3
DIGM 5656 Web Design Graduate Laboratory ................................. 1
DIGM 5667 Advanced Product Design ............................................ 3
DIGM 5666 Product Design Graduate Laboratory ............................ 1
DIGM 5817 3D Effects Animation .................................................... 3
DIGM 5816 3D Effects Animation Graduate Lab ............................... 1
DIGM 5821 Digital Media as an Art Form ........................................ 4
DIGM 5827 Motion Tools III: Application .......................................... 3
DIGM 5826 Motion Tools III: Graduate Lab ....................................... 1
DIGM 5877 Advanced Modeling and Lighting ................................... 3
DIGM 5876 Modeling & Lighting Graduate Lab .............................. 1
DIGM 5887 Technical Direction for Animation ............................... 3
DIGM 5886 Technical Direction Graduate Lab ................................. 1
DIGM 5900 Independent Study in Digital Media ............................. 1-3
DIGM 5910 Experimental Media I .................................................. 3
DIGM 5915 Experimental Media II ................................................... 3
DIGM 5957 Topics in Digital Media ................................................ 2-4

Guided electives may also be taken in Technology, Computer Science, Art, Communications, Business, Math, and other departments as appropriate to support a student’s chosen study emphasis and as approved by the program.

Internship and Co-Op experiences are encouraged, but credits cannot be applied toward program requirements.

Total Guided Elective Hours .................................................................. 21-24

Guided elective courses may be combined graduate/undergraduate courses. These courses have numbers that end in a “7” (e.g., 5xx7). No more than ten (10) hours, Thesis Option, or eleven (11) hours, Non-Thesis Option, of 5xx7 courses may be applied toward program requirements. Also, no more than ten (10) hours, Thesis Option, or eleven (11) hours, Non-Thesis Option of Independent Study, may be applied toward program requirements.

Culminating Experience

All students in the Digital Media Concentration will be required to complete a “culminating experience” consisting of either DIGM 5960 Thesis (Thesis Option) or DIGM 5970 Digital Media Research Project (Non-Thesis Option). Both the Thesis and the Digital Media Research Project options require that the student work under the guidance of an advisory committee. An oral presentation and defense of the completed culminating work must be scheduled. At this time the committee will conduct a final review of the Thesis or Research Project. The student may (1) pass; or (2) fail, with an opportunity for further study and re-evaluation by the advisory committee. A second failure will result in the student’s dismissal from the program. All M.S. candidates in Digital Media must provide the Department of Technology
with a copy of the completed work, archived in an appropriate format, as approved by the committee.

**Total Culuminating Experience Hours** ........................................... 3
**Total Hours Required for Degree** ................................................. 33-36

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**Engineering Technology Concentration**

**Faculty:  *See Technology**

The Engineering Technology Concentration is for students who plan to become, or are now, involved in supervising or coordinating workers, materials, and equipment in a production system, or who are resolving technical problems related to the courses offered. Individuals completing the program should be qualified to deal with tooling, methods, planning, quality control and reliability, and management aspects of production in manufacturing and other industries.

**Concentration Requirements**

Students in the Engineering Technology Concentration may select either the thesis option, which requires 30 semester hours, including ENTC 5960-Thesis, or the non-thesis option, which requires 36 semester hours, including ENTC 5800-Strategic Experience. Upon completion of either option, the student must take a comprehensive examination.

All engineering technology concentration students must complete the coursework indicated below:

**Core Requirements**

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<th>Course Title</th>
<th>Hours</th>
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<td>Methods of Research</td>
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<td>MGMT 5010</td>
<td>Essentials of Management</td>
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</tr>
<tr>
<td>BADM 5320</td>
<td>Operations Strategy</td>
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<tr>
<td>ENTC/BADM 5170</td>
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</tr>
</tbody>
</table>

**Total Core Hours** ................................................. 9

The remainder of the required graduate hours will be chosen with the guidance and approval of the student's graduate committee to provide advanced education experiences related to the student's career goals.

**Total Hours Required for Degree** ............... 30-36 Credit Hours

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**Entrepreneurial Leadership Concentration**

**Requirements:**

<table>
<thead>
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<th>Course Title</th>
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<td>Entrepreneurial Finance</td>
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<td>ENTC/MGMT 5640</td>
<td>Innovative Entrepreneurship</td>
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<td>ENTC 5800</td>
<td>Strategic Experience</td>
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<tr>
<td>ENTC/MBAD 5050</td>
<td>Leading Continuous Improvement</td>
<td></td>
</tr>
<tr>
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<tr>
<td>ENTC/MBAD 5060</td>
<td>Scheduling for Proj. &amp; Qual. Mgmt.</td>
<td></td>
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<tr>
<td>ENTC/MGMT 5830</td>
<td>Project Management</td>
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</tr>
<tr>
<td>MGT 5010</td>
<td>Essentials of Marketing</td>
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</table>

**Select one of the following concentration electives:**

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<th>Course Title</th>
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<tr>
<td>ENTC/MBAD 5070</td>
<td>Leading Emp. Prob. Solving Teams</td>
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<tr>
<td>ENTC/MGMT 5830</td>
<td>Project Management</td>
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<tr>
<td>MGT 5010</td>
<td>Essentials of Marketing</td>
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</tr>
</tbody>
</table>

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**Geoscience Concentration**

W. Andrew Clark, Graduate Coordinator
203E Wilson-Wallis Hall
Box 70552
(423) 439-5995
e-mail: clarkw@etsu.edu

Students in the Geoscience Concentration must complete 30 credit hours including ENTC 5960-Thesis.

All students in the Geoscience Concentration must complete the following core courses:

**Technology Core**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTC 5030</td>
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<tr>
<td>ENTC 5950</td>
<td>Methods of Research</td>
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</tr>
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<td>MGMT 5010</td>
<td>Essentials of Management</td>
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<td>MGMT 5110</td>
<td>Operations Management</td>
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</tr>
<tr>
<td>ENTC/BADM 5170</td>
<td>Strategic Management of Technology</td>
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</table>

**Total Technology Core Hours** ................................................. 9

**Geoscience Core**

<table>
<thead>
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<th>Course Code</th>
<th>Course Title</th>
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<td>GEOL 5617</td>
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<td>GEOL 5007</td>
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<td>GEOL 5077</td>
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<tr>
<td>GEOL 5110</td>
<td>Seminar in Physical Geography</td>
<td></td>
</tr>
<tr>
<td>GEOL 5117</td>
<td>Resource Management</td>
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</tr>
<tr>
<td>GEOL 5140</td>
<td>Seminar in Regional Geography</td>
<td></td>
</tr>
<tr>
<td>GEOL 5210</td>
<td>Geography in Settlement and Land Use</td>
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<tr>
<td>GEOL 5217</td>
<td>Geographic Information Systems</td>
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<tr>
<td>GEOL 5227</td>
<td>Remote Sensing</td>
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<tr>
<td>GEOL 5237</td>
<td>Advanced Remote Sensing</td>
<td></td>
</tr>
<tr>
<td>GEOL 5257</td>
<td>Geography of Soils</td>
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</tr>
<tr>
<td>GEOL 5267</td>
<td>Hydrology</td>
<td></td>
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<tr>
<td>GEOL 5317</td>
<td>Advanced Geographic Information Systems</td>
<td></td>
</tr>
<tr>
<td>GEOL 5320</td>
<td>Geography Information Systems Projects</td>
<td></td>
</tr>
<tr>
<td>GEOL 5417</td>
<td>The Teaching of Geography and Earth Science</td>
<td></td>
</tr>
<tr>
<td>GEOL 5807</td>
<td>Advanced Field Methods</td>
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<tr>
<td>GEOL 5937</td>
<td>Topics in Geoscience</td>
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<tr>
<td>SURV 5110</td>
<td>Physical Geodesy</td>
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<tr>
<td>SURV 5517</td>
<td>Photogrammetry</td>
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</tr>
<tr>
<td>SURV 5537</td>
<td>Land Boundary Location</td>
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<tr>
<td>SURV 5547</td>
<td>Land Subdivision and Plating</td>
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<tr>
<td>SURV 5567</td>
<td>Positioning with GPS</td>
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<tr>
<td>SURV 5617</td>
<td>Digital Imagery Processing</td>
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</tr>
<tr>
<td>BIOL 5247</td>
<td>Appalachian Flora</td>
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</tr>
<tr>
<td>BIOL 5255</td>
<td>Appalachian Fauna</td>
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<td>BIOL 5347</td>
<td>Biogeography</td>
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<td>PMGT 5180</td>
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</tr>
<tr>
<td>PMGT 5240</td>
<td>Seminar in Public Management</td>
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</table>

The geoscience graduate student will write a thesis (ENTC 5960-Thesis) on a research subject selected by the student with approval by the graduate faculty advisor. The paper will be submitted to appropriate journals for national publication, and the student will present it to the graduate committee as part of the degree requirements.

Students should select a minimum of nine (9) credit-hours from the following:

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<tr>
<td>GEOL 5257</td>
<td>Geography of Soils</td>
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<tr>
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<td>GEOL 5807</td>
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East Tennessee State University
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<td>Kinesiology, Leisure and Sport Sciences</td>
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<td>MCOM</td>
<td>Mass Communications</td>
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<td>Music</td>
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<td>Nutrition and Foods</td>
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<td>Nursing</td>
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<td>Theatre</td>
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<td>JOUR</td>
<td>Journalism</td>
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ACCT 5000 Essentials of Accounting (3 credits)—An accelerated study of accounting elements with an emphasis on the identification, measurement, and communication of data for stockholder and creditor usage. Designed for graduate students with limited or no background in accounting.

ACCT 5010 Seminar in Financial Accounting I (3 credits)—Prerequisite(s): ACCT 3020 or equivalent. A brief history of accounting followed by a study of alternative accounting theory structures, concepts of assets valuation and income determination, measurements, and reporting classification. ACCT 5010 is available only to M. Acc. and M. B. A. students.

ACCT/NRSE/PUBH 5050 Health Care Accounting and Finance (3 credits)—This course applies the concepts of accounting and finance within the context of the health care industry. Course coverage includes basic accounting and finance principles and how these principles are applied in the health care arena. Topical coverage includes financial statement preparation and analysis, cash flow analysis, cost behavior and control, capital acquisition, budgeting, reimbursement mechanisms, and managed care.

ACCT 5100 Managerial Accounting (3 credits)—Prerequisite(s): ACCT 5000 or equivalent. An in-depth study of accounting oriented toward the analysis and interpretation of data for business decision making. This course is not available to M. Acc. students.

ACCT 5310 Seminar in Management Advisory Services (3 credits)—Prerequisite(s): ACCT 4310 or permission of the instructor. A study of consulting services, as practiced in public accounting and industry, including the development, utilization, and control of modern accounting systems.

ACCT 5410 Seminar in Tax Research (3 credits)—Prerequisite(s): ACCT 3410 or equivalent. An advanced study of federal income, estate, and gift taxation with emphasis on tax research and planning.

ACCT 5420 Income Taxes II (3 credits)—Prerequisite(s): ACCT 3410 or equivalent. A study of federal income tax law with emphasis on taxation of corporations and partnerships. Federal taxation of trusts, estates, and gifts are covered.

ACCT 5510 Seminar in Accounting Regulation (3 credits)—Prerequisite(s): ACCT 3020 or equivalent. A comprehensive study of accounting ethics and federal regulations affecting the accounting profession. Areas of study will include the Uniform Commercial Code and Securities and Exchange Commission laws.

ACCT 5527 Financial Statement Analysis (3 credits)—Prerequisite(s): ACCT 2023 or equivalent. An advanced study of accounting standards, professional ethics, legal responsibility, procedures, principles, theory, and practice. Emphasis is placed on developing an appreciation of current trends in auditing.

ACCT 5527 Auditing II (3 credits)—Prerequisite(s): ACCT 4610 or equivalent. A study of auditing concepts with emphasis on the use of statistical sampling, auditing EDP systems, analytic review techniques and objectives, and methodology of operational auditing.

ACCT 5717 Non-Profit Entity Accounting (3 credits)—Prerequisite: ACCT 3020. Theory, concepts, organization, and functions of not-for-profit entity accounting units; an intensive study of accountability, budgeting, financial processes, reporting, and auditing in the not-for-profit entity environment.

ACCT 5720 Government Accounting Issues (3 credits)—Prerequisite(s): ACCT 3020 or ACCT 5000 or permission of the instructor. This course takes a political economy approach and covers significant points of discussion, debate, or dispute in government accounting. It focuses upon the role and function of accounting in government by exploring the character of public budgeting and finance and the uses of government financial information.

ACCT 5810 Seminar in International Accounting (3 credits)—Prerequisite(s): ACCT 3020 or equivalent. An advanced study of the reporting of foreign operations, variations in accounting practices among countries, and current international accounting problems.

ACCT 5890 Professional Accounting Experience (3 credits)—Prerequisite(s): All required M.Acc. core courses or permission of the instructor. This capstone course is designed to provide an opportunity for M.Acc. students nearing the end of their program to apply their knowledge and skills in a professional accounting environment. ACCT 5890 is restricted to students in the M.Acc. program or the M.B.A. program, assuming that the latter meet all M.Acc. foundation requirements.

ACCT 5900 Independent Study in Accounting (1-3 credits)—A course designed for graduate students who, under the direction of an accountant faculty member, wish to engage in independent research or an intensive study of subjects not covered in other available courses. Prior departmental and college approval is needed.

ACCT 5957 Topics in Accounting (1-6 credits)—Prerequisite(s): Senior or graduate standing and permission of instructor. This course gives students an opportunity to study special problems and new developments in the field of accounting.

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

ADVR 5010 Topics in Advertising (1-6 credits)
ADVR 5900 Independent Study in Advertising (1-3 credits)
ADVR 5957 Topics in Advertising (1-6 credits)

ALHE 5000 Information Technology in Allied Health Sciences (1 credit)—This course is designed to aid the first-year graduate student in Allied Health Sciences to become proficient in the use of technology to conduct research and practice. This course will prepare the learner for interpreting basic financial statements and familiarize the learner with managerial accounting goals. The learner will be able to take financial data and formulate strategic decisions based upon the available information to lead an organization toward positive financial goals.

ALHE 5050 Legal and Ethical Issues in Allied Health (3 credits)—This course examines the ethical and bioethical problems confronting health care delivery systems. Selected legal principles and their application to the health care field, including corporate liability, malpractice, informed consent, and governmental regulation of health personnel and health facilities will be addressed. Discussion forums on case studies will be incorporated into the course throughout the semester.

ALHE 5080 Allied Health Curriculum Design (3 credits)—This course is designed to offer the student experience in the development and management of an allied health curriculum in their discipline. Allied health accreditation standards will be discussed and their impact on curriculum design and program outcomes. The students will develop a course of study for their discipline and present this to the instructor during the next to last week of the class.

ALHE 5070 Leadership Theory for Health Care Delivery (3 credits)—This course combines leadership theory and practice by blending discussion of research and theory with practical suggestions for improving leadership effectiveness in the health care environment. Topics include leadership and communication styles, various approaches to leadership, sources of power, and the key to successful influence in leadership. Public, group, organizational, and team leadership will be discussed along with an overview of the four-frame model. Issues essential to the study and practice of leadership in health care delivery will be incorporated.

ALHE 5100 Interdisciplinary Health Care Teams (2 credits)—This course examines the practice and teaching implications of interdisciplinary teamwork in the health care environment. Topics include a discussion on group dynamic, team building, role theory, and conflict resolution.

ALHE 5150 Population Health Issues for the Allied Health Professional (3 credits)—This course examines the role and responsibility of the allied health professional in relation to current population health needs. The course will be guided by a social justice perspective and designed to immerse the student in the community. Case examples of health programs designed to address community health issues and social inequalities add to the analysis process.

ALHE 5200 Assessment Planning and Evaluation (3 credits)—Prerequisite: ALHE 5500. This course examines the process of assessment, planning, and evaluation as they relate to the allied health professional in a leadership role. Students will learn how to assess a problem or situation relevant to their working environments, propose an intervention, and design a logical evaluation plan to measure intervention effectiveness.

ALHE 5350 Administration at the Department Level (3 credits)—This course examines the function of department-level administrators in health care and academic environments. Topics include a discussion on the roles and responsibilities, recruitment, retention, productivity, staff development, and strategic planning for administrators. Case studies will be incorporated into class discussion when appropriate.

ALHE 5500 Methods of Research in Allied Health (3 credits)—This course includes the study of research as it applies to allied health. Methods of conducting qualitative and quantitative research, sampling techniques, statistic analysis, data interpretation, and recommendations will be discussed. The course includes the completion of a research prospectus.

ALHE 5700 Financial and Strategic Planning for ALHE Professions (3 credits)—This course examines the function of health care finance from an allied health manager's perspective. The course will prepare the learner for interpreting basic financial statements and familiarize the learner with managerial accounting goals. The learner will be able to take financial data and formulate strategic decisions based upon the available information to lead an organization toward positive financial goals.

ALHE 5800 Advanced Practice Seminar in ALHE (3 credits)—Prerequisite: ALHE 5500 or permission of instructor. This course provides in-depth practicum experience with an approved preceptor in allied health administration, education, or clinical practice. Student selection of advanced practice experience should be based on concentration of study and approval from the instructor. Upon conclusion of the course, students will complete a project analyzing its impact on their future allied health practice.
ALHE 5900 Independent Study in Allied Health (3 credits) — Prerequisite: Permission of the instructor. This course is designed for students pursuing an in-depth study needed in the field of allied health.

ALHE 5910 Seminar in Allied Health (1 credit) — Prerequisite: Permission of instructor. A study of the principles, materials, and methods of research employed in allied health.

ALHE 5950 Special Topics in Allied Health (3 credits) — This course is offered when there is sufficient demand for additional study in a specific subject matter. May be repeated for different topics. Consultation with the instructor is recommended before enrollment.

ALHE 5980 Thesis (3-6 credits) — Prerequisite: ALHE 5500 or permission of instructor. Research project is developed and written under the supervision of a faculty committee.

ALHE 5990 Readings and Research (1 credit) — Prerequisite: Permission of instructor. Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus MUST enroll for Readings and Research. Variable credits (1-3) of Readings and Research may also be used, as approved by the student’s advisory committee, in conjunction with other coursework to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U).

Accelerated Master of Business Administration (AMBA)

AMBA 5140 Data Analysis and Modeling (3 credits) — Prerequisite: At least three years of professional managerial experience; admission to the accelerated MBA program, or permission of the instructor. This course explores the scope of business research, scientific reasoning, problem identification, hypothesis formulation, and data analysis in an accelerated, case-based approach. Topics in statistical analyses include parametric and nonparametric tests, regression, and the use of statistical software. The course is an intensive, accelerated, case-based approach using both online and on-ground components. Enrollment is by permit only.

AMBA 5150 Accounting Information for Decision Making (3 credits) — Prerequisite: At least three years of professional managerial experience; admission to the accelerated MBA program, or permission of the instructor. A comprehensive study of accounting information and its uses by professional managerial decision makers. Topics include areas in financial and managerial accounting and components of the accounting system, cost and variance analysis, and budgeting. The course is an intensive, accelerated, case study-based approach to accounting information, and is taught with both online and on-ground components. Enrollment is by permit only.

AMBA 5180 Economics for Managers (3 credits) — Prerequisite: At least three years of professional managerial experience; admission to the accelerated MBA program, or permission of the instructor. The course is an intensive, accelerated, case study-based approach to microeconomic and macroeconomic theory, tools, and principles as they relate to problems and decisions that confront professional managers of business and other organizations. Microeconomic topics include demand and supply analysis, production decisions, market structure, and input employment decisions. Macroeconomic topics include measurement of economic activity and performance, macroeconomics, economic policy, and international economic dynamics. The course is an intensive, accelerated, case-based approach to economic analysis and is taught using both on-line and on-ground components. Enrollment is by permit only.

AMBA 5210 Operations and Technologies Strategies (3 credits) — Prerequisite: At least three years of professional managerial experience; admission to the accelerated MBA program, or permission of the instructor. This course presents applications of microeconomic and macroeconomic theory, tools, and principles as they relate to problems and decisions that confront professional managers of business and other organizations. Microeconomic topics include demand and supply analysis, production decisions, market structure, and input employment decisions. Macroeconomic topics include measurement of economic activity and performance, macroeconomics, economic policy, and international economic dynamics. The course is an intensive, accelerated, case-based approach to economic analysis and is taught using both on-line and on-ground components. Enrollment is by permit only.

AMBA 5220 Global Business (3 credits) — Prerequisite: At least three years of professional managerial experience; admission to the accelerated MBA program, or permission of the instructor. This course will provide professional managers with the latest conceptual tools and practical applications related to global business. Topics to be covered include organizational culture, international negotiation, communication and culture, leadership in a global environment, and international project management. The course is an intensive, accelerated, case study-based approach to economic analysis and is taught with both online and on-ground components. Enrollment is by permit only.

AMBA 5230 Strategic Leadership (3 credits) — Prerequisite: At least three years of professional managerial experience; admission to the accelerated MBA program, or permission of the instructor. This course focuses on the leadership roles and responsibilities of strategic managers and top-level managers who are responsible for setting organizational direction, enrolling employee commitment, identifying and managing organizational core competencies, establishing supportive organizational cultures, and ensuring organizational integrity. The course is an intensive, accelerated, case study-based approach and is taught with both online and on-ground components. Enrollment is by permit only.

AMBA 5400 Market Strategy (3 credits) — Prerequisites: At least three years of professional managerial experience; admission to the accelerated MBA program, or permission of the instructor. This course explores the role of marketing in the development of organizational strategy, with emphasis on the business unit and accelerated market strategy learning. Topics of this course include modern approaches and tools to evaluate international and domestic market opportunities. A variety of learning models are used. The class is an intensive, accelerated, case study-based approach and is taught with both online and on-ground components. Enrollment is by permit only.

AMBA 5430 Applied Corporate Finance (3 credits) — Prerequisites: At least three years of professional managerial experience; admission to the accelerated MBA program, or permission of the instructor. Application of analytical techniques to the firm’s investment, financing, and dividend decisions. Topics include capital budgeting; capital structure; short-, intermediate-, and long-term financing; asset valuation techniques; and introduction to finance theory and literature appropriate to professional managers. The course is an intensive, accelerated, case study-based approach and is taught with both online and on-ground components. Enrollment is by permit only.

AMBA 5500 Strategic Management Process (3 credits) — Prerequisites: At least three years of professional managerial experience; admission to the accelerated MBA program, or permission of the instructor. This course introduces students to strategic thinking and provides the framework for the entire MBA program. The course is an executive perspective on general management and provides an understanding of the interdependence between the organization and its environment, with a focus on managing organizations in changing environments, maintaining legitimacy with diverse stakeholder groups, providing clear corporate direction, and ensuring the long-term survival and success of the enterprise. The course is an intensive, accelerated, case-based approach and is taught with both online and on-ground components. Enrollment is by permit only.

AMBA 5800 Strategic Experience (3 credits) — Prerequisites: At least three years of professional managerial experience; admission to the accelerated MBA program, or permission of the instructor; completion of all MBA core courses. (May be taken concurrently with the permission of the Associate Dean for Graduate Studies.) This capstone course is designed to provide MBA students nearing the end of their program with an opportunity to apply the knowledge and skills developed in the program in a realistic problem-solving environment. The course is an intensive, accelerated, case study-based approach to having both on-ground and online components. Enrollment is by permit only.

Anatomy and Cell Biology (ANCB)

ANCB 5000/6000 Human Gross Anatomy (11 credits) — Prerequisite(s): Prerequisite: Permission of the instructor. A study of the structure of the human body as it relates to function. The course presents a three-dimensional analysis of the human body and includes correlated presentations of radiological, clinical and developmental anatomy. Lecture and Laboratory. (fall)

ANCB 5050/6050 Cell Biology (4 credits) — Prerequisite(s): Permission of the instructor. A study of the fundamental unit of life, with emphasis on what we know about cells and how that knowledge is obtained. The course focuses primarily on eukaryotic cells and includes content on cellular evolution, basic genetic mechanisms, structure and function of chromatin, the cell cycle, metabolism, and cytopathology. In addition, emphasis is placed on the various organelle systems in eukaryotic cells and how they interact with membranes and the cytoskeleton. Concepts related to cell signaling, developmental biology, immunology and neurobiology are also introduced in this course. (fall, spring)

ANCB 5080/6080 Biological Ultrastructure (4 credits) — Prerequisite(s): Permission of the instructor. This course presents an introduction to the theory and practice of electron microscopy and includes: tissue preparation for TEM and SEM; structure, components and operation of the electron microscope; darkroom techniques; x-ray spectroscopy; cytochemistry; vascular corrosion casting; and stereology. Students receive practical, hands-on experience in basic techniques. Lecture, laboratories, and demonstrations. (Alternate Year) Enrollment is limited. (spring)

ANCB 5095/6095 Cell and Tissue Biology (7 credits) — Prerequisite(s): Permission of the instructor. The course includes the study of human cells and tissues with emphasis on the relationship of structure to function seen through the use of modern cell biological techniques. Material is presented in four sequential modules: cytology, organology and endocrinology-reproductive biology. The cytology section includes mitosis, meiosis, and cell cycle, but the basic principles of cell organelle structure and function are emphasized throughout the course as they apply to each specialized tissue and organ. Lectures, laboratories and demonstrations. (spring)

ANCB 5200/6200 Cellular, Molecular, and Developmental Biology Seminar (2 credits) — Prerequisite(s): Permission of the instructor. Course involves presentations by both students and faculty of critical, in-depth reviews of particular topics of interest to participants. Students may present topics in class at the discretion of the instructor. (fall, spring)
ANCB 5410/6410 Human Neurobiology (6 credits)—Prerequisite(s): Permission of the instructor. The course involves an extensive analysis of the morphological, physiological, and behavioral aspects of the human nervous system. Clinical conferences will be used to illustrate normal and abnormal mechanisms of neural function and structure. Lecture, laboratory. (spring)

ANCB 5420/6420 Advanced Neurobiology (3 credits)—This course involves an analysis of the morphological basis of neural function in vertebrates. Special emphasis will be placed on the biological basis of behavioral processes and will include topics such as neural development at the cellular and system levels, the role of neurotransmitters in neural function, and the biology of neuronal plasticity. Lecture, demonstrations. (fall, even years)

APST 5500/6500 Special Topics in Developmental Biology (3 credits)—This is a lecture course with special areas of interest to developmental biologists. Discussion would include gametogenesis, fertilization, cleavage, gastrulation and neurulation. (fall, spring, summer)

APST 5600/6600 Special Topics in Cell Biology (3 credits)—This is a tutorial course on special areas of interest to cell biologists. May be taken repeatedly with different topics. (fall, spring, summer)

APST 5700/6700 Special Topics in Neurobiology (3 credits)—This is a lecture course with special areas of interest to neurobiologists. Discussion will include the morphological basis of neural function in vertebrates. (5700 - spring; 6700 - spring, summer)

ANCB 5750/6750 The Living Cell (2 credits)—This course includes briefings on films made by time-lapse cinematography that show cell motility, cell division, cell surface activity, cytoplasmic streaming and maturation of female and male gametes. (fall, even years)

ANCB 5900/6900 Special Problems in Anatomy and Cell Biology (1-5 credits)—Emphasized are advanced research projects of a scope to allow the student to develop skills or establish a specific interest in a research area. May be taken repeatedly with different topics. (fall, spring, summer)

ANCB 5960 Anatomy and Cell Biology Thesis Research (1-3 credits)—Supervised research toward thesis. (fall, spring, summer)

ANCB 7960 Anatomy and Cell Biology Dissertation Research (1-6 credits)—Supervised research toward dissertation. (fall, spring, summer)

ANN 5990/7990 Anatomy and Cell Biology Reading and Research (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus MUST enroll for Readings and Research. Variable credits (1-3) of Readings and Research may also be used, as approved by student's advisory committee in conjunction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Readings and Research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U). (fall, spring, summer)

Anthropology (ANTH)

ANTH 5007 Archaeology of the Southeastern United States (3 credits)—Prerequisite: ANTH 1260. Intensive survey of the prehistory of the Southeastern United States. Covers the span of time from the people of the New World, sometime around 13,000 years ago, up through European contact.

ANTH 5017 Historic Native American Cultures of the Southeastern U.S. (3 credits)—An archaeological survey of the historically known Native American tribes of the Southeastern U.S. Study of native lifeways and the effects of European influence and colonization efforts on aboriginal societies.

ANTH 5037 Old World Archaeology (3 credits)—Prerequisite: ANTH 1260. An intensive survey of the prehistory of Africa, Asia, and Europe from the Palaeolithic Era (including human origins and early hunter gatherer adaptations) through the Iron Age (including the transition to domestication and agriculture as well as the rise of complex societies).

ANTH 5567 Scottish Ethnology (3 credits)—A survey of Scottish ethnic and regional groups and their folk traditions. Topics covered include life history, material culture, subsistence patterns, folk narrative and beliefs and customs.

ANTH 5957 Special Topics in Anthropology (1-6 credits)

Appalachian Studies (APST)

APST 5150 Seminar in Appalachia and Religion (3 credits)—This seminar will look in depth at one aspect of religion in Appalachia. The topic may vary from year to year. Possible topics include missionaries and missionary schools in Appalachia, the sacred music of Appalachia, the nineteenth-century camp meeting movement, religion and literature in Appalachia, and the sociology of minority religion in Appalachia.

APST 5177 Art and Appalachia (3 credits)—Prerequisite: ARTH 2010 or 2020 or APST 2060 or permission of the instructor. A survey of major styles and trends in the arts created in, for, and about the Appalachian region from the late 18th century to contemporary times.

APST 5237 Scots-Irish in Appalachia (3-6 credits)—This course will examine the contribution of the Scots-Irish and Scots to Appalachian culture.

APST 5337 Appalachia in Scotland (3-6 credits)—This course will survey the relationship among Appalachian, Scottish, and Irish cultures, with an emphasis on Scottish and Irish influences on the arts created in, for, and about the Appalachian region from the late 18th century. Students work independently under the supervision of a faculty member who creates the course of study in consultation with the department chair.

APST 5567 Scottish Ethnology (3 credits)—A survey of Scottish ethnic and regional groups and their folk traditions.

APST 5590 Documenting Community Traditions (3 credits)—This cross-disciplinary seminar involves fieldwork in Appalachian communities seeking cultural and economic sustainability through the development of their traditional and contemporary assets.

APST 5900 Independent Study (1-3 credits)—The Independent Study option is designed for individual students who wish to pursue topics not covered elsewhere in the curriculum. Students work independently under the supervision of a faculty member who creates the course of study in consultation with the department chair.

APST 5907 Foodways of Appalachia (3 credits)—Traditional and developing food cultures of the Mountain South. Topics include: the historical roots of Appalachian cookery; food and class in Appalachia; Native American and African influences on mountain cuisine; immigrant cooking in the mountains; the rituals of the mountain table; the products of the land and larder; traditional food preservation techniques and beliefs; and the emergence and viability of sustainable agriculture and aquaculture.

APST 5957 Special Topics in Appalachian Studies (1-3 credits)—The Special Topics course is designed for specific subject matters that are not covered elsewhere in the curriculum. May be repeated when the topic changes.

APST 5997 Current Issues in Appalachian Studies (3 credits)—Seminar surveying major issues and concerns in Appalachian studies since the 1970s.

Art and Design Studio (ARTA)

ARTA 5061 Metalsmithing & Jewelry Design (1-6 credits, repeatable)—(fall, spring) Graduate Studio course in Metalsmithing and Jewelry Design for students accepted into the Art & Design graduate program. May be repeated for credit.

ARTA 5077 Art Study Tour (1-6 credits)—Supervised travel to art leadership seminars and other study tours for credit. Variable credits (1-6) of Readings and Research may also be used, as approved by student's advisory committee in conjunction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Readings and Research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U). (fall, spring, summer)

ARTA 5140 Photography (variable 1-6 credits, repeatable)—(fall, spring) Graduate Studio course in Photography for students accepted into the Art & Design graduate program. May be repeated for credit.

ARTA 5160 Sculpture (variable 1-6 credits, repeatable)—(fall, spring) Graduate Studio course in Sculpture for students accepted into the Art & Design graduate program. May be repeated for credit.

ARTA 5170 Fibers (variable 1-6 credits, repeatable)—(fall, spring) Graduate Studio course in Fibers for students accepted into the Art & Design graduate program. May be repeated for credit.

ARTA 5200 Drawing (variable 1-6 credits, repeatable)—(fall, spring) Graduate Studio course in Drawing for students accepted into the Art & Design graduate program. May be repeated for credit.

ARTA 5201 Figure Drawing (variable 1-6 credits, repeatable)—(fall, spring) Graduate Studio course in Figure Drawing for students accepted into the Art & Design graduate program. May be repeated for credit.

ARTA 5208 Ceramics (variable 1-6 credits, repeatable)—(fall, spring) Graduate Studio course in Ceramics for students accepted into the Art & Design graduate program. May be repeated for credit.

ARTA 5210 Printmaking (variable 1-6 credits, repeatable)—(fall, spring) Graduate Studio course in Printmaking for students accepted into the Art & Design graduate program. May be repeated for credit.

ARTA 5300 3D Studio (variable 1-6 credits, repeatable)—(fall, spring) Graduate Studio course in 3D Studio for students accepted into the Art & Design graduate program. May be repeated for credit.

ARTA 5901 Independent Studies in Graduate Art (1-6 credits repeatable)—(Every semester).

ARTA 5911 Printmaking (variable 1-6 credits, repeatable)—(fall, spring) Graduate Studio course in Printmaking for students accepted into the Art & Design graduate program. May be repeated for credit.

ARTA 5950 Methods of Research in Studio (3 credits)—Required of all graduate students in art. Includes the techniques of supporting paper and thesis writing and the preparation of an acceptable prospectus for a proposed thesis or supporting paper. This course is offered once a year.

ARTA 5957 Special Topics (1-6 credits)—Prerequisite(s): Dependent on subject matter. Selected topics of current interest in art. Offered upon sufficient demand for specific subject matter. May be repeated for different topics. Consultation with the instructor is recommended before enrollment. (as needed)

ARTA 5960 Thesis (1-3 credits)—Prerequisite(s): Admission to candidacy and approval by the department. Final examination of master's thesis. 

ARTA 5990 Readings and Research (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus MUST enroll for Readings and Research. Variable credits (1-3) of Readings and Research may also be used, as approved by student's advisory committee in conjunction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Readings and Research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U). (fall, spring, summer)
independent study. Readings and Research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U).

**Art History (ARTH)**

**ARTH 5007 Renaissance Art in Northern Europe** (3 credits)—Prerequisites: ARTH 2020 or permission of the instructor. European art outside Italy in the fifteenth and sixteenth centuries with emphasis on the art of the Low Lands and Germany. (fall, spring)

**ARTH 5017 Classical Art** (3 credits)—A survey of the arts of Greece and Rome. (fall)

**ARTH 5027 Medieval Art** (3 credits)—A survey of European architecture, sculpture, and painting from late antiquity to the end of the Gothic period. (variable)

**ARTH 4037/5037 Italian Renaissance Art** (3 credits)—Prerequisite: ARTH 2020. Art in Italy from the fourteenth to sixteenth century. (fall)

**ARTH 5047 Baroque Art** (3 credits)—A survey of the major styles of European art from 1600 to 1800: Baroque, Rococo, and Neoclassicism. (fall)

**ARTH 5057 19th Century Art** (3 credits)—A survey of the major styles and trends in art from Neoclassicism to Postimpressionism. (spring)

**ARTH 5067 Modern Art** (3 credits)—Major developments in painting and sculpture from Postimpressionism through Surrealism. (fall)

**ARTH 5077 Contemporary Art** (3 credits)—A survey of art since 1945. (spring)

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

**ARTH 5097 Art History Theory** (3 credits)—A n investigation of aesthetic theories as they relate to the practices of art history and art criticism, with an emphasis on contemporary approaches and philosophical perspectives. (fall)

**ARTH 5107 Art Study Tour** (variable 1-3 credits)—This course is designed to acquaint the student with original works of art. The lecture series is followed by a trip to selected museums in the U. S. and/or Europe. (as needed)

**ARTH 5117 Women Artists and Their Art** (3 credits)—Prerequisites: ARTH or ARTH 2020, WGST 2010, or permission of the instructor. This course examines the contributions of women artists throughout art history and addresses the question of why women’s art has been ignored or denigrated in the study and criticism of art. It also considers how women overcame social, educational, and legal obstacles to becoming professional artists.

**ARTH 5127 History of Architecture** (3 credits)—Prerequisites: ARTH 2010 and ARTH 2020, or permission of instructor. A detailed and critical survey of the history of architecture, from pre-history to the present day, including both western and non-western architecture. (fall)

**ARTH 5177 Appalachian Art** (3 credits)—Prerequisite: ARTH 2010 or 2020 or APST 2060 or permission of the instructor. A survey of major styles and trends in the arts created in, for, and about the Appalachian region from the late 18th century to contemporary times.

**ARTH 5807 Art History Seminar** (3 credits)—Prerequisites: ARTH 5120, ARTH 2020, or ARTH 2010, ARTH 5000, or permission of instructor. An investigation of specific topics or topics in the history of art, including analysis, discussion, and interpretation of works of art and scholarly literature. May be repeated for credit when topics change.

**ARTH 5910 Independent Studies in Art History** (1-6 credits, repeatable)(fall, spring)

**ARTH 5950 Methods of Research in Art History** (3 credits)—Required for all graduate students in art history. Includes the techniques of supporting paper and thesis writing and the preparation of an acceptable prospectus for a proposed or supporting paper. This course is offered once a year.

**ARTH 5957 Special Topics** (1-6 credits)—Prerequisite(s): Subject matter. Selected topics of current interest in art. Offered upon sufficient demand for specific subject matter. May be repeated for different topics. Consultation with the instructor is recommended before enrollment. (as needed)

**ARTH 5980 Thesis** (1-3 credits)—Prerequisite(s): Admission to candidacy and approval by the department. Final Preparation of master’s thesis.

**ARTH 5990 Readings and Research** (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus MUST enroll for Readings and Research. Variable credits (1-3) of Readings and Research may also be used, as approved by student’s advisory committee in conjunction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Readings and Research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U).

**Archival Studies (AVST)**

**AVST 5310 Archives History and Issues** (3 credits)—Introduces the student to archives and the archival profession. The course provides an overview of the development of record-keeping systems, types of archival repositories, the mission of the archivist, legislation and regulations influencing archival work, and contemporary concerns of the archival profession. (fall, spring)

**AVST 5311 Archives Theory and Practice** (3 credits)—Covers the following topics: archival theory and the nature of archives; appraisal and documentation strategies; acquisition and collection development; preservation of archival records; arrangement and description of collections; and reference, access, and outreach functions. (fall, spring)

**AVST 5312 Archives Conservation** (3 credits)—Focuses on the physical nature of archival documents and their preservation, regardless of the documents’ formats. Paper, audio and videotape, film, photographic prints and negatives, and electronic formats will be studied, as will causes and prevention of deterioration, preservation microfilming, digitization, and disaster preparedness. (summer)

**AVST 5315 Topics in Archival Studies** (3 credits)—Prerequisite(s): Permission of instructor. Selected topics of current interest in archival studies. May be repeated for credit when the topic varies. (summer)

**AVST 5520 Principles and Practices of Records Management** (3 credits)—This course focuses on information management, records, the management of records in a hybrid (i.e., electronic and paper) environment, the practices of records managers, and the principles of records management. Linkage to archives will be stressed.

**AVST 5570 Archives Practicum** (3 credits)—Prerequisite(s): AVST 5310, AVST 5311, and AVST 5312. A directed work experience that allows students to apply archival knowledge and skills learned in a classroom setting to an archival setting. With the approval of the Archival Studies Coordinator, the student will work under the supervision of a professional archivist at a local repository. (summer)

**Business Administration (BADM)**

**BADM 5140 Data Analysis Mod. for Business** (3 credits)—Prerequisite(s): ECON 5010 or equivalent. This course examines the need for business research in developing sound decisions and policy and covers a range of statistical analysis topics. Emphasizes the scope of business research, scientific methods, data identification, hypothesis formulation, planning for data analysis, and sampling procedures. Topics in statistical analysis include chi-square tests, analysis of variance, regression and correlation, time series, forecasting, and nonparametric methods. Students are required to prepare the outline of a business research report during a particular policy issue.

**BADM 5150 Accounting Information for Decision Making** (3 credits)—Prerequisites: At least three years of professional managerial experience; admission to the accelerated MBA program, or permission of the instructor. A comprehensive study of accounting information and its uses by professional managerial decision makers. Topics include areas in financial and managerial accounting and components of consolidated financial statements, cost and variance analysis, and budgeting.

**BADM 5160 Information Infrastructure** (3 credits)—Prerequisite: ACCT 5000 or equivalent. This course explores the requirements of information and information systems. It is designed to provide managers with an appreciation of the sources and uses of information in modern enterprises and to help them understand information systems as part of the basic infrastructure of business organizations. The course also examines the use and management of information resources and information technology.

**BADM/ENTC 5170 Strategic Management of Technology and Innovation** (3 credits)—This course applies the concepts of strategic management within a rapidly changing, technological environment. An emphasis will be placed on how organizations use and produce innovative technologies to develop competitive advantages. Specifically, the use of information technology and its role in the strategic management process will be addressed.

**BADM 5180 Economics for Managers** (3 credits)—Prerequisite(s): ECON 5000 or equivalent. This course presents applications of microeconomic and macroeconomic theory, tools, and techniques in the analysis of decisions that confront managers of business and other organizations. Microeconomic topics include demand and supply analysis, production decisions, market structure, and input employment decisions. Macroeconomic topics include measurement of economic activity and performance, macromodels, economic policy, and international economic dynamics.

**BADM 5210 Operations and Technology Strategies** (3 credits)—Prerequisite(s): BADM 5140 and BADM 5150. This course examines the strategic impact of decisions relating to the delivery of products, services and technology in organizations. Applications and case analyses are used to study operational value added and materials management and distribution, management of technologies, and management for continuous improvement.

**BADM 5220 Global Business** (3 credits)—Prerequisite(s): MGMT 5010 or equivalent. This course will provide students with the latest conceptual tools and practical applications on aspects of global business. Topics to be covered include organizational culture, international negotiation, communication and culture, leadership in a global environment, and international project management.

**BADM 5230 Strategic Leadership** (3 credits)—This course focuses on the leadership roles and responsibilities of strategic managers and top-level managers who are responsible for setting organizational direction, enrolling employees in the commitment, identifying and managing organizational core competencies, establishing supportive organizational cultures, and ensuring organizational integrity.

**BADM 5340 Human Resource Strategy** (3 credits)—This course studies human resource management in depth and provides a strategic overview of the essential knowledge and skills required to manage a firm’s human resources effectively. It explores human resources within various structures and with different job, skill, and behavioral requirements. Emphasis is given to the strategic integration of human resource functions within the context of a firm’s task environment.
BADM 5400 Market Strategy (3 credits)—Prerequisite(s): BADM 5300. This course explores the role of marketing in the development of organizational strategies with an emphasis on business unit strategy and market strategy levels. Analytical approaches and tools to evaluate international and domestic market opportunities, competitors and buyers, are introduced and applied in a variety of learning models.

BADM 5430 Applied Corporate Finance (3 credits)—Prerequisite(s): FNCE 5050 or equivalent. Application of analytical techniques to the firm’s investment, financing, and dividend decisions. Topics include capital budgeting, capital structure, short-, intermediate-, and long-term financing, asset valuation techniques, and introduction to finance theory and literature.

BIOC 5500 topics in biochemistry and molecular biology (3 credits)—Prerequisite(s): ECON 5000, MGMT 5010 and MKTG 5010 or equivalents. This course introduces students to strategic thinking and provides a framework for the entire program. It takes an executive perspective of general management. The course provides an understanding of the interdependence between the organization and its environment, with a focus on managing changes in changing environments, maintaining legitimacy with diverse stakeholder groups, providing clear corporate direction, and ensuring the long-term success and survival of the enterprise. BADM 5800 Strategic Experience (3 credits)—Prerequisite(s): BADM 5120 through 5500. (May be taken concurrently with permission of Graduate Studies in Business program director) The course is designed to provide M.B.A. students nearing the end of their program with an opportunity to apply the knowledge and skills developed in the program in a realistic problem-solving environment. BADM 5800 is restricted to students in the program.

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

Biochemistry and Molecular Biology (BIOC)

BIOC 5010/6010 Biochemistry (7 credits)—Prerequisite(s): BIOM 5010-5040/6010-6040 or permission of the course director. Study and discussion of protein structure and biological activity; generation and storage of metabolic energy, lipids and membranes. Lecture and conferences. (spring)

BIOC 5100/6100 Protein Structure and Function (3 credits)—Prerequisite(s): Biomedical Science I-VI or permission of the instructor, or its equivalent. Study of enzyme kinetic mechanisms and the physical chemistry of macromolecules. Techniques of protein chemistry. Three hours per week. (fall, even years; 6100 - spring, even years)

BIOC 5200 Biochemistry Seminar (2 credits)—Presentation by students, faculty, and guests of current research literature or of a particular topic of interest. Students are required to participate in discussions. Can be taken repeatedly for credit. Two hours per week. (fall, spring, summer)

BIOC 5350/6350 Molecular Immunology (3 credits)—Prerequisite(s): Biomedical Science I-VI or permission of the instructor. This graduate course will provide a comprehensive overview of the molecular basis of the immune system. Topics include the structure and function of proteins involved in immune recognition, cytokines and their receptors, and mechanisms of cellular activation. Although previous coursework in immunology is recommended, students without such experience may be enrolled with permission of instructor. Offered alternate years. (fall, even years)

BIOC 5500/6500 Special Topics in Biochemistry (2 credits)—Prerequisite(s): Biomedical Science I-VI or permission of the instructor. Discussion of special topics of interest to biomedical scientists. Can be taken repeatedly for credit with different subject matter. Two hours per week. (fall, spring, summer)

BIOC 5600/6600 Molecular Biology and Genomics (3 credits)—Prerequisite(s): BIOM 5010/6010 - BIOM 5020/6020 required, BIOM 5030/6030 or equivalent recommended. An advanced graduate course on molecular biology and genomics, focused on their principles and research practice. It is intended to provide students with the latest knowledge and methodologies for biomedical research at the level of gene structure, organization and expression in eukaryotic cells. Topics include macromolecular interactions, structure-function relationships, regulation of gene replication and expression, applications of recombinant DNA methodologies, protein engineering and bioinformatics, genome mapping, and DNA damage, mutagenesis and repair. (fall, even years)

BIOC 5700/6700 Biocatalytic and Biocatalytic Interactions (3 credits)—Prerequisite(s): Biomedical Science I-VI or permission of the instructor, or its equivalent. Consideration of the physical and chemical behavior of biological macromolecules and their interactions in biological environments. The forces affecting the conformation, movement and interactions of lipids and proteins in solution and the physical methods that probe these interactions will be discussed. (spring, even years)

BIOC 5900/6900 Special Problems in Biochemistry (1-5 credits)—Research projects of limited scope to allow the student to develop certain skills or to establish a specific interest in a research area. Conference and laboratory. (fall, spring, summer)

BIOC 5990/7990 Readings and Research (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus MUST enroll in Readings and Research. Variable credits (1-3) of Readings and Research may also be used, as approved by student’s advisory committee in conjunction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Readings and Research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U). (fall, spring, summer)

BIOC 5960 Thesis Research (1-3 credits)—Supervised research toward thesis. (fall, spring, summer)

BIOC 6200 Advanced Biochemistry Seminar (2 credits)—Presentation of selected topics of interest by faculty, advanced students, and guests. Requires student preparation for participation in discussion. This course may be repeated for credit. (fall, spring, summer)

BIOC 6900/7900 Biochemistry and Molecular Biology (3 credits)—Supervised research toward dissertation. (fall, spring, summer)

Biological Sciences (BIOL)

BIOL 5037 Coastal Biology Field Trip (1 credit)—Prerequisite(s): BIOL 1110, 1120 and 1130 or equivalent; must have permission of instructor. Intensive field survey of coastal flora and fauna. Extra fees. Course can be repeated for credit with limit of one hour toward major. (fall)

BIOL 5047 Ecological Field Trip (3 credits)—Prerequisite(s): BIOL 1110, 1120, and 1130, or equivalent; must have permission of instructor. An extended field-oriented ecology course (approximately three weeks camping) to outstanding biomes of North America, i.e., deserts, alpine tundra, boreal forest and prairies, involving field instruction, specimen collection, identification of organisms in their natural habitats. Pre-trip and post-trip classroom sessions. Extra fees. Course can be repeated for credit with limit of three credits toward major. (summer)

BIOL 5100 Topics in Cell and Molecular Biology (3 credits)—Current topics in cell and molecular biology, with an emphasis on regulation of cellular processes. Included will be discussions of current approaches and experimental paradigms. Specific topics of discussion will vary each semester, depending on instructor. (spring, odd years)

BIOL 5147 Biochemistry of Macromolecules (3 credits lecture)—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, and lipids; and studies of the production, structure, and function of nucleic acids. Three hours lecture per week. (fall)

BIOL 5157 Biochemistry of Macromolecules Lab (2 credits lab)—Prerequisite(s)/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 & characterization, and DNA isolation & characterization. Experiment planning and interpretation of data generated by the students will culminate in journal-style reports. One four-hour lab per week. (fall)

BIOL 5167 Biochemistry of Metabolism (3 credits)—Prerequisite(s): BIOL 1110 and one year 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 5177 Biochemistry of Metabolism Lab (2 credits)—Prerequisite(s)/corequisite(s): BIOL 4174/5174 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 5200 Topics in Organismal Biology (3 credits)—An exploration of current topics in organismal biology - anatomical, physiological, and developmental aspects of plants and/or animals. Emphasis will be placed on review of current original literature and on evaluation of research methods used to pursue questions in the discussion session. Lecture. Three hours lecture, one hour per week, (fall, odd years)

BIOL 5247 Appalachian Flora (3 credits)—Prerequisite(s): BIOL 1110, 1120 and 1130 or equivalent, or permission of instructor. Field and laboratory identification and ecology of the plants of the Southern Appalachian environs. Sixteen hours lecture and laboratory/field per week. (summer)

BIOL 5257 Appalachian Fauna (3 credits)—Prerequisite(s): BIOL 1110 and 1120 or equivalent, or permission of instructor. Field and laboratory identification and ecology of the animals of the Southern Appalachian environs. Sixteen hours lecture and laboratory/field per week. (summer)

BIOL 5267 Plant Development (4 credits)—Prerequisite(s): Genetics or permission of instructor. Patterns 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 plant development and design and undertake a project of their choice. Two hours lecture and four hours laboratory per week. (spring, odd years)
BIOL 5277 Neurobiology (4 credits)—Prerequisite(s): BIOL 1110/1111, 1120/1121, or equivalent. An introduction to the study of neurobiology. Topics include fundamentals of cellular communication (action potentials, synaptic transmission, neurotransmitter 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 5300 Topics in Ecology and Evolution (3 credits)—An in-depth exploration of topics related to the study of ecological and evolutionary populations. Lectures, reading assignments (including primary research literature), experience with research methods, and discussion. Specific topics of discussion will vary each semester, depending on instructor. (fall, every even year)

BIOL 5337 Plant Histology (4 credits)—Prerequisite(s): BIOL 1110/1111, 1120/1121, 1130/1131 or equivalent. Flowering plant classification and evolution. Characters and methods of traditional plant taxonomy, and computer-based phylogenetic methods using morphological and molecular data sets will be introduced. Plants will be studied in field and lab, and students will use data collected from plant specimens and from GenBank to conduct phylogenetic analysis in various angiosperm groups. Two hours lecture and four hours of laboratory per week. (fall, odd years)

BIOL 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. (fall, every even year)

BIOL 5357 Ethology (3 credits)—Prerequisite(s): BIOL 1110, 1120, 1130 or equivalent. An introduction to the study of animal behavior. Emphasis is placed on the ecological, and evolutionary aspects of animal behavior. Three hours lecture per week. (fall, odd years)

BIOL 5367 Systems Ecology (3 credits)—Prerequisite(s): Ecology or permission of instructor. Computer simulation modeling of ecological systems. Three hours lecture/discussion/workshop per week. (spring, every even year)

BIOL 5400 Topics in Systematic Biology (3 credits)—The course stresses critical inquiry into current approaches in the analyses of evolutionary relationships of organisms. Included will be the application and comparison of methodologies and discussions of recent hypotheses of phylogeny and macroevolutionary trends. Emphasis will be placed on integration of ideas and the impact of theory on understanding biology. Specific topics of discussion will vary each semester, depending on instructor. (spring, even years)

BIOL 5467 Ichthyology (3 credits)—Prerequisite(s): Vertebrate Zoology, or permission of instructor. An introduction to the methodology of fish collection, preservation, and identification. Includes computerized techniques with emphasis on summary reports on fish collections will be emphasized. Two one-hour lectures and one three-hour laboratory per week. (fall, odd years)

BIOL 5477 Ornithology (4 credits)—Prerequisite(s): Vertebrate Zoology or permission of instructor. An introduction to the methodology of bird identification, population censuses, seasonal diversity, and ecology of birds. One three-hour lecture and one three-hour laboratory per week. (spring)

BIOL 5487 Paleobotany (4 credits)—This course concerns the evolutionary history of plants as revealed by the fossil record. Includes an introduction to the concepts of geological time, stratigraphy and sedimentation, fossilization of plants, and the diversity of plants through time. Two one-hour lectures and two three-hour labs weekly.

BIOL 5500 Biometry (3 credits)—Prerequisite: Probability and Statistics. Application of experimental design, accumulation and statistical treatment of biological data. A brief introduction to biostatistical approach. One hour lecture and two two-hour laboratories per week. (spring)

BIOL 5597 Recombinant DNA Laboratory (3 credits)—Prerequisite(s): BIOL 1110, 1120, 1130 or equivalent; plus one year Organic Chemistry. Cell Biology recommended. Theory and practice in molecular biology and recombinant DNA techniques, including recombinant DNA construction and gene transfer. One hour lecture and two-three hour laboratories per week. (spring)

BIOL 5647 Molecular Biology (3 credits)—Prerequisite(s): Genetics, plus one year Organic Chemistry; Cell Biology recommended. Investigations into gene structure, gene expression and its regulation, and modern molecular methodology. Three hours lecture per week. (spring)

BIOL 5700 Seminar (1 credit)—Prerequisite(s): Graduate standing or consent of the instructor. Special topics presented and discussed by students, faculty, and guests. May be repeated for additional credit, but not to exceed two credits. (fall, spring)

BIOL 5737 Conservation Biology (4 credits)—Prerequisite(s): Genetics, 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 testing of population viability analysis. Two hours lecture and one hour discussion, three hours laboratory per week. (fall, every even year)

BIOL 5747 Population Genetics (4 credits)—Prerequisite(s): BIOL 1130 or equivalent. An exploration of mechanisms of genetic change in populations. Theoretical and applied principles will be considered. Emphasis on molecular-based methods. A combination of field and lab exercises. Three hours lecture and three hours laboratory per week. (fall, odd years)

BIOL 5757 Developmental Biology (3 credits)—Prerequisite(s): Vertebrate Embryology 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 two two-hour laboratories per week. (fall, every even year)

BIOL 5767 Plant Physiology (4 credits)—Prerequisite(s): BIOL 1110, 1120 and 1130 or equivalent; plus one semester of Organic Chemistry. 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 the environment. Three hours lecture, one hour oral component per week. (spring, even years)

BIOL 5857 Aquatic Biology (3 credits)—Prerequisite(s): Ecology or permission of instructor. Field trips, collection, identification, and ecology of freshwater plants and animals. One-hour laboratory per week. (spring)

BIOL 5867 Marine Biology (4 credits)—Prerequisite(s): BIOL 1110, 1120, 1130 or equivalent; Invertebrate Zoology recommended. Principles of marine biology with emphasis on habitats and ecological processes. Two hours lecture and two two-hour laboratories per week. (spring)

BIOL 5900 Independent Studies (1-6 credits)—Prerequisite(s): Permission of the instructor and department chair. Independent research on a specific problem under the supervision of a faculty member. A plan of the research must be approved in advance of registration. Candidates for M. S. theses may retake a total of nine credits. (every semester)

BIOL 5910 Research in Biology (1-4 credits)—Prerequisite(s): Permission of instructor. Independent, directed research. Field of study to be determined by mutual consent of the student and faculty advisor. (Each semester)

BIOL 5957 Special Topics in Biology (1-6 credits)—Prerequisite(s): Departmental consent required. Subject matter. Select topic according to sufficient demand for specific subject matter. May be repeated for different topics. Consult with instructor is recommended before enrollment. (fall, spring)

BIOL 5960 Thesis (1-3 credits)—(every semester)

BIOL 5990 Readings and Research (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus MUST enroll for Readings and Research. Variable credits (1-3) of Readings and Research may also be used, as approved by student’s advisory committee in conjunction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately awarded by other types of independent study. Readings and Research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U).

BIOL 5989-99 Internship/Cooperative Education. (1-3 credits)—Students must clear arrangements for this course through the Cooperative Education Office prior to registration. Planned and supervised work assignments in business, industry, and government agencies. Students may alternate between periods (usually two semesters) of full-time study and employment with a cooperative education employer. Credit received carries full academic value and students receive compensation as full-time employees. (every semester)

Biomedical Science (BIOM)

BIOM 5101/5102 Biomedical Science I—Molecular Organization of Cells (3 credits)—First in a four-course multi-disciplinary science sequence that describes the fundamentals of modern biomedical research necessary for all biomedical science graduate students. The course presents a foundation in modern biochemistry, cell and molecular biology. Topics include chemical foundations, protein structure and function, nucleic acids and the genetic code, biomembranes, recombinant DNA and genomics and genetic analysis in cell biology. (fall)

BIOM 5201/5202 Biomedical Science II - Gene Expression and Regulation (3 credits)—Second in a four-course multi-disciplinary sequence that describes the fundamentals of modern biomedical research necessary for all biomedical science graduate students. The course covers topics involved in building and fueling cells including cell transport, cell energetics, protein sorting and cell mobility and shape. (spring)

BIOM 5530/6530 Biomedical Science III - Cellular Anatomy and Physiology (3 credits)—The third in a four-course multidisciplinary sequence that describes the fundamentals of modern biomedical research necessary for all biomedical science graduate students. This course covers topics related to animal body systems and the interactions in development and cancer. (spring)

BIOM 6210 Scientific Communication I (1 credit)—Taken by all first-year doctoral students in the fall. Students will attend seminars by external speakers, faculty and senior students. Students will critique presentations and discuss presentation techniques and style, slide preparation, etc. (fall)

BIOM 6220 Scientific Communication II (1 credit)—Taken by all first-year doctoral students in the spring. Students will make oral presentations on topics
of interest and learn effective techniques for oral and written communication of scientific data. (spring)

BIOL 5110 Graduate Introduction to Biomedical Research (1 credit)—This course will introduce students to the current research of the faculty of the College of Medicine. Departments and interdisciplinary research groups will present a series of short talks describing the research programs of the faculty. Students will meet in different locations and tour the laboratories and facilities. A written report on the scientific topics is required of each student. (fall)

BIOM 5300 /6300 Scientific Ethics (1 credit)—Lecture and group discussion of cases relating to contemporary issues of ethics and integrity in scientific research. Topics include: Scientific integrity, mentoring, scientific record keeping, authorship and peer review, use of animals in research, use of humans in research, conflicts of interest, ownership of data, intellectual property and issues relevant to genetic technology. (5300 - fall, odd years; 6300 - fall, even years)

BIOM 5800/6800 Proteins and Proteomics (3 credits)—Prerequisite: Biomedical Science I and II (BIOM 5010/6010 and 5020/6200), or permission of the course director. This is an advanced course on proteins, proteomics, and computer analysis of proteins. Topics to be covered include: protein structure, molecular modeling, protein purification, sequence analysis, protein-protein interactions, protein-nucleic acid interactions, and proteome analysis, using techniques, such as 2-D-gels and mass spectrometry. Lectures and literature discusses. Offered by permission of the director. (fall, spring)

BIOM 6120 Laboratory Rotations (3 credits)—A series of three to five laboratory rotations in which students gain a understanding of the research problems currently under investigation and the techniques employed in selected laboratories. Students select faculty whose research or research techniques is of particular interest and participate in four- to six-week long rotations involving hands-on laboratory experience and participation in laboratory discussions and other activities. (fall, spring)

**Bluegrass, Old Time, and Country Music (BLUE)**

BLUE 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 5410 Individual Instrumental Instruction (1-3 credits)—A flexibly designed course of study under an experienced musician. It provides an opportunity for the student to build upon intermediate or advanced skills and to develop musically on the path to reaching his or her full potential as an instrumentalist. Can be repeated.

BLUE 5910 Graduate Ensemble (1-3 credits)—A flexibly designed course of study under the direction of an experienced musician and band leader with focus on ensemble performance. Can be repeated.

BLUE 9000 Independent Study (1-3 credits)—Directed study in an area, not provided for in course offerings, for which the student has special interest and adequate preparation, with permission of the director.

BLUE 5957 Special Topics (1-6 credits)—Selected topics in Bluegrass, Old Time, and Country Music. By permission of the director. Can be repeated for credit when content changes.

**Communicative Disorders (CDIS)**

CDIS 5010 Neurological Bases of Communication and Cognition (3 credits)—A study of neuroanatomy and neuropsychology of communication and cognition. This course provides an overview of normal neuroanatomy and neurophysiology of communication, i.e., speech, language, hearing, and other cognitive processes related to communication, such as memory and attention. Emphasis will be primarily on normal speech, language, and other cognitive functions.


CDIS 5017 Speech and Hearing Science I (4 credits)—A study of the basic theories, physics, and acoustics of speech production. Information pertaining to the anatomy and physiology of spoken language also are presented. This course provides a laboratory experience that includes an introduction to the International Phonetic Alphabet and transcriptions of speech from typical speakers with different regional dialects.

CDIS 5025 Clinical Phonology (3 credits)—A study of current issues in linguistic theories related to the assessment and treatment of phonological disorders in children. Emphasis on critical analysis of current research.

CDIS 5027 Speech and Hearing Science II (4 credits)—Prerequisite(s): CDIS 4010. A study of the physiological 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 5030 Fluency Disorders (3 credits)—A study of theories of etiology and the nature, evaluation, and treatment of children and adults with fluency or stuttering disorders.

CDIS 5035 Motor Speech Disorders (3 credits)—Prerequisite(s): CDIS 5010. A study of the neurophysiologic substrates, differential diagnosis, and management of motor speech disorders in adults and children. Apraxia of speech and classifications of the dysarthrias, localization of lesion, and neuromotor basis of speech production are covered. Neurologic diseases and lesions commonly associated with motor speech disorders will be identified. Treatment efficacy issues are researched.

CDIS 5037 Anatomy and Physiology of the Speech and Hearing Systems (3 credits)—A study of the basic anatomy and physiology of speech/hearing mechanisms. Theories and mechanisms of speech production and hearing will also be covered.

CDIS 5040 Adult Language Disorders (3 credits)—Prerequisite(s): CDIS 5010. A study of the differential diagnosis and treatment of dysphasia in adults and children with a focus on neuroanatomy and neurophysiology. Assessment with a clinical bedside exam and videofluoroscopy with emphasis on interpretation of radiographic studies (modified barium swallow). Neurologic diseases and illnesses commonly associated with dysphasia will be described. Management of care is discussed. Treatment efficacy issues are researched.

CDIS 5070 Voice Disorders (3 credits)—A study of etiology, evaluation, and management of vocal pathologies encountered in children and adult clients. Normal voice production and voice disorders are studied from a voice-science perspective involving an interdisciplinary investigation using both clinical and instrumental techniques. Special needs of school-age children, laryngectomy patients, clients with psychogenically based voice problems and professional voice users are presented. Vocal diversity among multicultural populations is discussed.

CDIS 5200 Language Disorders of School-Aged Children (3 credits)—Prerequisite(s): CDIS 5015. A study of language disorders of school-age children and their influence on literacy with emphasis on evaluation, treatment techniques, and collaborative strategies for the administration of services in the schools.

CDIS 5205/5205 Speech-Language Pathology for Audiology Students (3 credits)—This course presents an overview of speech and language development and communicative disorders in pediatric and adult populations for audiologists. The course provides a foundation in normal speech and language milestones, screening procedures, characteristics of individuals with communicative disorders and treatment approaches pertaining to the screening and referral of audiology patients for speech and language services.

CDIS 5210 Communication Problems of the Aging (3 credits)—Prerequisite(s): CDIS 5040. A review of the socio-emotional, perceptual, physical, and cognitive changes associated with aging that affect communicative skills.

CDIS 5240 Pediatric Organic Disorders (3 credits) Prerequisite: CDIS 5015. A study of the genetic, developmental, dental, surgical, psychosocial, audiologic, and speech-language aspects of children with organic pathologies such as craniofacial conditions, autism, mental retardation, assessment and treatment issues for these populations are covered. The course describes the speech-language pathologist's role as a member of a multidisciplinary team.

CDIS 5260 Seminar in Intervention Issues (3 credits)—Prerequisite(s): CDIS 5015. An examination of current research and theoretical issues pertaining to intervention practices in childhood communicative disorders with an emphasis on infant-toddler intervention strategies. The course explores the works of Vygotsky as they apply to intervention with language impaired individuals.

CDIS 5270 Augmentative Communication (3 credits)—Prerequisite(s): CDIS 5015 and 5040. A study of assistive communicative devices utilized by individuals with severe communicative impairments due to physical, sensory or motor impairments. Emphasis on the strategies employed to assess the appropriateness of communicative devices and utilized these devices in communicative situations.

CDIS 5275 Dysphagia Laboratory (1 credit)—Prerequisite(s) or concurrent CDIS 5045. This class provides practical experience in clinical and radiological assessment and treatment approaches for individuals with swallowing impairments. Discussions of ethical issues and counseling procedures associated with dysphagia management will be discussed.

CDIS 5285 Voice Laboratory (1 credit)—Prerequisite(s) or concurrent CDIS 5040. This course presents a study of instruments used in the diagnosis and treatment of voice disorders including laryngeal function, speech intensity, fundamental frequency, sound spectrography and vellopharyngeal function. The diagnosis, management and rehabilitation of the laryngectomy and tracheostomy patient will be addressed.

CDIS 5290 Advanced Adult Neurogenic Cognitive Communicative Disorders (3 credits)—Prerequisite(s): CDIS 5040. An advanced seminar focused on three topics: communicative and cognitive disorders following right
hemisphere damage (RHBD), traumatic brain injury (TBI), and demyelinating progressive neurological diseases. Emphasis is on in-depth understanding of the nature of the disorders and their neurological correlates, the diagnostic tools for assessing the disorders, and critical review of treatment procedures used to remediate the disorders.

CDIS 5295 Counseling in Communicative Disorders (3 credits)—Prerequisite(s): Graduate Standing. Introduction for speech-language pathologists and audiologists to counseling procedures and their use in the management of communicative disorders. Case studies related to counseling and the development of counseling motivations for misbehavior, and the individual and family counseling interventions that can support speech therapy and audiologic practices.

CDIS 5400/6400 Research Methods in Communicative Disorders (3 credits)—A study of research design and methods used in descriptive and experimental research in speech and hearing science. Review of descriptive and inferential statistics.

CDIS 5510 Audiology Clinic for Speech-Language Pathologists (1 credit)—On- and off-campus supervised clinical practica, individually structured for speech-language pathology students, providing evaluation and treatment experiences with auditory disorders of children and adults.

CDIS 5610 Speech-Language Pathology Clinic for Audiologists (1 credit)—On- and off-campus supervised clinical practica, individually structured for the audiology students, providing clinical evaluation and treatment experiences with communicative disorders of children and adults.

CDIS 5620 Speech-Language Pathology Clinic: Child Evaluation/Treatment (3 credits)—Prerequisite(s): CDIS 5015. Supervised experience in the assessment and treatment of children with speech and language disorders.

CDIS 5640 Speech-Language Pathology Clinic: Advanced (3 credits)—Prerequisite(s): Successful completion of three semesters of supervised clinical practica and permission of the speech-language pathology faculty. On- and off-campus supervised clinical practica, individually structured for the student, providing clinical evaluation and treatment experiences with communicative disorders of children and adults. Repeatable.

CDIS 5900 Independent Study (3 credits)—Permission of the instructor and the department chair required. Independent study of research or literature appropriate to the areas of concern to an individual student is arranged.

CDIS 5980 Thesis (3-6 credits)

CDIS 5980 Special Topics in Communicative Disorders (1-6) (variable)

CDIS 5990 Readings and Research (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus MUST enroll for Readings and Research. Variable credits (1-3) of Readings and Research may also be used, as approved by the student’s advisor, as a means of continuing education and work in conjunction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Readings and Research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U).

CDIS 6100 Instrumentation and Acoustic Measurement (3 credits)—This course provides the basics of electronic and digital signal generation. Information pertaining to equipment used for calibration and measurement of acoustic and electric signals is applied to use in the audiology clinic and the hearing science lab.

CDIS 6115 Audiologic Evaluation I (3 credits)—An in-depth study of tests and topics that comprise the clinical domain of audiology. Such material includes audiometric standards, calibration, routine clinic protocols, immittance testing, as well as behavioral and physiological assessments of nonorganic hearing loss.

CDIS 6140 Amplification Systems I (3 credits)—A study of hearing aids, related acoustics, hearing aid selection/fitting procedures, verification of performance measures, and troubleshooting. Demonstrations and laboratory activities are included.

CDIS 6141 Amplification Systems II (3 credits)—Prerequisite(s): CDIS 6140. This class is a study in advanced hearing aid technologies including implantable hearing aids, cochlear implants, and the strategies used to select and verify such fittings.

CDIS 6142 Amplification Systems III (3 credits)—Prerequisite(s): CDIS 6140, 5140/6141. This class examines the most recent innovations in hearing aid technology including digital and programmable amplifying systems. Practical experience with devices and fitting strategies that minimize the effects of noise and their verification in the clinic will be prioritized.

CDIS 6144 Pathologies of the Auditory System (3 credits)—A study of pathological conditions that affect the ear and the sense of hearing. Topics include embryological development and identification of congenital syndromes linked to hearing loss, post-natal maturation, and pathologies affecting the pediatric patient, the effects of aging, and associated adventitious hearing loss.

CDIS 6150 Psychoacoustics (3 credits)—Prerequisite(s): Advanced Graduate Standing. An in-depth examination of psychoacoustics, specifically the physiological, clinical and psychological factors that influence perception of hearing. The class will result in a greater appreciation of the effectiveness, as well as the shortcomings, of clinical audiologic procedures.

CDIS 6160 Audiologic Evaluation II (3 credits)—Prerequisite(s): CDIS 6115. A study of advanced audiologic techniques including multifrequency tympanometry, pure tone and speech audiometry, and special tests employing speech stimuli. Imaging techniques for structure (e.g., CT scans, MRI) and for function (e.g., PET, EEG) are discussed.

CDIS 6180 Pediatric Audiology (3 credits)—A study of hearing loss and its effects on children, the development of auditory behavior, and the techniques and skills utilized for auditory assessment and management of children with auditory disorders.

CDIS 6195 Electrophysiology (3 credits)—An in-depth study of electrophysiological procedures including both vestibular function tests (electrocochleography) and early and late auditory evoked potentials (electrocochleography, brainstem auditory evoked response, middle latency auditory evoked response, late auditory evoked response, and the cognitive responses).

CDIS 6196 Electrophysiology II (3 credits)—Prerequisite(s): CDIS 6195. A study of the advanced audiological diagnostic techniques used for Electric and Magnetic assessment of the auditory system, including ABR, Brain Mapping, AMLR, ALR, P3000, MMN, ENOG, SSER, and VER.

CDIS 6300 Rehabilitative Audiology for Children (3 credits)—A study of communication processes and techniques for rehabilitation of children with hearing impairment including central auditory processing disorders. Discussions of hearing aid orientation, counseling, speech reading, auditory training, cochlear implants, and other relevant techniques used in the management of pediatric hearing disorders.

CDIS 6310 Rehabilitative Audiology for Adults (3 credits)—A study of the rehabilitative processes and procedures used with the adult hearing impaired population.

CDIS 6330 Speech Perception (3 credits)—An analysis of the acoustic properties of speech and an overview of prominent theories of speech perception.

CDIS 6340 Audiology Clinical Practice Management (3 credits)—Prerequisite(s): Advanced graduate standing. An examination of personal, organizational, economic, legal, and ethical issues of autonomous audiology practice. Emphasis is on the managerial role of the audiologist as these issues relate to various models of audiological service delivery.

CDIS 6355 Tinnitus Management (3 credits)—This course will provide an overview of strategies used to diagnose, quantify, and manage tinnitus. Causes and mechanisms of tinnitus generation, exacerbation, and amelioration will be identified. Treatment approaches covered in the class include tinnitus masking, retraining, cognitive behavioral therapy, and use of pharmacological and homeopathic agents.

CDIS 6360 Vestibular Assessment (3 credits)—This course addresses the anatomy and physiology of the normal vestibular system. Administration and interpretation of the basic vestibular test battery including electroneurophysiography will be studied in the context of basic audiologic function and diagnosis.

CDIS 6361 Advanced Vestibular Assessment and Rehabilitation (3 credits)—Prerequisite(s): CDIS 6360. This course addresses the administration and interpretation of computerized dynamic posturography and rotational testing. Vestibular re-education processes and vestibular rehabilitation therapy techniques are linked to measures of treatment outcome measures and an understanding of balance problems in special populations.

CDIS 6370 Hearing Conservation (3 credits)—This course will provide practical applications of the components included in comprehensive hearing conservation programs including: measurement of acoustic energy in a variety of industrial settings, measurement of hearing for occupationally and recreationally noise-exposed individuals, and the provision of education regarding hearing loss and protection to a variety of populations.

CDIS 6410 Audiology Seminar (3 credits)—Prerequisite(s): CDIS 6400. A seminar focusing upon contemporary topics in the diagnosis and treatment of hearing loss, tinnitus, and vestibular disorders. Students will complete and present an original project at a pre-approved research forum.

CDIS 6520 Audiology Clinic (3 credits)—A series of on- and off-campus supervised clinical practica, individually structured for the student, providing evaluation and treatment experiences with auditory disorders of children and adults. Repeatable.

CDIS 6590 Externship: Audiology (6-9 credits)—Prerequisite(s): CDIS 5520 and permission of the audiology faculty. A series of on- and off-campus supervised clinical practica, individually structured for the student, providing evaluation and treatment experiences with auditory disorders of children and adults. Repeatable.

Chemistry (CHEM)

All graduate courses are offered on a rotation basis. All Core courses will be repeated at least every three years.
CHEM 5010 Graduate Seminar (1 credit)—Presentation of current topics of interest by advanced students, faculty, or visiting speakers. A student taking the course for credit is required to present a seminar topic subject to departmental approval. The course may be repeated once for credit. All graduate students and others are strongly encouraged to attend and to participate.

CHEM 5110 Advanced Inorganic Chemistry I (3 credits)—Prerequisite(s): CHEM 4110 or its equivalent. Advanced study in theoretical and descriptive inorganic chemistry, with emphasis on bond theories, periodic table correlations, and reactions of important inorganic compounds.

CHEM 5120 Advanced Inorganic Chemistry II (3 credits)—Prerequisite(s): CHEM 4110 or its equivalent. A study of physical methods used in identifying and studying the structural features of inorganic compounds and techniques used in studying reaction mechanisms with applications in areas of catalysis and bioinorganic reactions.

CHEM 5210 Advanced Analytical Chemistry I (3 credits)—Prerequisite(s): One year of analytical chemistry. An advanced treatment of acid-base, solubility, oxidation-reduction, and complexometric equilibria and their applications in diverse fields. In addition to traditional methods of calculations, and graphical methods, the use of modern spreadsheet software is also included.

CHEM 5220 Advanced Analytical Chemistry II (3 credits)—Prerequisite(s): One year of analytical chemistry. The course provides a survey of the majority of the modern methods of instrumental analysis including spectrometric, electrochemical, and separation techniques. Important topics in each of these areas will also be discussed in-depth.

CHEM 5450 Advanced Laboratory in Chemistry (1-4 credits)—Prerequisite(s): Independent upon subject matter. Consultation with the instructor is required. Advanced laboratory practice in inorganic, analytical, organic, or physical chemistry, depending upon the interest of the student. Individual and group study supplemented with a weekly lecture for background and orientation. Students receive “pass” or “fail” grade. CHEM 5450 does not count toward the required 30 credit hours.

CHEM 5510 Advanced Organic Chemistry (3 credits)—Prerequisite(s): One year of organic chemistry. A survey of modern organic reactions and their applications in the synthesis of organic compounds.

CHEM 5541 Organic Reaction Mechanisms (3 credits)—Prerequisite(s): One year of organic chemistry; one year of physical chemistry. A study of the use of transition state theory, kinetics, isotope effects, and stereochemistry as applied to reaction mechanisms. Pericyclic, nucelophilic, electrophilic, elimination, and carbonyl reactions will be covered.

CHEM 5547 Molecular Orbital Theory for Organic Chemistry (3 credits)—Prerequisite(s): One year of organic chemistry; one year of physical chemistry. Huckel Molecular Orbital theory, the PMO and FMO methods and their applications to chemical reactivity, aromaticity and antiaromaticity, pericyclic reactions, implementations and extensions of the Huckel theory, molecular mechanics, introduction to semiempirical, Ab Initio and Density Functional methods.

CHEM 5710 Chemical Thermodynamics (3 credits)—Prerequisite(s): One year of physical chemistry requiring calculus. An in-depth study of fundamental principles and applications of chemical thermodynamics.

CHEM 5741 Chemical Kinetics (2 credits)—Prerequisite(s): One year of physical chemistry requiring calculus. Experimental and theoretical methods in studying reaction rates and reaction mechanisms, both classical and current.

CHEM 5743 Quantum Chemistry (3 credits)—Prerequisite(s): One year of physical chemistry requiring calculus. An introduction to quantum mechanics emphasizing on the concepts and mathematical methods closely related to chemistry.

CHEM 5817 Introduction to Industrial Chemistry (3 credits)—Prerequisite(s): One year of organic chemistry. A course designed to bridge the gap between basic chemical science and chemical engineering.

CHEM 5950 Research in Chemistry (1-3 credits)—Prerequisite(s): Permission of the chair of the department. A laboratory study on a specific problem entailing original investigation.

CHEM 5957 Special Topics in Chemistry (1-6 credits)—Prerequisite(s): Independent upon subject matter. Selected topics of current interest in chemistry. Offered upon sufficient demand for specific subject matter. May be repeated for different topics. Consultation with the instructor is recommended before enrollment.

CHEM 5960 Thesis in Chemistry (1-3 credits)—Prerequisite(s): Permission of the chair of the department. The incorporation of methods used, literature survey, and the findings associated with the problem undertaken in CHEM 5950 into a thesis.

CHEM 5990 Readings and Research (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty advice is required to present a seminar topic subject to departmental approval. Variable credits (1-3) of Readings and Research may also be used, as approved by student’s advisory committee in conjunction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Readings and Research credit does not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U).

CHEM 5989-5999 Internship/Cooperative Education (1-3 credits)—Students must clear arrangements for this course through the Cooperative Education Office prior to registration. Business, industries, and government agencies provide opportunities for planned and supervised work assignment. Students may alternate between periods (usually two semesters of full-time study) and employment with a cooperative education employer. Credit received carries full academic value and students receive compensation as full-time employees.

CJCR 5000 Criminological Theory (3 credits)—Examination of major theoretical areas within criminology, including social control theory, strain theory, and social learning theory. Contemporary theoretical positions will also be covered such as critical theories and life-course theory.

CJCR 5005 Ethics and Social Justice (3 credits)—Exploration of social and criminal justice ethics as it relates to crime and justice. Issues addressed include punishment, moral and legal responsibility of citizens, and corruption.

CJCR 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 5010 The American System of Justice (3 credits)—An examination of the theoretical and ideological foundations of criminal justice in America. Emphasis on historical perspectives and competing models of justice. Analysis of criminal justice from a systemic framework.

CJCR 5020 American Policing (3 credits)—Survey of theory and research on policing in America. Study of the basic problems faced by the police and alternative perspectives for addressing these problems.

CJCR 5030 Issues in Correctional Treatment (3 credits)—Survey and analysis of contemporary correctional treatment processes, including policy formulation and program administration.

CJCR 5031 American Corrections (3 credits)—Examination of issues in the corrections process, policies, and the goals of contemporary corrections, and the efficacy of correctional programs. Issues in corrections management, correctional case law, and political realities will also be addressed.

CJCR 5040 Law, Society, and Criminal Justice (3 credits)—Definition and philosophies of law, effect of law on society and the criminal justice system. Specialized topics: functions of criminal law, philosophical perspectives of justice and liberty, objectives of law.

CJCR 5050 Seminar in White-Collar Crime (3 credits)—An examination of the concept of white-collar crime, including causes, detection, and treatment of offenders.

CJCR 5070 Juvenile Justice (3 credits)—Comprehensive examination of the nature of American delinquency and the juvenile justice system. Involves critical examination of the history of juvenile institutions. Dominant theories of delinquency, and recent developments in the field are examined.

CJCR 5337 The Death Penalty in America (3 credits)—Various theoretical, ethical, moral, and empirical issues surrounding capital punishment will be explored. Students will be exposed to conflicting points of view regarding race, gender, class, and the death penalty. A critical examination of all sides of this debate will be undertaken.

CJCR 5500 Topical Seminar (3 credits)—Prerequisite(s): Independent upon subject matter. Selected topics of current interest in criminal justice and criminology. May be repeated for credit per Graduate School rules. Consultation with the instructor is recommended before enrollment.

CJCR 5580 Violence: The American Experience (3 credits)—Examination of the various issues surrounding violence; exploration of the roots of violent behavior. Theoretical perspectives will be analyzed, with emphasis on biological, psychological, and sociological explanations.

CJCR 5850 History of Criminological Theory (3 credits)—Examination of competing explanations of crime throughout history to include preclassical, classical, neoclassical, positivist, and social reaction schools of thought. Assumptions of each perspective will be analyzed. Major theories and the theorists from each school will be examined.

CJCR 5855 Research Design in Criminology (3 credits)—Prerequisite(s): Undergraduate statistics course, CJCR 3000 or equivalent. Focus on research methodology as it relates to criminological inquiry. Issues in sampling, variable operationalization and measurement and research design will be covered.

CJCR 5900 Special Problems in Criminal Justice (1-3 credits)—Prerequisite(s): Permission of the instructor. Supervised study of research focusing on a selected problem in the field.

CJCR 5950 Quantitative Methods in Criminology (3 credits)—Prerequisite(s): Undergraduate statistics course, CJCR 3000 or equivalent. Introduction to statistical analysis and modern statistical applications using computer software. Hypothesis testing, measures of association, and the general linear model will be covered. Special emphasis will be placed on the role of statistical analysis in criminology.

CJCR 5960 Thesis in Criminal Justice (1-3 credits)—Prerequisite(s): Independent upon subject matter. Selected topics of current interest in criminal justice and criminology. May be repeated for different topics. Consultation with the instructor is recommended before enrollment.
CSCI 5011 Internet Technology I (3 credits)—Prerequisite: CSCI 5011. This course is intended to build upon a student's background in HTML web page and site design by teaching skills such as advanced web page and site design, web site management, usability, accessibility, marketing principles, optimization for search engines, outsourcing, and emerging technologies.

CSCI 5017 Introduction to Information Assurance (3 credits)—Prerequisite(s): CSCI 1100; Corequisite(s): Senior or graduate standing. The course provides an introduction to information assurance for Non-Computer Science majors including security risks of personal computers and computing environments and requirements and mechanisms for assuring information quality. The course is intended to meet the need for hands-on practical instruction.

CSCI 5027 Information Management (3 credits)—Prerequisite(s): Permission of instructor. 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 5057 Advanced Internet Technologies (3 credits)—Prerequisite(s): Permission of instructor. This course provides training in state-of-the-art Internet design tools by building upon students' background as programmers. Topics will address advanced issues in design, optimization, and maintenance of web pages and web-based systems as the latest in server and client-side programming, and other emerging technologies.

CSCI 5067 Networking Essentials (3 credits)—Prerequisite(s): Permission of instructor. General concepts of data communication and networking using popular conceptual models, together with recent developments in system administration with regard to current operating systems.

CSCI 5097 Emerging Technologies (3 credits)—Prerequisite(s): Permission of instructor. The course is designed to cover the most up-to-date topics in computer science and technology. Due to the nature of changing technology, topics will vary to keep up with current developments.

CSCI 5100 Computer Architecture: Advanced Concepts (3 credits)—Prerequisite: CSCI 4171 or 5171 or consent of the instructor. A detailed view of recent advances in computer architecture. Topics include: the classic Von Neumann model; language-directed architectures; object-oriented architectures; data-flow graphs; parallel processing; basic classification schemes (Flynn's taxonomy, et al.); pipeline, vector, and array processing supercomputers; special-purpose architectures; associative memory and associative processors; microprogramming concepts; fault-tolerant computers; interrupts and I/O processing; computer systems performance measurement and evaluation. Laboratory use of the computer in designing, coding, debugging, and executing programs is an integral part of the course. (Irregular)

CSCI 5127 Database Management Systems I (3 credits)—Prerequisite(s): CSCI 2210 and 2230, or 2910. Does not apply toward credit for computer science M.S. degree. 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. (Most semesters)

CSCI 5150 Topics in Distributed Systems (3 credits)—Prerequisite(s): CSCI 4727 or 5727 or consent of the instructor. Also recommend: programming experience in C/C++, and a prior course in networking and data communications. Issues in the design and implementation of distributed systems. Topics include the importance of distributed systems; salient features of distributed systems architectures; characteristics of distributed computations; mechanisms for activating computations, message-passing, synchronization, and scheduling in distributed systems; distributed file systems; distributed shared memory; cooperation and consensus; fault tolerance; and replicated data management. (Fall, alternate years)

CSCI 5157 Interactive Graphics (3 credits)—Prerequisite(s): CSCI-2210 and MATH-2250 or permission of the instructor. Point plotting, vector generation, interactive techniques, two- and three-dimensional transformations, perspective depth, hidden line elimination, shading, colors, and mapping. Development and use of graphics software packages. Laboratory use of the computer will be an integral part of the course.

CSCI 5200 Software Systems Engineering (3 credits)—Prerequisite(s): Admission to the computer science master's degree program. Permission of the instructor must be obtained for non-computer science graduate students. This course exposes students to the development of software systems at the highest level. It introduces the system aspect of development and the related trade-offs required when software and hardware are developed together. An overview of software development life cycles is presented. The course exposes students to requirements analysis techniques to develop a system from those requirements. (Fall, alternate years)

CSCI 5210 Specification of Software Systems (3 credits)—Prerequisite(s): CSCI-1900 and CSCI 2210 or CSCI 2910, or consent of instructor. Specification occurs at many levels in software engineering. High-level specifications often attempt to capture user requirements, while detailed functional specifications often describe implementation decisions. This course covers several different models of and languages for specification of software systems. The role of documents and standards is also covered. (Irregular)

CSCI 5217 Ethical Issues in Computing (3 credits)—Prerequisite(s): Reference. 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. (Spring)

CSCI 5220 Software Verification and Validation (3 credits)—Prerequisite(s): CSCI 4171 and MATH 2710 or consent of the instructor. This course introduces the theory and practice of ensuring high-quality software products. Topics covered include quality assessment, proof of correctness, testing, and limitations of verification and validation methods. (Spring, alternate years)

CSCI 5227 Advanced Database Systems (3 credits)—Prerequisite(s): CSCI 4127/5127. This course explores the use and understanding of the software and hardware that make database design begin in CSCI 4127/5127. Students will learn more of the internal workings 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. (Most semesters)

CSCI 5230 Software Project Management (3 credits)—Prerequisite(s): Admission to the master's program. Co-requisite: CSCI 5200. Process considerations in software systems development. Advanced material in software project management, methodology, and controlling mechanisms, leadership, and team building. (Spring, alternate years)

CSCI 5250 Database Design (3 credits)—Prerequisite(s): An undergraduate database management course, or consent of the instructor. Database design serves as a unifying mechanism for the seemingly diverse fields of data semantics, database management software, and physical design. Different methods for expressing designs at appropriate levels of abstraction are covered. Evaluation criteria for design assessment are introduced and design methods are evaluated according to these criteria. This course attempts to integrate theoretical and practical aspects of database design. (Spring, alternate years)

CSCI 5300 Software Design (3 credits)—Prerequisite(s): CSCI 5200. Students should have a good working knowledge of programming in a small. Experience in designing small systems is helpful. Design is a central activity of software development. This course covers several different methods and languages for expressing designs. Criteria for evaluating designs are introduced, and design methods are evaluated according to these criteria. The concepts of design verifiability and reusability are stressed. (Spring)

CSCI 5317 Internet and Computer Law (3 credits)—Prerequisite(s): Completion of 60 credits or approval of the instructor. A multi-disciplinary overview of the relationship between the Internet and the laws of privacy, right to accurate information, access to information, first amendment, patents, trade secrets, trademarks and unfair business practices, jurisdiction, e-commerce, telecommunication, and antitrust.

CSCI 5360 Topics in Network and System Administration (3 credits)—Prerequisite(s): CSCI 4417/5417. Selected intermediate-level topics in network and system administration. Topics include protocols and tools for network administration; NAT, VPNs, and proxy servers; scripting techniques for automating system administration; performance tuning; LDAP administration; cluster administration; and miscellaneous standards and technologies. (Spring, alternate years)

CSCI 5417 Introduction to System Administration (3 credits)—Prerequisite(s): CSCI 2150 and 2235. A survey of concerns related to management and design of local area networks. Topics include the practice of system administration; overview of network operating systems; best practices for system administration; Unix and Windows system administration; routing; network design; and remote network access. The course provides hands-on experience with setting up and administering Unix and Windows network operating systems. (Most semesters)

CSCI 5460 Network and Information Security (3 credits)—Prerequisite(s): CSCI 4417/5417. A survey of concerns related to system security in a networked environment. Topics include threats to system security; common software vulnerabilities; tools for attacking system security; tools for defending system security, including cryptographic utilities; recovering from security episodes; and the ethics of incident response. (Fall, alternate years)
CSCI 5517 Essentials of Multimedia (3 credits)—Prerequisite(s): Senior or permission of the instructor. A study of the basic elements of multimedia including text, audio, vector graphics, animation, and 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 are emphasized.

CSCI 5520 Research Methods in Computer Science (1 credit)—Prerequisite(s): Admission to the computer science master’s program. An introduction to academic research, as conducted in the computer sciences. Topics include forces shaping computing research, types of research, quality in research, avenues for disseminating research, resources for locating published research, and expectations for theses and project reports. Students will be required to complete an application for one of the capstone sequences: i.e., one of software engineering, computing research, and computing tools. The course will cover the design, implementation, and evaluation of computer-based training modules using one or more authoring systems. This course will be on the use of hypermedia and multimedia tools, analysis of instructional goals and their evaluation, and the use of the World Wide Web for delivery of instruction. Laboratory experiences and group projects will be integral parts of this course.

CSCI 5550 Directed Research 1 (3 credits)—Prerequisite(s): CSCI 5520 and consent of advisory committee chair. In this course, the student, in consultation with the student’s advisory committee chair, continues research undertaken in CSCI 5550 and begins to write a thesis. The oral presentation to the graduation faculty is required. Content and deliverables are defined by a written agreement signed by the student and the student’s advisory committee chair. (fall)

CSCI 5551 Directed Research 2 (3 credits)—Prerequisite(s): CSCI 5550. The student, in consultation with the student’s advisory committee chair, continues research begun in CSCI 5551. The research on which the student is working is developed into a thesis paper suitable as a topic for a master’s thesis. Successful completion of this course should prepare the student to begin writing a master’s thesis. The student is required to give an oral presentation of results obtained in this course to the graduate faculty. Course content and deliverables are defined by a written agreement signed by the student and the student’s advisory committee chair. (every semester)

CSCI 5561 Formal Languages and Computational Complexity (3 credits)—Prerequisite(s): CSCI 5540, CSCI 5510, CSCI 5610. Problem solving is a fundamental aspect of computer science. This course teaches students how to reduce a computational problem to its simplest form and analyze the problem to determine its inherent computational complexity. Topics include formal languages and automata theory, Turing machines, computational complexity, and the theory of NP-completeness. (irregular)

CSCI 5567 XML for Programmers (3 credits)—Prerequisite(s): CSCI 2020 and (CSCI 2210 or CSCI 2910). An introduction to developing data models, datasets, and reports using XML family technologies. Topics include the modeling, querying, and transformation of content using XML family standards, including XML namespaces, XML schema, XSL, XSLT, and XQuery. (spring)

CSCI 5620 Analysis of Algorithms (3 credits)—Prerequisite(s): Differential and integral calculus, discrete structures, data structures. This course covers basic techniques for analyzing algorithmic complexity. It describes the design and analysis of selected algorithms for solving important problems that arise often in applications of computer science, including sorting, selection, graph theory problems (e.g., shortest path, graph traversals), string matching, dynamic programming problems, NP-complete problems. (fall, alternate years)

CSCI 5710 E-Commerce Implementation (3 credits)—Prerequisite(s): Admission to the computer science master’s degree program. This course gives students the opportunity to become conversant in the major topics surrounding business-to-consumer (b2c) and business-to-business (b2b) electronic commerce and enterprise application integration. Students also gain experience implementing a large scale b2c Internet application. (fall, alternate years)

CSCI 5717 Computer Architecture (3 credits)—Prerequisite(s): CSCI-2210, CSCI-2160, or consent of the instructor. Does not apply toward credit for computer science M.S. degree. Computer systems are viewed as consisting of a series of layers or levels, one on top of the other. Topics of computer architecture are presented, including microprogramming, stack computers, parallel computers, pipeline processing, multiprocessors, virtual storage, cache storage, addressing schemes, I/O and interrupt structure, (spring)

CSCI 5720 Enterprise and E-Business Integration (3 credits)—Prerequisite(s): Admission to the computer science master’s degree program. This course gives students the opportunity to become conversant in the major topics surrounding business-to-consumer (b2c) and enterprise application integration. Students also gain experience implementing a b2b and enterprise application components. (spring, alternate years)

CSCI 5727 Operating Systems (3 credits)—Prerequisite(s): CSCI-2210, CSCI-2160. Does not apply toward credit for computer science M.S. degree. The study of computer operating systems, 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. Related topics of networking and security are introduced. Case studies of representative commercial operating systems highlight the main features common to all operating systems. Laboratory use of the computer is an integral part of the course. (spring)

CSCI 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 developing 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. (irregular)

CSCI 5900 Independent Study (1-9 credits)—(every semester)

CSCI 5905 Internship (1-9 credits)—Prerequisite(s): Students with work experience related to the practice of computing. This course does not count for credit towards a student’s degree. Departmental approval required.

CSCI 5910 Software Development Project I (3 credits)—Prerequisite(s): CSCI 5520 and instructor’s permission. Students who are conditionally admitted to the graduate program must remove all conditions before enrolling in this course. The software capstone course sequence (CSCI-5910, CSCI-5920, CSCI-5930) provides an opportunity for students to demonstrate their ability to apply the knowledge and skills gained in other courses to synthesize a solution to a significant, realistic and ultimately practical problem. Students are expected to complete all three courses consecutively (fall, spring, fall). The planning phase of the project will be conducted in this course. A planning document describing the various subtasks that will be carried out, their deadlines, configuration management, testing and evaluation procedures will be produced. (spring)

CSCI 5920 Software Development Project II (3 credits)—Prerequisite(s): CSCI 5910 or instructor’s permission. The detailed design and implementation of the project begun in CSCI-5910 will take place during this course. This work will be accomplished by the project teams in collaboration with the users of the proposed system and with the instructor. The instructor will assume the role of the master designer in a master/apprentice relationship. (fall)

CSCI 5930 Software Development Project III (3 credits)—Prerequisite(s): CSCI-5920 and instructor’s permission. This phase of the project and teaches students to be critical of their own work and to be realistic about their plans. This course’s main purpose is to determine to what degree the original plans were realized and to discover the shortcomings of the production process and the end product. It also includes an analysis of possible improvements and some attempts to revise the product accordingly. The end result of this work is a document of the character of a master’s thesis that describes an analysis of various project aspects rather than a system design. Students must take full responsibility for ensuring that the work is done in the spirit of a master’s thesis defense, in which the student will be expected to articulate to a faculty jury what they have learned as part of the design studio project process. (spring)

CSCI 5957 Special Topics in Computer Science (1-6 credits)—Prerequisite(s): Permission of the instructor. Special topics not covered in other courses. May be repeated for credit with departmental approval if the topics are significantly different. (variable)

CSCI 5960 Thesis in Computer and Information Sciences (1-3 credits)—Prerequisite(s): CSCI 5511, completion of the pre-capstone courses for the student’s advisory committee chair. A major research project is conducted and reported according to university and departmental thesis standards. (every semester)

CSCI 5989/5999 Internship/Cooperative Education (1-3 credits)—Planned and supervised work experiences in business, industry, and governmental agencies. Students spend the semester working with a cooperating employer on specific assignments. Students must clear arrangements through ETSU’s Office of Career and Internship Services prior to registering for this course. Students may receive compensation for this course as employees. This course does not count for credit toward a student’s degree. (every semester)

CSCI 5990 Readings and Research (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus MUST enroll for Readings and Research. Variable credits (1-3) of Readings and Research may also be used, as approved by student’s advisory committee in conjunction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Readings and Research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U).

Curriculum and Instruction (CUAI)

CUAI 5110 Elementary Curriculum (3 credits)—This course is designed to investigate the current issues and trends related to curriculum development in the early elementary grades (K-6). Emphasis is placed on developing teachers’ leadership skills for initiating positive change in the school curriculum.

CUAI 5113 Instructional Excellence in Mathematics (K-8) (3 credits)—This course is designed to integrate research on the teaching and learning of elementary school mathematics and to develop strategies for mathematics instruction. Students will be required to design an action research project for this course.
CUAI 5141 Block I: Communications Field Experience (1 credit)—Prerequisite(s): Admission to Teacher Education or permission of M. A. T. program coordinators: EDFN 5405 and EDFN 5411. Corequisite(s): CUAI 5419. This course is a school-based field experience that focuses on methods used to teach a holistic language arts program. In this experience students will learn to use teaching techniques and strategies that will permit them to engage children’s literature as they cross the curriculum into varied content areas.

CUAI 5419 Block I: Communications Field Experience (1 credit)—Prerequisite(s): Admission to Teacher Education. Corequisite: EDFN 5411. This course is a school-based field experience that focuses on methods used to teach a holistic language arts program. In this experience students will learn to use teaching techniques and strategies that will permit them to engage children’s literature as they cross the curriculum into varied content areas.

CUAI 5416 Elementary School Mathematics (3 credits)—This course is designed to investigate the current trends and issues that affect methodology and content in a social studies curriculum (K-8).

CUAI 5417 Secondary School Curriculum and Methodology (3 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. (fall)

CUAI 5420 Secondary Curriculum - Development, Practice, and Assessment (3 credits)—Prerequisite(s): Admission to Teacher Education. Corequisite(s): Enrollment in CUAI 4415/5417 Secondary School Curriculum and Methodology. This field experience provides students with a school setting to implement class activities. Students are required to spend 30 credits working primarily with one mentor and a single class of students. (fall, spring)

CUAI 5423 Secondary Curriculum - Development, Practice, and Assessment (1 credit)—Prerequisite(s): Admission to Teacher Education. Corequisite(s): Enrollment in CUAI 4425/5427 Secondary School Curriculum and Methodology Field Experience. This course focuses on teaching and learning in secondary schools and includes the study of curriculum and methodology suitable for a variety of life and learning styles. (fall, spring)

CUAI 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. (fall)

CUAI 5438 Secondary Clinical Field Experience II (1 credit)—Prerequisite: Student must be admitted to teacher education. Corequisite: CUAI 5444. This course is taken concurrently with Content Area methods. The course includes an integrative set of learning experiences that encompasses content, process skills, and issues drawn from mathematics, science, and social studies. The course is designed to explore common and unique characteristics of these subjects as they are taught in K-6 schools. (fall, spring)

CUAI 5443 Reasoning Block II K-6 (6 credits)—Prerequisite: READ 5441. Corequisite: CUAI 5444. The reasoning methods block is an integrated set of learning experiences that encompasses content, process skills, and issues drawn from mathematics, science, and social studies. The course is designed to explore common and unique characteristics of these subjects as they are taught in K-6 schools. (fall, spring)

CUAI 5444 Reasoning Block Clinical Field Experience K-6 (1 credit)—Prerequisite: Students must be admitted to teacher education. Corequisite: CUAI 5443. This course is a school-based clinical field experience. The course provides clinical field experience in secondary school in appropriate content classrooms. (fall, spring)

CUAI 5445/Block I: Reasoning (6 credits)—Prerequisite(s): Admission to Teacher Education or permission of M. A. T. program coordinators; Corequisite: CUAI 5419. This course focuses on teaching and learning in secondary schools and includes the study of curriculum and methodology suitable for a variety of learning styles. (fall, spring)
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English proficiency that negatively affect their comprehension of English in print. (spring)

CUAI 5450 Middle School Curriculum and Assessment (3 credits)—Prerequisite: EDFN 5420 or permission of instructor. This course is designed to investigate issues and trends related to curriculum development and assessment of adolescents in the middle grades. Students examine the philosophy of middle grades education; the structure, development, and changing nature of the curriculum for grades 4-8; and the many facets of assessment for students grades 4-8. (fall, spring)

CUAI 5454 Teaching Middle Grades (408) Mathematics (2 credits)—Prerequisites: Admission to teacher education, READ 4543, and READ 4542. Corequisites: CUAI 5454, and admission to teacher education. This course provides the minimum of 30 hours of field experience in grades 4-8, with attention paid to national standards, problem solving, diversity, current technologies, assessment, current issues in mathematics education, reflective teaching and learning, and the application of mathematics content to everyday life. (fall, spring)

CUAI 5455 Social Studies Methods for the Middle Grades (2 credits)—Prerequisites: CUAI 5400 and admission to teacher education. Corequisite: CUAI 5458. A study of content specific methodology for middle school social studies (grades 4-8). The course focuses on planning, instruction, assessment, teacher resources, technology, and classroom climate. Students design and implement learning experiences that incorporate meaningful uses of social studies concepts during field experiences as well as become familiar with the standards, pedagogy, and assessment in social studies. (Evaluate Level of the Teaching Portfolio is required.) (fall, spring)

CUAI 5457 English as a Second Language (ESL) Methods and Techniques (K-12) (2 credits)—This course explores pedagogical approaches to teaching Limited English Proficient (LEP) students in the K-12 classroom. Some of the approaches to be explored are the natural approach, total physical response (TPR), cooperative learning, the language experience, integrated language teaching, whole language, and the cognitive academic language learning approach (CALLA). (summer)

CUAI 5458 Guided Middle Grades Field Experience (1 credit)—Corequisites: CUAI 5454 and SCED 5454. A school site field experience course that addresses Tennessee's standards for pre-service teacher educators. Students use and manage available technology and explore uses for teaching, learning, and assessment. The focus of the course promotes professional growth and productivity in the use of technology to support instruction in the middle grades reading/language arts classroom. The online D2L system will be used, supplemented by other methodology. Thirty hours of field work is required in an area school. The Evaluative Level Portfolio is required. (fall, spring)

CUAI 5467 English as a Second Language (ESL) Curriculum Development (K-12) (2 credits)—This course exposes K-12 practitioners to curricular strategies that have been field tested in K-12 classrooms and found to support student learning. The strategies under investigation were developed by teachers and researchers working together to provide an education to children beginning to learn English. Strategies were selected on the basis of their usefulness in making rigorous core curriculum meaningful to students whose knowledge of English might otherwise hinder their academic progress. (summer)

CUAI 5517 Math Methods for Early Childhood (3 credits)—Prerequisite(s): Admission to Teacher Education and completion of all math requirements. Corequisites: This course is to be taken with CUAI 4527/5527 and 4537/5537. This course explores current mathematics and materials for teaching mathematics to Pre-K-4 early childhood students. Appropriate field experiences are required. (fall, spring, summer)

CUAI 5537 Integrated Field Experience for Early Childhood (1 credit)—Prerequisite(s): Admission to Teacher Education and successful completion of undergraduate math and science requirements. Corequisites: 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. (as needed)

CUAI 5547 Emergent Literacy: PreK-4 (3 credits)—Prerequisite(s): Admission to teacher education. This course is designed to provide undergraduate and graduate students with a foundation for teaching reading and other literacy competencies to children in pre-kindergarten through grade four. Emphasis is on developing and understanding of the reading process and the teaching of reading. Strategies and protocols for effective reading and writing instruction are presented. (fall, spring, summer)

CUAI 5580 Enhanced Student Teaching for M. A. T. (9 credits)—Prerequisite: Completion of all methods courses and permission of advisor. Corequisite: Enrollment in CUAI 5400: Seminar in Issues, Problems, and Innovations in Education. This course provides a supervised student teaching experience at the elementary (K-8) or secondary level. (fall, spring)

CUAI 5606 Job Analysis and Curriculum Organization (3 credits)—An introduction to the systematic and orderly processes of identifying and organizing instructional materials for occupational training and curriculum development. Experience in writing job descriptions, preparing and performing analyses, and sequencing selected course content. (summer)

CUAI 5700 Portfolio Development (3 credits)—Prerequisite(s): Student should have completed a minimum of thirty (30) credit hours in the course prior to enrolling in the course or have permission of the instructor. Presents an overview of the portfolio as an authentic assessment to document the scholarship of teaching and learning. It introduces educators to use of artifacts/products/teacher work samples as evidence of effective teaching and expands to include student work samples as supportive evidence of that effectiveness.

CUAI 5747 Instructional Management in Industrial Education (3 credits)—The processes involved in developing a physical learning environment for teaching laboratory courses. Utilizing the teacher and the advisory committee in layout of facilities that reflect efficiency of use, safe working conditions, and industrial orientation. The same criteria will be applied in identifying co-op training stations in the community. (spring)

CUAI 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. (fall)

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

CUAI 5900 Independent Study (1-6 credits)

CUAI 5910 Assessment Techniques in the Classroom (3 credits)—An introduction to assessment at the classroom level. Overview of models for planning and implementing classroom assessment projects. Identification of effective classroom assessment techniques. Implementation, data collection, analysis and reporting of results, and classroom assessment projects. (spring, even years)

CUAI 5957 Topics in . . . (1-6 credits)—Prerequisite(s): Dependent on subject matter. Selected topics of current interest in curriculum and instruction. Offered upon sufficient demand for specific subject matter. May be repeated for different topics. Consultation with the instructor is recommended before enrollment. (as needed)

CUAI 5990 Readings and Research (1-6 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus MUST enroll for Readings and Research. Variable credits (1-3) of Readings and Research may also be used, as approved by student’s advisory committee in conjunction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Readings and Research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U).

Digital Media (DIGM)

DIGM 5146 Character Animation Graduate Laboratory (1 credit)—Experiments and practical exercises dealing with character animation, designed to reinforce and supplement concepts learned in Fundamentals of Character Animation. This lab is oriented specifically for the graduate student. Must be taken with DIGM 5147 Fundamentals of Character Animation.

DIGM 5147 Fundamentals of Character Animation (3 credits)—Prerequisite(s): DIGM 2870 or permission of instructor. 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. (Graduate students taking this course must also take DIGM 5146 Character Animation Graduate Laboratory.) (spring)

DIGM 5616 Raster-Based Imaging Graduate Laboratory (1 credit)—Experiments and practical exercises in raster-based imaging, designed to reinforce and supplement concepts learned in DIGM 5167. This lab is oriented specifically for the graduate student. Must be taken with DIGM 5617 Advanced Raster-Based Imaging. (spring)

DIGM 5617 Advanced Raster-Based Imaging (3 credits)—Prerequisite(s): DIGM 1650 or permission of instructor. Study of advanced raster-based digital imaging and processing. Areas of study will include advanced methods for manipulating and compositing 2D 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. (Graduate students taking this course must also take DIGM 5616 Raster-Based Imaging Graduate Laboratory.) (spring)

DIGM 5626 Motion Tools II Graduate Laboratory (1 credit)—This course must be taken with DIGM 5627 and will incorporate advanced-level laboratory exercises and explorations in digital video compositing. (fall)
DIGM 5627 Motion Tools II: Compositing (3 credits)—Prerequisite(s): DIGM 2900 or permission of instructor. This course covers techniques and theory concerning digital animation, motion graphics, and video. Students are expected to have some computer programming experience. Graduate students taking this course must also take DIGM 5646 Compositing Laboratory. (fall)

DIGM 5636 Interaction Graduate Laboratory (1 credit)—Experiments and practical exercises dealing with scripting and interface design for interactive product production, designed to reinforce and supplement concepts learned in Advanced Animation. This lab is oriented specifically for the graduate student. Must be taken with DIGM 5637 Advanced Interaction Design.

DIGM 5637 Advanced Interaction Design (3 credits)—Prerequisite(s): DIGM 4400 or permission of instructor. Scripting controls 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. Graduate students taking this course must also take DIGM 5636 Interaction Design Graduate Laboratory.

DIGM 5646 Animation Graduate Laboratory (1 credit)—Experiments and practical exercises dealing with techniques in 2D and 3D animation, designed to reinforce and supplement concepts learned in Advanced Animation. This lab is oriented specifically for the graduate student. Must be taken with DIGM 5647 Advanced Animation.

DIGM 5647 Advanced Animation (3 credits)—Prerequisite(s): DIGM 2870 or permission of instructor. This course will familiarize the student with techniques used to create fully functional Web applications keeping 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 the development practices with front-end design considerations. (Graduate students taking this course must also take DIGM 5646 Animation Graduate Laboratory.)

DIGM 5656 Advanced Web Design Graduate Laboratory (1 credit)—This course must be taken with DIGM 5657 and will incorporate advanced-level laboratory exercises and explorations in 3D modeling and lighting. (Graduate students taking this course must also take DIGM 5656 Advanced Web Design Graduate Laboratory.)

DIGM 5657 Advanced Web Design (3 credits)—Prerequisite(s): Digital Media Majors Only—DIGM 3000 or permission of instructor. Other Majors—DIGM 1650, DIGM 3200 or CSCI 1710, and CSCI 1800 or CSCI 1250, or permission of instructor. This course will familiarize the student with techniques used to create fully functional Web applications keeping 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 the development practices with front-end design considerations. (Graduate students taking this course must also take DIGM 5656 Web Design Graduate Laboratory.)

DIGM 5666 Product Design Graduate Laboratory (1 credit)—This course must be taken with DIGM 5667 and will incorporate advanced-level laboratory exercises and explorations in product visualization.

DIGM 5667 Advanced Product Design (3 credits)—Prerequisite(s): DIGM 3300 or permission of instructor. An exploration of the problems, principles, and processes involved in the digital modeling, development, and delivery of product design solutions for virtual and physical industries. In this course students will learn advanced techniques for rapid prototyping, surface evaluation techniques used to 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) as well as for the virtual (to model for marketing and interactive applications). Graduate students taking this course must also take DIGM 5666 Product Design Graduate Laboratory.

DIGM 5816 3D Effects Animation Graduate Laboratory (1 credit)—Experiments and practical exercises dealing with 3D special effects for animation, designed to reinforce and supplement concepts learned in 3D Effects Animation. This lab is oriented specifically for the graduate student. Must be taken with DIGM 5817 3D Effects Animation. (fall)

DIGM 5817 3D Effects Animation (3 credits)—Prerequisite(s): DIGM 3130 or permission of instructor. 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. (Graduate students taking this course must also take DIGM 5816 3D Effects Animation Graduate Laboratory.) (fall)

DIGM 5820 New Media Communication and Research (3 credits)—This course provides an overview of human communication factors and how they are applied to new media communications, with a particular emphasis on interactive multimedia. Topics for discussion and research will include usability and human-computer interaction (HCI), experience design, immersive environments, and the potential for new media to facilitate human communication. Research procedures will be used to determine the effectiveness of multimedia messages. (spring, even years)

DIGM 5821 Digital Media as an Art Form (4 credits)—An investigation into the historic and current applications of digital media as an art form. By studying the works of 20th and 21st century artists noted for their work in various digital and interactive media, and drawing from aesthetic criteria developed in class, students will produce interactive art projects, and participate in in-depth critical analyses of current digital works. Lecture and Laboratory.

DIGM 5826 Digital Video Graduate Laboratory (1 credit)—This course must be taken with DIGM 5827 and will incorporate advanced-level laboratory exercises and explorations in digital video production. (spring)

DIGM 5827 Motion Tools III: Application (3 credits)—Prerequisite(s): DIGM 2900 or permission of instructor. A study of the computer as a tool for acquiring, editing and compositing a wide range of source media into high resolution video programs. (Graduate students taking this course must also take DIGM 5826 Digital Video Graduate Laboratory.)

DIGM 5876 Modeling and Lighting Graduate Laboratory (1 credit)—This course must be taken with DIGM 5877 and will incorporate advanced-level laboratory exercises and explorations in 3D modeling and lighting. (Fall)

DIGM 5877 Advanced Animation Laboratory (3 credits)—Prerequisite(s): DIGM 3120 or permission of instructor. Topics include lighting effects, shadows, optimized rendering, and techniques for specification in all modeling paradigms. (Graduate students taking this course must also take DIGM 5876 Modeling & Lighting Graduate Laboratory.)

DIGM 5886 Technical Direction Graduate Laboratory (1 credit)—Experiments and practical exercises dealing with technical aspects of character animation, designed to reinforce and supplement concepts learned in Technical Direction for Animation. This lab is oriented specifically for the graduate student. Must be taken with DIGM 5887 Technical Direction for Animation. (spring)

DIGM 5887 Technical Direction for Animation (3 credits)—Prerequisite(s): DIGM 3130 or permission of instructor. 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 setup. Emphasis will be placed on character setup procedures and scripting workflow. (Graduate students taking this course must also take DIGM 5886 Technical Direction Graduate Laboratory.)

DIGM 5900 Independent Study in Digital Media (1-9 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 Digital Media graduate committee. Significant investigation and reporting required.

DIGM 5910 Experimental Media I (3 credits)—Prerequisite(s): Permission of Instructor: A digital art and experimental media studio and seminar course designed to support innovative research and production at the graduate level. This course will focus on investigation into new technologies in digital media, with research into current and new technological advances and on the creative application of those technologies. Students must have advanced-level technical skills in their area of interest.

DIGM 5915 Experimental Media II (3 credits)—Prerequisite(s): DIGM 5910 and Permission of instructor. A digital art and experimental media studio and seminar course designed to support continuing innovative research and production and/or new investigations. Students must have advanced level technical skills in their area of intended research.

DIGM 5957 Topics in Digital Media (2-4 credits)—Prerequisite(s): Independent upon subject matter. Selected topics of current interest in Digital Media. Offered upon sufficient demand for specific subject matter. May be repeated for different topics. Consultation with instructor recommended before enrollment. (fall, spring)

DIGM 5960 Thesis (3 credits)

DIGM 5970 Digital Media Research Project (3 credits)—Independent research and production of an original digital media production which is a synthesis of the knowledge and skills acquired throughout the Digital Media degree curriculum. This production is the culminating experience for the Digital Media graduate student following a comprehensive evaluation. The student’s performance shall be conducted by a committee of at least three faculty members to determine whether the student has achieved mastery of his or her discipline.

DIGM 5990 Readings and Research (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a thesis or culminating research project, MUST enroll for 3 credits of Readings and Research. Variable credits (1-3) of Readings and Research may also be used, as approved by student’s advisory committee in conjunction with other coursework, to receive credit for such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Grading of Readings and Research will be either satisfactory (S) or unsatisfactory (U), and credit will not be applied to meet program requirements.

Early Childhood (ECED)

ECED 5167 Constructivist Inquiry Approach to Science and Math for Young Children (3 credits)—Prerequisite: Admission to Teacher Education. Teacher candidates will explore developmentally appropriate methods based on constructivist theory for promoting scientific and mathematical inquiry among children in early childhood settings. A field experience in an EC classroom will ground the learner’s understanding. (fall, spring)

ECED 5210 Advanced Child Development (3 credits)—The theoretical basis of human behavior will be examined with an emphasis on child development. Content will focus on the cognitive, social/emotional, and physical development. Historical, philosophical, and societal factors that affect the development of children, birth to nine years of age will be investigated. (fall)
ECED 5257 Mentoring in Early Childhood Education (3 credits)—This course is designed to facilitate the development of early childhood professionals in effective mentoring. Core principles of mentoring adults who have varying levels of training. Emphasis will be placed on the role of the mentor as a facilitator for adult learning. As leaders, mentors will implement changes that lead to improved quality in programs and classrooms that serve young children, birth through nine. (spring)

ECED 5255 Constructivist Programs for Young Children (3 credits)—Programs will be implemented to promote the principles of constructivist practice as defined by the National Association for Young Children which endorses developmental emphasis on learning through emotional, cognitive, social, and physical interactions. Program models will be taught through case studies based on early childhood milestones, individual differences, and cultural influences. Various curriculum models will be studied. The Project Approach will be used as the framework for a field experience in an early childhood setting. Core principles of constructivist practice will be analyzed and used for assessing classrooms in the local area. (spring)

ECED 5330 History and Philosophy of Early Childhood Education (3 credits)—The history of early childhood education is examined using a holistic perspective that encompasses a global, contextually based approach. Theoretical and philosophical frameworks are analyzed as a basis for examining programs and classrooms that serve young children (birth to age nine). (fall)

ECED 5331 Infancy (3 credits)—Infant growth and development are explored using a variety of approaches that include and reflect differing theoretical views. Past and current research studies are used to understand factors that impact environments, relationships, and programs for infants. Field experiences are required. (summer)

ECED 5332 Designing Early Childhood Environments (3 credits)—Research studies provide the rationale for planning, designing, and creating appropriate environments for young children (birth to age nine). Factors are considered that influence space and materials for infants, toddlers, pre-schoolers, and primary age children. Emphasis is placed on early childhood facilities, classrooms, and playgrounds will be evaluated during the course. (summer; spring - odd years)

ECED 5333 Learning Processes of Infants and Young Children (3 credits)—Processes of thinking and learning used by infants and young children to understand their world will be examined using a variety of theoretical approaches supported by research studies. A global perspective will be used to contextualize learning that occurs in classrooms for infants, toddlers, preschoolers, and primary age children (birth to age nine). (summer 2010 and 2011)

ECED 5334 Social Development of Young Children (3 credits)—A variety of approaches will be used to understand how children develop socially and emotionally. Special emphasis will be placed on interpersonal relationships that occur within the context of group settings for young children (birth to age nine). (spring)

ECED 5335 Assessing and Evaluating Young Children (3 credits)—Major issues in assessing and evaluating young children (birth to age nine) are examined from a theoretical and research-based perspective. A selection of age appropriate assessment procedures will reflect an understanding of the child within the context of the family and community. Includes instruction and guided practice in the administration of standardized and criterion referenced tests. (fall)

ECED 5336 Advanced Creative Development (3 credits)—Strategies for promoting the emergent creative dispositions of young children (birth to age nine) are explored. Areas of focus include art, music, movement, play, dramatics, and problem-solving. The importance of understanding and encouraging the young child’s capacity for creative expression is emphasized. (spring)

ECED 5344 Family and Community Relationships (3 credits)—Research based models that enhance interpersonal relationships among adults who care for young children and their families and communities will be examined. Specific examples of best practices will include home visitation, conferences, advisory boards, family centers, and parents as teachers. (fall)

ECED 5345 Research in Early Childhood Education (3 credits)—Presentation and analysis of important research studies related to the development of young children. Recent research studies will be examined covering a range of current topics and issues. Criteria for evaluating and interpreting current research will be developed. An individual research project will be designed. (spring)

ECED 5347 Technology and Media in Inclusive Early Childhood Education (3 credits)—This course provides a comprehensive overview of media and technology use in inclusive early childhood classrooms. This course is based on the theories of Piaget, Vygotsky, and Papert, which support experimental, hands-on learning in the context of social interactions. Theories, research studies, and application of new technology and media will be considered. The appropriateness of technology use, along with application of new technology and media for children ages birth through age nine will be reviewed. (fall, spring; ECED 5210)

ECED 5352 Theories of Play (3 credits)—Play is examined from an interdisciplinary perspective that examines theories of play, creativity, play therapy, and cognition. The role of the adult, peer interaction, and play assessment are included. Applications in the field through assigned projects with young children are required. (summer)

ECED 5356 Language and Literacy Development of Young Children (3 credits)—Theories of acquisition, research, and programs of language enrichment relating to years zero-eight will be studied. Study in language delay, enhancement, individualization, and resource management will also be included. (fall)

ECED 5357 Management and Administration of Early Childhood Programs (3 credits)—Operational planning and administration for supervisors, administrators, and other professionals working with young children in public and non-public agencies. Emphasis is placed on the director’s role in staff recruitment, hiring, development, and evaluation. Leadership and management techniques are also studied and analyzed. (spring)

ECED 5417 Curriculum Development for Young Children (3 credits)—Prerequisites: ECED 4100, ECED 4410. Admission to Teacher Education Curriculum development analyzes children’s thinking as it influences curriculum design (lesson planning and unit development) in early childhood in the classrooms. Hands-on experiential activities will be emphasized to enhance the adult learners’ understanding of children’s development across social and cultural dimensions. Emphasis is placed on meeting the national and state standards for social studies education, while also providing concrete examples for application with young children. Field participation in early childhood settings is required. (fall, spring)

ECED 5517 Family-School-Community Relations (3 credits)—Theoretical models of home-school-community collaboration will be examined through the 20th/21st century. Strategies for initiating and maintaining effective home-school-community collaboration will be identified with special emphasis on benefits to parents, children, community, and school personnel. (fall, spring, summer)

ECED 5520 Programs for Young Children (3 credits)—Programs will be designed to reflect the most current thinking in terms of how young children think and learn. Theory-based program models will be examined as a basis for structuring daily experiences and activities. Field experiences are required.

ECED 5570 Practicum in Early Childhood Education (3 credits)—A supervised early childhood program experience as needed by the student. Options for the practicum include program director, supervisor, curriculum development, teacher trainer, or other early childhood professional roles. This experience requires 130 hours in an approved Pre-K and/or 1-3 grade sites. This field experience is also designed to meet the requirements for adding an EC endorsement to an existing license. (fall)

ECED 5580 Student Teaching and Seminar in Early Childhood Education (PreK-3) (9 credits)—A supervised student teaching experience in an approved early childhood program is combined with a seminar in EC&E for candidates seeking teacher licensure. This course provides opportunities for students to put theory into practice as they develop their own unique professional teaching style. Planning will be based on constructionist theory, current research, and developmentally appropriate guidelines as defined by NAECY. (fall, spring)

ECED 6100 Historical and Theoretical Basis for Early Childhood Education (3 credits)—This course provides an in-depth analysis of early childhood education from early historical time to the 21st century. Focus is on changing perceptions and expectations of family and young children, establishing the relationship between past perceptions, current practices, and the rebirth of persistent ideas. This course will include the study of theorists and educators who have influenced the field and shaped both past and current practices. (fall)

ECED 6200 Implications and Current Trends in Typical and Atypical Development of Young Children (3 credits)—Prerequisites: ECED 5210 and SPED 5500 or equivalent. Research and in-depth discussion of theory and practice related to the growth and development of young children with and without typical and atypical development. Emphasis will be on methods of studying behavior, implications of research for early childhood programs, blended practices, and current trends in serving children with diverse needs, ranging from children at-risk for school failure to children who demonstrate high levels of cognitive development. (fall)

ECED 6300 Social and Cultural Diversity in Children and their Families (3 credits)—Study of the research and theories related to social and cultural diversity in children and their families as well as practical applications for early childhood professionals working with diverse populations. This course will include self-reflection and personal analysis of bias and stereotypes and the dynamics of prejudice, discrimination, and oppression. (fall)

ECED 6400 Seminar in Professional Development and Leadership (3 credits)—Prerequisite: Completion of nine (9) semester hours of doctoral work in Early Childhood Education. Research and in-depth discussion of theory and practice related to obtaining extramural funding, conducting scholarly research, and publication of research- and practice-related articles in peer-reviewed journals will be studied. Emphasis will be on methods of researching and investigating potential sources of extramural funding through grant initiatives and private corporations, writing for and submitting to peer-reviewed journals, and developing skills in working as a collaborative team in the grant writing process. (spring)

ECED 6600 Processes of Language and Literacy Learning (3 credits)—This course will focus on the development and research related to early communication through language and literacy, as well as the sociocultural, political, and policy aspects of these topics. (fall)

ECED 6610 The Teaching and Learning Environment: Impact on Children, Families, and Teachers (3 credits)—Prerequisite: ECED 5210 or equivalent. This course will examine the environment and associated elements of design, arrangement, and layout, which influence young children, teachers, and their
families. Current research on environments will be reviewed and applied to early childhood education and classroom management. (fall)

ECED 6630 Paradigms of Inquiry-Based Constructivism (3 credits)—Prerequisites: ECED 6100 and ECED 6200. This course explores the application of constructivism in teacher development, the early childhood classroom, and research related to inquiry, with specific focus on early childhood education. The focus of this class will include critical thinking, research skills, as students gain skills and methods of interpreting scholarly literature. (spring)

ECED 6640 Critical Analysis of Brain Research and Creativity Theory (3 credits)—Prerequisite: ECED 5210 or equivalent. This course examines the tenets of brain research and creativity theories within the context of their applications to the field of early childhood research and practice. Focus will include strategies for pedagogy based on physiological foundations “brain-based” teaching and learning, applying creativity, as well as investigating the roles of “brain-based” learning strategies and constructivism in a variety of professions related to early childhood education. These settings include the early childhood classroom, teacher education, and teaching and learning in related professional venues (museums, education magazines, educational departments of organizations, etc.). (summer)

ECED 7000 Apprenticeship in Research (3 credits)—Faculty member oversees apprenticeship. Prerequisites: ELPA 7810, ELPA 7811, ELPA 7812, and ECED 7814. This required Research apprenticeship of at least 150 hours of field experience offers a collaborative apprenticeship for early childhood students to learn the skills necessary to plan, implement, and conduct research. The research apprenticeship provides opportunities for application of the research process in collaboration with a faculty member who will provide guidance. (fall, spring, summer)

ECED 7001 Apprenticeship in University Teaching (3 credits)—Prerequisite: Completion of nine to twelve (9-12) semester hours of doctoral work in Early Childhood Education or University Teaching Apprenticeship of at least 75 hours of field experience includes a mentored experience for the student in teaching a university-level course in early childhood education. Extensive work in the university classroom and reflection under the direction of a practicing faculty member from the department is required. (fall, spring, summer)

ECED 7002 Apprenticeship in Development of Teachers (3 credits)—Prerequisite: ECED 6100. The Development of Teachers Apprenticeship of at least 150 hours of field experience requires the doctoral student to participate in the development, implementation, and evaluation of training for early childhood teachers who are currently working in the field. The training will be specifically designed for teachers working with children from birth to age eight and developed in collaboration with a mentor who has experience in effectively working with adult learners. (spring, summer)

ECED 7003 Apprenticeship in Early Intervention (3 credits)—Prerequisite: ECED 6200. The Early Intervention apprenticeship of at least 150 hours of field experience requires the doctoral student to work hands-on with a service coordinator or early interventionist in a setting that serves children birth to age three with developmental disabilities and their families. The student will assist with family programming, helping with on-going assessment and Individual Family Service Plan (IFSP) development, and provide home-based developmentally appropriate individual activities for the child. (spring, summer)

ECED 7004 Apprenticeship in Early Childhood Leadership (3 credits)—Prerequisite: ECED 6620. The Early Childhood Leadership Apprenticeship of at least 150 hours of field experience requires the doctoral student to experience an early childhood leadership role with a principal of a Pre-K-3 or Pre-K-S school, a museum director, a director of an NAEC-accredited early childhood center, a Pre-K coordinator, a leader in a professional early childhood organization, or a leader in a community-based organization that provides services or advocacy for young children birth to 8 years of age. (fall, spring, summer)

ECED 7814 Analysis and Interpretation of Research Designs (3 credits)—Prerequisites: ELPA 7810, ELPA 7811, and ELPA 7812. This course explores the philosophy, logic, methods, research designs, and data analysis approaches of applied research in child development and learning. The course will discuss the scientific logic (e.g., inductive and deductive logic, the role of theory in research) of research methods and designs, including a discussion of how to develop research questions and hypotheses with particular emphasis on those questions dealing with applied research in child development and learning in both typical and atypical populations. (fall, spring)

ECED 7950 Advanced Research in Early Childhood Education and Seminar (3 credits)—Prerequisites: ELPA 7810, ELPA 7811, and ELPA 7812. This is a research-oriented course that focuses on early childhood education. The course is a study of early research and the application of research to early childhood theory and practice. During this course, students will write a research proposal that is pre-prospectus related to their dissertation topic. The seminar aspect of this course will involve the student’s attendance at prospectus and/or dissertation presentations of doctoral students. (fall beginning 2010)

ECED 7960 Dissertation (3-credits)—Prerequisite: Permission of instructor. Supervised research toward dissertation (repeatable up to 12 hours) (fall and spring)

ECON 5000 Essentials of Economics (3 credits)—An accelerated course dealing with fundamentals of economic theory. Designed for graduate students with limited or no background in economics.

ECON 5010 Essentials of Statistics (3 credits)—Prerequisite(s): MATH 1022 and 1032 or equivalents. This accelerated course is designed for students entering the M.B. or M.Acc. program without recent academic credits in statistics. The course covers basic descriptive statistics and provides a comprehensive introduction to inferential statistics, including estimation and hypothesis testing.

ECON 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 5327 Labor Economics (3 credits)—Prerequisite(s): ECON 2210 and 2220. Theoretical and real world operations of labor markets. Labor relations systems in the United States, Europe, and Japan including the role of labor unions. Major issues in labor relations such as labor law reform, wage inequality, and employment discrimination.

ECON 5337 Government Finance and Public Choice (3 credits)—Prerequisite(s): ECON 2210 or ECON 2220. The economic functions of government in a market-oriented economy; how governments allocate expenditures according to the principles of welfare that comprise society, and how governments raise money to finance their expenditures.

ECON 5447 Urban and Regional Economics (3 credits)—Prerequisite(s): ECON 2210 and 2220. An examination of the theories of urban and regional economic growth and development.

ECON 5457 International Organization and Regulation (3 credits)—Prerequisite(s): ECON 2210 and 2220. An overview of the structure and performance of the U.S. economy. Review and evaluation of public policies adopted to improve economic performance, such as antitrust and public utility regulation. Current issues include competitiveness, deregulation, high-technology, and foreign competition.

ECON 5510 Current Social and Economic Issues (3 credits)—Prerequisite(s): ECON 5110 and 5240. A description and analysis of present-day socioeconomic problems, programs, and policies.

ECON 5527 International Economics (3 credits)—Prerequisite(s): ECON 2210 and 2220. Economic specialization and international trade and investment. The growth of the global economy and economic integration. The gains and losses to consumers and producers. Government policies to promote and/or restrict international business activities. Role and operation of the international financial system. The rise of multinational companies and global markets.

ECON 5900 Independent Study in Economics (1-3 credits)—A course designed for graduate 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 5957 Topics in Economics (1-6 credits)

Education Foundations (EDFN)

EDFN 5000 History and Philosophy of Education (3 credits)—Study of the historical and philosophical foundations of education with emphasis on how major theories and historical events have influenced education in public schools of today.

EDFN 5010 Interdisciplinary Seminar (1 credit, may be repeated for a total of 3 credits credit)—This course is required of all M. Ed. candidates in the College of Education. Current topics pertaining to the profession of education will be presented by local, state, regional, and national authorities. Issues that directly impact education such as political, economic, legal, sociological, health, and psychological will be discussed. (fall, spring)

EDFN 5050 Social and Political Influences on Schools (3 credits)—Students will analyze the social and political contexts surrounding schools with emphasis on increasing diversity and multiculturalism within schools. The impact of local, regional, national, and global contexts will be studied. Particular emphasis will be given to the philosophical and cultural influences that shape thinking about schooling and how these influences impact on informal and formal leadership roles in the school.

EDFN 5400 Current Issues in Education Seminar (3 credits)—Corequisite(s): Enrollment in CUAI 5580. The course is designed for the Master of Arts in teaching program taught in conjunction with student teaching. Contemporary issues
and problems confronted by public school teachers are analyzed by the students. Current innovations are studied as they develop. (fall, spring)

EDFN 5400 Professional Development (1 credit)—This course focuses on the concept of lifelong learning in the organization and the politics of education. (fall, summer)

ELPA 6020 Seminar in Educational Supervision (3 credits)—An examination of problems and issues in supervision. Emphasizes evolving concepts of supervision and strategies and practices of promoting instructional change.

EDFN 6030 Instructional Leadership (3 credits)—An examination of major areas of curriculum study. Emphasizes current trends in curriculum development and implementation.

ELPA 6220 Specialist Seminar (1 credit)—Prerequisite(s): ELPA 6450, 6954, 6955, CUAI 5215, 5216, 6452. This seminar is offered only during the period of residency with the approval of the student’s advanced graduate advisory committee chair. The seminar provides students with the opportunity to complete and present the results of their culminating project for the Ed.S. degree.

ELPA 6450 Leadership Studies (3 credits)—The purpose of this seminar is to develop a more in-depth understanding of theory and research related to the study of leadership. Although there will be a brief review of traditional theories from traditional approaches (trait, behavioral, etc.) through contemporary approaches (situational, transformational, symbolic, etc.), the focus of this class is on “cutting-edge” ideas. Students are strongly encouraged to explore nontraditional approaches to thinking about how leadership can be conceptualized, explored, and understood, as well as to develop their ideas to current models. Emphasis will be given to student-initiated exploration of themes which underlie leadership. (fall, spring)

ELPA 6451 Strategic Planning and School-Based Decision-Making (3 credits)—An examination of the theory behind strategic planning and school-based management and an examination of the implementation of the concepts in a school setting.

ELPA 6452 Effective Organizational Cultures (3 credits)—Prerequisite(s): ELPA 6450 or permission of instructor. Students will study the elements that contribute to the development of effective organizational. The course will focus on the critical importance of leadership in creating organizational cultures and will stress the importance of developing a shared vision within the organization. Students will learn strategies for developing organizational cultures that promote reflection, action, and the continuous improvement of performance.

ELPA 6453 Ethics for Educational Leaders (3 credits)—The purpose of this course is to develop a more in-depth understanding of ethical theories and ideas relevant to the educational leader. The course provides an opportunity for self-examination of personal views, beliefs and values and the impact of those thoughts on personal leadership development. The course provides a historical perspective to the development of ethical thought, the evolution of ethical thinking through the centuries, and consideration of current ethical decision-making and dilemmas for leaders. The course qualifies as a guided elective in Educational Leadership for doctoral students in all concentrations except the administrative endorsement. (fall)

ELPA 6555 Reflective Practice I (3 credits)—Corequisite(s): CUAI 5215. This course involves fieldwork under the guidance of a mentor who has achieved certification from the National Board for Professional Teaching Standards. The mentor and student will collaboratively plan and implement a plan of professional development that will lead to the development of the NBPTS portfolio. Much of the collaborative work will occur at the school of the student. The mentor and student will be held. A secondary focus of the course will be on the mentoring process and the essential elements in an effective mentor/student relationship.

ELPA 6556 Reflective Practice II (3 credits)—Prerequisite(s): CUAI 5215 and ELPA 6555; Corequisite(s): CUAI 5216. This is a continuation of ELPA 6555, involves work under the guidance of a mentor who has achieved certification from the National Board for Professional Teaching Standards. The mentor and student will continue to implement a plan of professional development that will lead to the development of the NBPTS portfolio. Much of the collaborative work will occur in the school of the student, although periodic seminars will be held. Students will present their portfolios to their colleagues and complete practice assessments that parallel the National Board Certification Process. Additional emphasis will be given to the role of mentoring in fostering school-based professional development.

ELPA 6558 Innovative Practices in Classroom Leadership (3 credits)—This seminar is designed to acquaint students with innovative practices related to leadership in schools that promote classroom instruction. Class sessions will include participation of innovative teacher-leaders from different school systems. The topics for this seminar will change from semester to semester but will include topics of current relevance to classroom teachers. (fall)

ELPA 6680 Small Group Leadership (3 credits)—Through activities in this course students will explore their leadership skills specifically related to forming compatible, achieving groups capable of completing tasks to complement the organizational vision. Students will examine the classic and contemporary literature on topics affecting groups such as conflict, collaboration, negotiation, power issues, decision-making, coalitions, and media relations.

ELPA 6651 Organization Development (3 credits)—The principal purpose of this seminar is to show the process by which planned change occurs in educational organizations through the application of behavioral science knowledge. The focus

Educational Leadership and Policy Analysis (ELPA)

ELPA 5100/6100 Interpersonal Relations (6 credits)—A course integrating the various dimensions of interpersonal education into the school leader’s repertoire. Student’s skills in collecting and managing the flow of information, motivating others, becoming sensitive to human needs and concerns, and communicating effectively in both oral and written modalities will be refined within the context of coursework.

ELPA 5200/6200 Emerging Perspectives Influencing the School (6 credits)—Prerequisite(s): ELPA 5100 or 6100. Course will critically analyze philosophic and cultural issues reflective of the local, regional, national, and global social contexts of which the schools are a part. Students will learn legal and regulatory applications of school reform and leadership, planning, development, and implementation will be examined as a logical outgrowth of environmental influences on schools.

ELPA 5300/6300 Professional Needs of Individuals and Groups (6 credits)—Prerequisite(s): ELPA 5100/5200 or 6100/6200. Course increases student knowledge of measurement and evaluation of school outcomes; student guidance and development; adult learner development and learning patterns; foundations of the field of continuing professional development.

ELPA 5400/6400 Developing Learners Through Instructional Leadership (6 credits)—Prerequisite(s): ELPA 5100, 5200, 5300, or 6100, 6200, 6300. Course will address skills and competencies necessary for formulating goals with individuals or groups; planning for organizational change; planning and scheduling resource allocation and utilization; planning, developing, and implementing instructional programs, and assessing school curricula within a changing environment.

ELPA 5500/6500 Implementation Strategies: Making It Happen (6 credits)—Prerequisite(s): ELPA 5100, 5200, 5300, 5400 or 6100, 6200, 6300, 6400. Course will approach problem resolution as logical outgrowth of problem analysis, judgment formulation, plan implementation, task delegation, and resource management. Students will learn how to facilitate sound decision-making within the entire school community.

ELPA 5600/6600 Shaping the Quality and Character of the Institution (6 credits)—Prerequisite(s): ELPA 5100, 5200, 5300, 5400, 5500 or 6100, 6200, 6300, 6400. Course will focus on relationships between public policy and education; recognizing policy issues; and relating policy initiatives to student welfare. Students will develop an understanding of the importance of sound planning in maintaining school, community, and media relations.

ELPA 6010 Leadership for Lifelong Learning (3 credits)—This seminar focuses on current practices in educational leadership as they relate to the organization and administration of educational programs serving diverse populations. Particular emphasis is placed on the role of the educational leader in promoting the concept of lifelong learning in the organization and the politics of education. (fall, summer)
ELPA 6583 The Adult Learner (3 credits)—This course is designed to acquaint students with the development of adult learning and education in this country and the resulting social, political, and economic implications. Students analyze theory, research, and practice as a basis for improving the learning environments of formal and nonformal adult education programs. (fall)

ELPA 6581 Internship in Educational Leadership (3 credits)—This course involves fieldwork under the direction of a practicing organizational leader. The supervisor becomes familiar with the daily operations of the supervising program, serves as a liaison between the university and professionals at the placement site. (fall, spring, summer)

ELPA 6720 Supervisory Techniques (3 credits)—A basic course for special and general supervisors and supervising principals with emphasis on a multidimensional approach to supervision. Related application of theory to practice.

ELPA 6810 Theories of Administration (3 credits)—Includes the history and development of major administrative theories. Emphasizes the use of these theories in administering an organization. (spring, summer)

ELPA 6820 Law for Organizational Leaders (3 credits)—Includes history of legal provisions for public education in the United States and school legislation in Tennessee. In a seminar setting, the class identifies and analyzes trends in legislation, case law, precedent, and interpretation as these factors influence and are influenced by the changing role of education in modern life. Emphasizes, but is not limited to, the school law of Tennessee and neighboring states. (summer)

ELPA 6870 School Law and Transportation (3 credits)—Emphasis on planning, financing, and utilizing the school plant. Consideration is given to forms and surfaces, flexibility, machines and furniture, and equipment. Operation and administration of transportation are included.

ELPA 6841 School Finance and Business Methods (3 credits)—Federal, state, and local financial aid and the development of educational opportunity; sources of school revenue; school budgets; and business methods of accounting are included.

ELPA 6861 Human Resource Management (3 credits)—Course deals with human resource problems of staff and students from the administrator's point of view: records, test score use, assignment, recruitment, professional negotiations, insurance, fringe benefits, guidance programs, etc.

ELPA 6870 Field Research in Educational Leadership (3 credits)—Prerequisite(s): EDFN 5950 or equivalent. Students will take an active part in the collection and analysis of data. Students will also take an active part in the writing of research reports and dissemination of findings. Students should check with the instructor prior to enrolling in this course.

ELPA 6872 Technology Applications for Educational Leaders (3 credits)—The course is designed to provide the student with state-of-the-art knowledge of computer technology related to administration, research, statistics, peripheral interfaces, personal productivity, and basic programming in administration and management. (fall, spring, summer)

ELPA 6874 Current Issues in Distance Education (3 credits)—This Internet-based course covers a variety of current issues in distance education, including: teaching and learning theory; faculty concerns; curriculum; technical delivery systems; organization and administration; copyright regulations; student profiles and reactions; and consortial efforts to deliver distance education programs.

ELPA 6901 Independent Study in Educational Administration (1-3 credits)—This course provides for independent study under the direction of an appropriate faculty member. Significant research required.

ELPA 6902 Independent Study in Educational Supervision (1-3 credits)—This course provides for independent study under the direction of an appropriate faculty member. Significant research required.

ELPA 6903 Independent Study in Curriculum Development (1-3 credits)—This course provides for independent study under the direction of an appropriate faculty member. Significant research required.

ELPA 6904 Independent Study in Personnel and Guidance (1-3 credits)—This course provides for independent study under the direction of an appropriate faculty member. Significant research required.

ELPA 6908 Independent Study in the Administration of Higher Education (1-3 credits)—This course provides for independent study under the direction of an appropriate faculty member. Significant research required.

ELPA 6951 Seminar in Research Analysis and Interpretation (3 credits)—Prerequisite(s): EDFN 5950 or equivalent. This seminar provides a forum for discussion of current research relevant to educational leaders. Students will learn the principles of research interpretation; and evaluation of the current literature and will concurrently learn to conduct appropriate analyses of research data using computer technology.

ELPA 6952 Action Research (3 credits)—Prerequisite(s): EDFN 5950 or equivalent. This course introduces the concepts and methods of action research. Action research is a professional development activity that helps teachers to identify and solve problems of importance in the classroom. Action research is approached as a professional development activity that allows teachers to discover the complexities in teaching and offers suggestions for improving learning. (fall, spring)

ELPA 6953 Policy Analysis (3 credits)—The purpose of this course is to develop an understanding of the process by which policy is formulated, analyzed, implemented, and evaluated. Students will be on such cases written by policy analysts in and out of government. The methodological issues and techniques used to accommodate the major social, economic political, and behavioral aspects of policy analysis in an organizational context will be discussed. (fall)

ELPA 6954 Educational Program Evaluation (3 credits)—Prerequisite(s): EDFN 5950 or equivalent. This course prepares students as critical, reflective evaluators of educational programs. Students are provided an introduction to the many activities associated with development, implementation, and assessment of educational programs and subsequently develops students' capacities for evaluation methodology and design by formulating and implementing an evaluation plan for an existing educational program. Students present their evaluation plans and outcomes during class for critical analysis and assessment.

ELPA 6955 Grant and Proposal Development (3 credits)—This course examines the possibilities for additional funding through grant development. Students use newsletters, foundation and government publications, as well as the Internet, to locate sources of funding. Interviews are conducted with persons who have had previous success in receiving grant funding. The course also emphasizes refinement of writing skills, development of an organizational vision, goal-setting, political realities, and public relations techniques. Budget development with software options as well as audit protocol will also be explored. Presentation and team-building skills are another critical dimension to successful grant funding and implementation. (spring, summer)

ELPA 7110 Community College Leadership in the United States (3 credits)—This course emphasizes the history, philosophy, and contemporary nature of community colleges in terms of organization and administration, students, faculty, curriculum and instruction, and finance, and issues and trends.

ELPA 7220 Supervising Community College Curriculum Planning (3 credits)—This course covers the planning process of community colleges and involves a study of the relationship between secondary curriculum and community college curriculum; considers trends in curriculum development of reform, materials of instruction, and supervision at the community college level.

ELPA 7810 Educational Statistics (3 credits)—This course emphasizes statistical use in educational research: measures of central tendency, variation, rank, and correlation; the normal curve and probability; testing differences between means; analysis of variance; and nonparametric procedures. (fall, spring)

ELPA 7811 Quantitative Research (3 credits)—Prerequisite(s): ELPA 7810 and EDFN 5950 or equivalent. Students will build on the fourth research and statistics and introduces multivariate statistical techniques commonly used in educational research. It develops skills in parametric and nonparametric analysis, survey design and scale construction, database development and management, and the use of statistical analysis packages. (spring, summer)

ELPA 7812 Qualitative Research (3 credits)—Prerequisite(s): EDFN 5950 (or equivalents). This course provides an introduction to the qualitative research process. Qualitative research is examined in this course through 1) reading 2) personal reflection, and 3) inquiry activities. The basic concepts and methods of qualitative research are studied through collaborative, constructivist activities. The qualitative research process as a series of ongoing and overlapping activities. Topics include the identification of the assumptions that support the qualitative research, the identification of research questions, the use of theory in the research process, participant selection, methods of data collection, data analysis strategies and tools (including the use of microcomputers), and the reporting of results. (fall, spring, summer)

ELPA 7813 Research in Educational Leadership (3 credits)—Prerequisite(s): ELPA 7810 and EDFN 5950, and ELPA 7811 or 7812 (or equivalents). This course is designed to strengthen knowledge and skills necessary to conduct, understand, evaluate, and utilize advanced research in the field of educational leadership. It provides a forum for students to engage in critical thinking and reflection as they begin working on their dissertation prospectus. (fall, spring, summer)

ELPA 7814 Advanced Qualitative Research (3 credits)—Prerequisite: ELPA 7812. This course is designed to build on the introductory knowledge of ELPA 7812, Qualitative Research, with an in-depth examination of the five traditions of qualitative inquiry; those traditions are biography, ethnography, phenomenology, case study, and grounded theory. (spring)

ELPA 7820 Administration of Higher Education (3 credits)—This course emphasizes the administration, financial support, staffing, community relations, and program development in higher education; includes objectives and trends in American higher education, organizational patterns, and community colleges. (fall)

ELPA 7822 Higher Education Law (3 credits)—This course provides an examination of the legal issues that impact and influence American higher education. The objective of this course is to provide students with an overview of the subject areas of law most relevant to higher education and to introduce students to methods of legal analysis and decision-making. The course will emphasize the legal environment of postsecondary institutions, legal processes, analysis, and problem-solving in the areas of colleges and universities. (spring)

ELPA 7823 Higher Education Finance (3 credits)—This course provides students with an overview of the financial management of two-year and four-year colleges and universities. Students learn about the financial reporting, budgeting, and asset management processes for higher education institutions. Additionally,
students examine contemporary funding issues for public and private postsecondary institutions. (spring)

ELPA 7960 Doctoral Dissertation (1-12 credits)—By arrangement with student’s graduate committee. (fall, spring, summer)

ELPA 7990 Readings and Research (1-3 credits)—This is a course that is required of all students who have completed the number of credits of Dissertation (7960) specified in their program of study but have not completed the dissertation and MUST be taken each semester (three credits) until the dissertation is approved. Additionally, students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus, thesis, or dissertation MUST enroll for three credits of Readings and Research. Variable credits (1-3) of Readings and Research may also be used, as approved by the student’s advisory committee in conjunction with other coursework, to receive credit for such activities as preparation of designated papers or development of research and scholarly skills that would not be appropriately covered by other types of independent study. Grading of Readings and Research will be either satisfactory (S) or unsatisfactory (U). (fall, spring, summer)

**English (ENG)**

ENGL 5017 Children’s Literature (3 credits)—History, genres, methods of presentation: emphasis on sources of criticism and bibliography.

ENGL 5019 Supervised Experience in Teaching (1-3 credits)—Practicum for Teaching Assistants.

ENGL 5020 Medieval Literature (3 credits)—Study of significant works from British medieval literature, often including works by the Gawain Poet and Chaucer.

ENGL 5029 Supervised Experience in Research (1-3 credit)—For Graduate Assistants with research assignments.

ENGL 5039 Supervised Experience in Administration (1-3 credit)—For Graduate Assistants with administrative assignments.

ENGL 5047 African-American Literature I (3 credits)—Focus on central issues addressed by African-American Literature, with emphasis on such topics as “The Harlem Renaissance,” African-American Autobiography and Bildungsroman.

ENGL 5057 Writing: Theory and Teaching (3 credits)—An examination of current theory and research in composition and pedagogical techniques.

ENGL 5060 Literature of Southern Appalachia (3 credits)—Selected writings of outstanding regional authors.

ENGL 5077 Literature for Adolescents (3 credits)—Wide reading, evaluation and selection of literature appropriate for persons from age 12 to 18.

ENGL 5087 Themes in Women’s Literature (3 credits)—Studies of themes and issues affecting women as portrayed in selected fiction, poetry and drama.

ENGL 5117 Grammar and Usage (3 credits)—Study of practical aspects of English syntax, semantics, and usage. Emphasis on the teaching of grammar and usage for those seeking teacher certification.

ENGL 5137 Dialektology (3 credits)—Prerequisite(s): Either ENGL 3100 or 4120. Study of regional and social language variation, including dialect geography and sociolinguistics. Emphasis on linguistic features of Appalachian dialects.

ENGL 5150 Sound Systems of English (3 credits) — Study of the sound systems of English and how they compare to the sounds and sound patterns of other languages.

ENGL 5160 Renaissance Literature (3 credits)—Study of major writers—poets, dramatists, essayists—of the British Renaissance.

ENGL 5170 Teaching English as a Second Language (3 credits)—Teaching ESL is designed to introduce graduate students to the theory and practice of teaching English to speakers of other languages.

ENGL 5180 Internship in Teaching English as a Second Language (3 credits)—This course gives students the opportunity to apply principles and techniques of teaching English as a second language from previous coursework to actual ESL classroom settings. This satisfies a portion of the requirement for an “add-on” endorsement in ESL.

ENGL 5190 Second Language Acquisition (3 credits)—This course equips students to think critically about assumptions, research, and ideology in second language acquisition. We consider the learning processes of second language learners and the way this theory fits into teaching philosophy and methodology.

ENGL 5200 Restoration and 18th Century (3 credits)—Study of Restoration and 18th-century British literature, with attention to development of drama, poetry, and prose in a cultural and historical context.

ENGL 5207 Literature of the South (3 credits)—Significant works of writers of the American South.

ENGL 5217 Irish/Scottish Literature (3 credits)—Study of major writers in Irish and Scottish literature with attention to folklore and culture.

ENGL 5250 18th-Century British Novel (3 credits)—Study of major novels of the long 18th century, usually including Behn, Defoe, Richardson, Fielding, Austen and others.

ENGL 5300 Romantic Literature (3 credits)—Study of major writers of British Romanticism, usually including Wordsworth, Scott, and de Quincey among other poets, novelists, and essayists.

ENGL 5350 Victorian Literature (3 credits)—Study of major writers during the Victorian period.

ENGL 5400 19th-Century British Novel (3 credits)—Study of major 19th-century British novelists, usually including Austen, Dickens, Eliot, among others.

ENGL 5417 Teaching English in High School (3 credits)—Instruction in the methods and materials to be used by English teachers in middle and high school. Offered during fall. Counts as professional education credit.

ENGL 5420 20th-Century British Literature (3 credits)—Study of range of British literature during the 20th century, including works from significant poets, novelists, and critics. May be repeated when topic changes.

ENGL 5440 20th-Century British Novel (3 credits)—Study of representative British novelists of the 20th century, usually including Lawrence, Joyce and Woolf.

ENGL 5450 Colonial and Federal American Literature (3 credits)—Readings in important colonial and federal texts, including diaries, sermons, political tracts, and fine literature by poets such as Bradford and Taylor.


ENGL 5507 Literature in Film (3 credits)—Film adaptations of significant literary works.

ENGL 5550 19th-Century American Fiction (3 credits)—Study of major novelists and short story writers during this period.

ENGL 5560 20th-Century American Poetry (3 credits)—In-depth study of major 20th-century American poets.

ENGL 5565 20th-Century American Fiction (3 credits)—Representative American novels and short fiction since 1900.

ENGL 5570 Seminar in Folklore (3 credits)—In-depth study of folklore theory, methodology, and a selected genre or topic, such as oral narrative, material culture, occupational lore, etc. Includes fieldwork. May be repeated when topic changes.

ENGL 5580 Seminar in Linguistics (3 credits)—Selected areas of linguistics. May be repeated when topic changes.

ENGL 5730 Seminar in British Literature (3 credits)—Seminars in selected British authors, both major and minor, and in related subject matter. May be repeated when topic changes.

ENGL 5750 Seminar in American Literature I (3 credits)—Seminars in selected American authors, both major and minor, and in related subject matter. May be repeated when topic changes.

ENGL 5800 Seminar in Continental Literature (3 credits)—Seminars in European authors other than British, and in related subject matter. May be repeated when topic changes.

ENGL 5850 Studies in Modern Drama (3 credits)—Study of major playwrights and movements in theatre beginning in the 1870s and ending with contemporaries.

ENGL 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 5907 Creative Writing II: Fiction (3 credits)—Prerequisite(s): ENGL 3411 or permission of the instructor. Advanced course in writing of fiction. Considerable attention to craft and form of stories written by acknowledged masters of the genre.

ENGL 5910 Independent Studies (1-3 credits)—Directed study in an area not provided for in course offerings, for which the student has special interest and adequate preparation. By permission of the Graduate Director. Open only to majors and minors.

ENGL 5917 Creative Writing II: Poetry (3 credits)—Prerequisite(s): ENGL 3411 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 5935 Seminar in Professional Writing (3 credits)—An advanced course on expository writing with emphasis on professional applications, heuristics, and methods of research and communication using electronic technology.

ENGL 5940 Seminar in Creative Writing (3 credits)—Specialized instruction individually adapted to the student’s creative strengths and interest. By permission of the instructor.

ENGL 5950 Methods of Research (Required) (3 credits)—Required for graduate majors and minors in English. Special emphasis in research methods in literature, language, and English education.

ENGL 5957 Special Topics in English (1-6 credits)—Selected topics in the discipline. Can be repeated for credit when content changes.

ENGL 5960 Thesis in English (Required) (1-3 credits)—The student must have made application for candidacy and have completed appointment of an advisory committee. By permission of the Graduate Director.

ENGL 5990 Readings and Research (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus MLST enroll for Readings and Research. Variable credits (1-3) of Readings and Research may also be used, as approved by student’s advisory committee in conjunction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Readings and Research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U).
ENGL 5989 Internship/Cooperative Education (1-3 credits)—Students must clear arrangement for this course through the Cooperative Education Office prior to registration. Business industries and government agencies provide opportunities for planned and supervised work assignments. Students may alternate between periods (usually two semesters) of full-time study and employment with a cooperative education employer. Credit received carries full academic value, and students receive compensation as full-time employees.

**Technology (ENTC)**

**ENTC 5010 Modern Industry (3 credits)—**The development and significance of current scientific technology. Types of industries, trends, and systems of organization. A study of specific examples. The science of appropriate action applied to production. (fall)

**ENTC 5017 Industrial Supervision (3 credits)—**Behavioral studies related to supervision. Supervisory functions, motivation, interviewing, and personal advancement. Lecture, case studies, discussions, and reports.

**ENTC 5020 Industrial Management (3 credits)—**An examination of current management practices as applied in manufacturing industries. Particular attention will be directed toward the study of the manager’s role as it affects quality.

**ENTC 5030 Investigation in Technology (3 credits)—**Elements and critical abilities involved in production problem-solving. Investigation of the literature with special reference to research studies pertaining to job problems experienced by participants. Each student will select a problem for study and present the findings to the group.

**ENTC 5037 Quality Assurance (3 credits)—**Prerequisite(s): MATH 1530. Objective methods for manufacturing control charts for attributes, control charts for variables, 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 5047 Quality Assurance II (3 credits)—**Prerequisite(s): TECH 4037. Process control charting including control charts for attributes, sequential sampling, and lot acceptance sampling for variables. MIL STD 414. Reliability testing, failure rate of a population, bathtub curve, and series/parallel math modeling for reliability. Lecture.

**ENTC 5050 Leading Continuing Improvement (3 credits)—**Prerequisite(s): ENTC 5950 and graduate standing. A study of the skills and knowledge necessary for business and industry to enhance competitiveness in the global arena. Focus on customer driven quality and strategic implementation. Lecture with emphasis on teamwork, team exercises, and presentation. (summer, odd years)

**ENTC 5060 Scheduling for Project and Quality Management (3 credits)—**Prerequisite(s): 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 5070 Leading Empowered Problem Solving Teams (3 credits)—**Prerequisite(s): Graduate standing. A course designed to provide graduate students with practical, hands-on experience enhancing their ability to work together solving complex business and technical problems as a cohesive team. Lecture, discussion, teamwork, and presentation. (summer, even years)

**ENTC/BADM 5170 Strategic Management of Technology and Innovation (3 credits)—**This course applies the concepts of strategic management within a rapidly changing, technological environment. An emphasis will be placed on how organizations can引进 innovative technologies to develop competitive advantages. Specifically, the use of information technology and its role in the strategic management process will be addressed. (fall, odd years)

**ENTC 5217 Tool Design (4 credits)—**Prerequisite(s): ENTC 2200 and 2170. A study of the design concepts for industrial tooling including stamping dies and molds. Materials selection, heat treatment specifications, off-the-shelf tooling components, and make/buy decisions. Utilization of CADD facilities to execute designs. Lecture and laboratory.

**ENTC 5227 Engineering Economy (3 credits)—**Prerequisite(s): MATH 1720 sequence or permission of the instructor. An economic study of manufacturing, amortization, cash flow, rates of return, depreciation, and present worth analysis. Lecture.

**ENTC 5237 Ergonomics and Process Optimization (4 credits)—**A study of methods used to improve production, set time standards, and analyze productivity. Lecture and laboratory.

**ENTC 5247 Industrial Operations Analysis (3 credits)—**Deterministic models including linear programming, quality, transportation, network analysis, game theory, and inventory theory. Lecture.

**ENTC 5257 Plant Layout & Materials Handling (3 credits)—**Principles of plant layout, process flow, automation, machine location, auxiliary services, safety, and personnel organization. Materials handling methods and case studies emphasized. Lecture.

**ENTC 5277 Process Control and Instrumentation (4 credits)—**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. Lecture and laboratory.

**ENTC 5287 Introduction to Robotics (3 credits)—**Prerequisite(s): One computer science course. Theory, fundamental concepts, and applications of robotics and computer-aided manufacturing. Topics examined include actuators and manipulators, programmable systems, vision systems, safety, robotic work cells, applications, and economic analysis. Lecture and laboratory. (spring, even years)

**ENTC 5307 Telecommunications (4 credits)—**Prerequisite(s): ENTC 4310. Analysis of contemporary computer systems emphasizing digital modulation and demodulation schemes and performance analysis techniques in the presence of noise.

**ENTC 5337 Microprocessors (4 credits)—**Prerequisite(s): ENTC 3370. Introduction to microprocessors. A course developed around using an 8085 microprocessor. Topics include microcomputer programming, the 8085 instruction set, breadboarding circuits, device selection, and introduction to interfacing. Lecture and laboratory. (fall)

**ENTC 5347 Digital Signal Processors (4 credits)—**Prerequisite(s): ENTC 5337. A course designed to provide the Technology student with an opportunity to develop a single board computer. Topics include review of SDK-65 hardware and instruction set, arithmetic operations, serial data communications, interfacing analog devices, using interval timers, speech synthesis, and an introduction to troubleshooting. Lecture and laboratory. (spring)

**ENTC 5417 Construction Financing & Administration (3 credits)—**Prerequisite(s): ENTC 2410, 2430, CSCI 1000. 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 5600 History and Philosophy of Vocational Education (3 credits)—**The nature and philosophy of vocational-technical education. A study of the development of industrial education and its relationship to the development of technical education. The purposes of vocational education in regard to the total change program.

**ENTC 5610 Content and Method in Industrial Education (3 credits)—**Basic assumptions for content and methods in industrial education. Development and organization of content and methods indicated by research in the field. Creation and utilization of teaching materials and devices appropriate to industrial education. Lecture.

**ENTC 5617 Vocational Guidance (3 credits)—**Including 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 handicapped and disadvantaged, and vocational classes will be explored. Lecture.

**ENTC 5620 Administration & Supervision in Industrial Education (3 credits)—**The organization and operation of industrial education programs. Evaluation of objectives, programs, instruction, facilities. School and community relationships, budgets, and inventories. Problems of the supervisor. Differentiation of industrial arts/technology education from trade and industrial education, apprenticeships, and technical education programs.

**ENTC 5630 Project Management (3 credits)—**Prerequisite(s): Graduate Standing. A study of contemporary project management. The course focuses on the development and/or enhancement of the ability to successfully plan, schedule, budget, monitor, and control the execution of projects. Lecture with emphasis on teamwork, team exercises, and presentation. (fall, even years)

**ENTC 5640 Innovative Entrepreneurship (3 credits)—**Prerequisite(s): Graduate Standing. Focus on new business creation based on technology innovation. Provides the innovative prudent risk taker with a practical approach for converting brilliant ideas into wealth. Fundamental methodology is applicable to all who have the desire and drive to start their own business. Lecture with emphasis on teamwork, team exercises, and presentation. This course is helpful to those having new business and/or product innovation responsibility within existing industry. (spring, even years)

**ENTC 5717 Computer Assisted Numerical Control Programming (3 credits)—**Prerequisite(s): ENTC 3710. A study of computerized methods for generating numerical control (N/C) programs utilizing (1) tool path definition software applicable to CAD drawing databases and (2) N/C programming languages including AP&T and COMPACT II. Source program structure including initialization, geometry definition, and cutter path definition statements. Links and post processors. Syntax conventions. Writing, running, and debugging source programs to generate list/cutter location files and tape files. Lecture and laboratory.

**ENTC 5777 Safety Management (3 credits)—**A study of the causes of accidents, methods of preventing accidents, personal protection, OSHA and industry, and general shop safety.

**ENTC 5800 Strategic Experience (3 credits)—**Prerequisite(s): All graduate coursework in Technology concentration completed. Course is designed to be taken in the last semester of program. Requires graduate committee chair approval. This course is designed to provide the Technology student with an opportunity to apply the skills, knowledge, and experience gained in the program in a realistic problem solving environment. It concludes with the concentration written and oral final examination. (spring)

**ENTC 5900 Independent Study in Technology (1-9 credits)—**Individual students or groups of students define a problem and work under direction of a faculty member. The problem must be approved by the departmental graduate committee. Significant investigation and reporting required.
ENTC 5950 Methods of Research (3 credits)—Analysis of the materials and methods of research appropriate to technology. Orientation to graduate work; should be taken during first term of graduate program. (Alternate years)

ENTC 5957 Topics in... (1-6 credits)—Prerequisite(s): /s dependent on subject matter. Selected topics of current interest in technology. Offered upon sufficient demand for specific subject matter. May be repeated for different topics.

Consultation with the instructor is recommended before enrollment.

ENTC 5960 Thesis 1- (3 credits)

ENTC 5990 Readings and Research (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus MUST enroll for 1-3 credits. Variable credits (1-3)/of Readings and Research may also be used, as approved by student’s advisory committee in conjunction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Readings and Research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U).

ENTC 5899-99 Internship/Cooperative Education (1-3 credits)—Students must clear arrangements for this course through the Cooperative Education Office prior to enrollment. Businesses, industries, and government agencies provide opportunities for planned and supervised work assignments. Students may alternate between periods (usually two semesters) of full-time study and employment with a cooperative education employer. Credit received will not apply to degree requirements. Students may receive compensation as full-time employees.

Environmental Health (ENVH)

ENVH 5100 Environmental Health Practice I (3 credits)—The effects of environment and occupations on health are discussed. Consideration is given to such factors as soil, water, wastewater, insects, rodents, and noise. The historical background of human ecology, communicable disease control, and special problems and programs in public health are discussed. Not required for students with a B. S. E. H. or equivalent. (Offered fall)

ENVH 5200 Environmental Chemistry (4 credits)—Prerequisite(s): ENVH 4397 or permission of the instructor. A course covering the advanced instrumentation used in environmental chemistry. Includes principles of quality assurance and quality control. (Alternate years)

ENVH 5207 Principles of Radiological Health (3 credits)—This course is concerned with the basis of principles and procedures pertaining to the safe control of all common sources of ionizing radiation. The causes, effects, and control of radiation are included. (Offered fall)

ENVH 5250 Environmental Microbiology (4 credits)—Prerequisite(s): ENVH 5387 or permission of the instructor. A study of those aspects of biology, microbiology, biochemistry, and physiology of concern to students interested in environmental health. Includes principles of toxicology and ecological management methods used in hazardous waste contamination remediation. (Alternate years)

ENVH 5347 Ergonomics (3 credits)—This course will deal with the study of human factors engineering concerning persons, their work, and the work environment. Includes a discussion of the ergonomics approach to the environment, including sensory factors, motor control, work place design, heat stress, noise, vibrations, illumination, the measurement of work, anthropometric data, and related topics. (Alternate years)

ENVH 5357 Toxicology (3 credits)—Prerequisite(s): CHEM 2010/2011 and HSCI 3020 or permission of instructor. A study of the essentials of toxicity determination and measurements, plus a study of 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. (Offered fall)

ENVH 5387 Biological Analysis in Environmental Health (4 credits)—Prerequisite(s): A course in general microbiology 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. Instrumentation used in qualitative and quantitative analysis of the biological environment. (Offered fall)

ENVH 5397 Environmental Analysis (4 credits)—Prerequisite(s): CHEM 1110/ 1120 and permission of the instructor. Provides education in physical and chemical analysis of water, wastewater, food, air, toxic materials, and principles of applied toxicology. Experience in the use of chemical instruments, as well as field methods, will be obtained. Three hours lecture and three hours laboratory. (Offered spring)

ENVH 5500 Air Pollution Principles (3 credits)—A course designed to introduce the student to the broad field of air pollution. Lecture topics include sources, emissions, atmospheric dispersion, effect on humans, materials, and control equipment. (Alternate years)

ENVH 5600 Water Pollution Principles (3 credits)—A course covering the sources, causes, and effects of water pollution in light of water standards; reviews methods of control of the physical, chemical, and biological factors. (Alternate years)

ENVH 5607 Food Sanitation Principles (3 credits)—A study of food composition, engineering principles, processing and preservation methods, foodborne diseases and food regulatory programs. (Offered fall)

ENVH 5610 Water Pollution Control (3 credits)—This course provides information concerning sources of water pollution and emphasizes biological and physical containment of water pollutants. (Alternate years)

ENVH 5640 Environmental Risk Assessment (4 credits)—A survey course designed to introduce the student to the emerging science of environmental risk assessment. The course is designed to apply characteristics of hazardous materials, chemistry, and biology to the assessment of risk associated with exposure to hazardous materials or hazardous waste. (Alternate years)

ENVH 5700 Industrial Hygiene and Safety (3 credits)—A course on the problems of occupational disease hazards and preventive measures of their control. It includes occupational exposure to dusts, gases, vapors, fumes, biological agents, and other problems related to industrial health and safety. Field trips are taken to typical industries. (Alternate years)

ENVH 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. (Offered summer)

ENVH 5760 Industrial Ventilation (3 credits)—Prerequisite(s): ENVH 5700 or permission of the instructor. A course looking at basic design and application of industrial ventilation systems including the design, selection, and operation of fans, ducts, and air handling systems. Course content centers around the use of various monitoring instruments required to perform ventilation surveys, calculation of work design problems, and troubleshooting ventilation systems. (Alternate years)

ENVH 5780 Characteristics of Hazardous Material (3 credits)—This course provides a general description and classification of hazardous materials. Categories of hazardous materials are described based on chemical characteristics, effects, and regulatory requirements. The course also summarizes methods of analysis. (Alternate years)

ENVH 5840 Solid Waste Management (3 credits)—This course is designed to investigate problems and solutions to the storage, collection, and disposal of solid waste. The content of the course centers around the solid waste planning and management aspects of designing, organizing, and operation of refuse collection, recycling, and disposal systems. (Alternate years)

ENVH 5841 Hazardous Waste Management (3 credits)—The course emphasizes a managerial approach for hazardous waste with particular regard to regulation under the Resource Conservation and Recovery Act. The problem of hazardous waste is defined, and other topics covered include generation, storage, transport, management of spills, disposal, and more. (Alternate years)

ENVH 5850 Environmental Health Administration (3 credits)—A study of environmental health programs and organization. Includes organization structure, forces of management, administrative controls, personnel and financial management, and legal aspects. Lectures, seminars, discussions, and group exercises. (Alternate years)

ENVH 5870 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 of the recognition and management of legal problems; and an analysis of the legal relationship of public health personnel to the government, the staff, and the public. (Alternate years)

ENVH 5871 Hazardous, Toxic, & Industrial Chemicals, Laws, & Regulations (3 credits)—This course provides an introduction to the process of development and application of federal environmental regulations, with a detailed review of the laws and associated regulations, which govern the hazard of hazardous materials. (Alternate years)

ENVH 5880 Environmental Planning (3 credits)—This course emphasizes the planning process as it relates to the health and welfare of the community; i.e., defining the problem, determining the objectives, applying methods to solve the problems, evaluating the methods, and implementing the complete program plan. (Alternate years)

ENVH 5900 Independent Study (1-3 credits each)—Independent or cooperative investigation of specific problems in environmental health. (Offered each term)

ENVH 5910 Seminar (1 credit)—A study of the principles, materials, and methods of research employed in environmental health. (Offered fall)

ENVH 5980 Research and Thesis (1-3 credits)—(Offered each term)

ENVH 5990 Research and Reading (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus MUST enroll for Readings and Research. Variable credits (1-3) of Readings and Research may also be used, as approved by student’s advisory committee in conjunction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Readings and Research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U). (Offered each term)

ENVH 5999-99 Internship/Cooperative Education (1-3 credits)—Students must clear arrangements for this course through the Cooperative Education Office prior to registration. Businesses, industries, and government agencies provide opportunities for planned and supervised work assignments. Students may alternate between periods (usually two semesters) of full-time study and employment with a cooperative education employer. Credit received carries full academic value, and students may receive compensation as full-time employees. (Offered each term)
FREN 5017 Advanced French Grammar (3 credits)—Prerequisite(s): FREN 2020 or instructor's permission. This course focuses on an in-depth review of troublesome aspects of French grammar complemented by contextual analyses drawn from cultural and/or literary readings selections.

FREN 5117 French Drama from 1600 to the Present (3 credits)—Selected plays from major French dramatists from 1600 to the present.

FREN 5217 16th Century French Literature (3 credits)—Selected works by the principal 16th century writers and poets of the Renaissance.

FREN 5317 17th Century French Literature (3 credits)—Selected works from the prose, poetry, and theatre of the principal authors of the Classical period.

FREN 5337 French Phonetics and Pronunciation (3 credits)—A study of the international alphabet, incorporating phonetic transcription and description.

FREN 5417 18th Century French Literature (3 credits)—Selected works of the French philosophers and authors of the Age of Reason.

FREN 5517 19th Century French Literature (3 credits)—Selected works from the prose and poetry of the major authors of French Romanticism.

FREN 5617 20th Century French Literature (3 credits)—Selected works from the prose and poetry of major French authors of the 20th century.

FREN 5900 Special Studies in French (1-6 credits)—Designed to provide opportunities for study in areas not provided for in the regular course offerings for graduates. Students desiring to enroll should obtain permission from the instructor.

FREN 5957 Topics in French (1-6 credits)—Prerequisite(s): Permission of the instructor. This course gives students an opportunity to study special problems and new developments in the field of French.

GEOG 5000 Quantitative Techniques (3 credits)—Statistical and mathematical analysis of spatial distributions and areal data. (fall and spring, even years)

GEOG 5007 Geography of the United States (3 credits)—A regional study of the physical and cultural elements of the United States. (fall, odd years; spring, even years)

GEOG 5010 Location Theory (3 credits)—Classical and contemporary theories concerned with the spatial organization of population and economic activity.

GEOG/PMGT 5107 Urban Geography and Planning (3 credits)—A geographic and spatial analysis of cities and urban regions. Urban growth patterns, location and interaction, analysis, planning for urban region, and travel behavior are emphasized. (spring, even years)

GEOG 5110 Seminar Physical Geography (3 credits)—A seminar in current studies in physical geography and their significance in explaining the surface configuration of the earth.

GEOG 5117 Resource Management (3 credits)—The study of cultural attitudes, conceptual approaches, and evaluation techniques in resource management. Analysis of selected resource issues at various areal scales. (spring, even years)

GEOG 5140 Seminar Regional Geography (3 credits)—Under this cover title, individual courses will be offered in such areas as Latin America, Europe, United States, the South Africa, and the U. S. S. R. May be repeated if subject matter changes.

GEOG 5210 Geography of Settlement and Land Use (3 credits)—A study of settlements, settlement features, settling processes, and associated land use.

GEOG 5217 Geographic Information Systems (3 credits)—The field of GIS is relatively new and expanding and is concerned with techniques and theory of cartographic and spatial data rectification and enhancement, and spatial information extraction. (fall)

GEOG 5227 Remote Sensing (3 credits)—A systematic treatment of elements involved in interpreting, measuring, and mapping of images that appear on aerial photographs. (fall)

GEOG 5237 Advanced Remote Sensing (3 credits)—Prerequisite(s): GEOG 3210 or GEOG 5000. A study of different types of remotely sensed images and their interpretation.

GEOG 5257 Geography of Soils (3 credits)—An introduction to soil science. Particular attention is focused on soil morphology, soil classification, and the study of distributional patterns of soils and their relationships to other geographical elements. (spring, even years)

GEOG 5267 Hydrology (4 credits)—The study of water as it occurs in all phases of the hydrologic cycle and the analysis of currently developing water problems on the local, regional, and national level.

GEOG 5307 Regional Geography (3 credits)—Under this cover title, individual courses will be offered in such areas as Europe, Latin America, Asia, Soviet Union, and Africa. Course may be repeated as subject matter changes. (fall, spring)

GEOG 5310 Evolution of Geoscience Thought (3 credits)—A study of the development of geography as a discipline and the philosophies accompanying the development over time.

GEOG 5317 Advanced Geographic Information Systems (3 credits)—Prerequisite(s): GEOG 5217. 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 software called ArcView. A hands-on understanding of the nature and functionality of this software will be acquired within a workstation computer environment. (spring, even years)

GEOG 5320 Geographic Information Systems Projects (3 credits)—Prerequisite(s): GEOG 4217 and 4317 or permission of instructor. This course is designed to further enhance the learning skills of students interested in a career involving the use of GIS. The course will consist of a series of supervised student projects that will reflect the types of GIS applications encountered in the world outside of academia. Lecture and laboratory.

GEOG 5417 The Teaching of Geography and Earth Science (3 credits)—Prerequisite(s): Admission to M. A. T. Program. A course in methods and materials for teaching geography in grades seven-twelve which will include teaching experiences in an area school. This course earns education credit only and does not meet requirements for a major or minor in geography. (fall, spring)

GEOG 5807 Advanced Field Methods in Geography (3 credits)—A study of methods of measuring, recording, and synthesizing field data in geography.

GEOG 5907 Independent Studies (1-3 credits)—Prerequisite(s): Permission of department chair is required. Repeatable.

GEOG 5957 Topics in Geography (1-6 credits)—Prerequisite(s): Permission of department chair is required. Repeatable.

GEOG 5960 Thesis in Geography (1-3 credits)

GEOG 5990 Readings and Research (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus MUST enroll for Readings and Research. Variable credits (1-3) of Readings and Research may also be used, as approved by student’s advisory committee in conjunction with
other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Readings and Research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U).

**GEOG 5989-99 Internship/Cooperative Education (1-3 credits)—Students must clear arrangements for this course through the Cooperative Education Office prior to registration. Businesses, industries, and government can provide opportunities for planned and supervised work assignments. Students may alternate between periods (usually two semesters) of full-time study and employment with a cooperative education employer. Credit received carries full academic value, and students receive compensation as full-time employees.**

**Geology (GEOL)**

**GEOL 5100 Lower Vertebrate Paleontology (4 credits)—Prerequisites: GEOL 1050, GEOL 3395, or BIOL 1120, or permission of instructor. This course covers "lower" vertebrate (fish, amphibians, and reptiles) evolution through time and discusses 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 1-hour lectures and two 3-hour labs weekly. (fall, even years)**

**GEOL 5150 Higher Vertebrate Paleontology (4 credits)—Prerequisites: GEOL 3395 or permission of instructor. This course covers "higher" vertebrate (birds and mammals) evolution through time and discusses 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 1-hour lectures and two 3-hour labs weekly. (fall, odd years)**

**GEOL 5307 Field Methods in Paleontology (3 credits)—Prerequisite: GEOL 3395 or permission of instructor. The goal of this course is to prepare students for field work in paleontology and the paleontological research experience. The techniques will be the Gray Fossil Site in Washington County, TN, but additional Pleistocene sites from the region will also be utilized. Four days in the field and one day in the classroom, weekly.**

**GEOL 5360 Statistical Methods in Paleontology (3 credits)—Prerequisite: MATH 2010 or permission of instructor. This course will introduce students to the mathematical and analytical procedures most commonly used in paleontology. Although there are many, the focus will be on those most relevant to vertebrate paleontology (because of the Gray site and other local Pleistocene sites). Three 1-hour lectures weekly. (fall, even years)**

**GEOL 5587 Engineering Geology (4 credits)—Prerequisite(s): GEOL 1040, MATH 1920 or permission of instructor. Real-world applications of geology in the field of engineering. Topics include: soil properties, floods and flood control, dams, stream management and reconstruction, erosion and eroation 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. Lab exercises with actual projects, and applications beyond the classroom. Weekend field trips include two lectures and two labs weekly. (fall, odd years)**

**GEOL 5617 Structural Geology (4 credits)—Prerequisite(s): GEOL 1040, MATH 1920 or permission of instructor. Focus is on the description and analysis of geological structures within the Earth’s crust, with an introduction to global tectonics. Includes the description of geological structures; the kinematics and dynamics of folding and faulting; stress, strain, deformation and rheology; introduction to dislocation theory; principles of plate tectonics; structural analysis; and selected orogenic systems of the world. Three lectures and two laboratory sessions weekly. (fall, odd years)**

**GEOL 5700 Geology Seminar (1 credit)—This class seeks to teach scientific reasoning and critical thinking by discussing and debating current topics in geology (including, but not restricted to, natural resources, natural history, and natural hazards). Students will be encouraged to "pick sides" and support their position through the synthesis of the selected readings, self-chosen additional readings, and personal/educational experience. One lecture/discussion weekly.**

**German (GERM)**

**GERM 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 5147 The German Short Narrative (3 credits)—Selected short-prose works of representative authors of the late 19th and the 20th century.**

**GERM 5157 Austrian Literature (3 credits)—Selected works of principal Austrian writers and their impact on German literature.**

**GERM 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 5901 Special Studies in German (1-6 credits)—Designed to provide opportunities for study in areas not provided for in the regular course offerings for graduates. Students desiring to enroll should obtain permission from the instructor.**

**GERM 5957 Special Topics in German (3 credits)—Prerequisite(s): Permission of the instructor. This course gives students an opportunity to study special problems and new developments in the field of German.**

**Graduate School (GRAD)**

**GRAD 5110 Teaching Pedagogy for the Graduate Teaching Assistant (1 credit)—This course will focus on higher education teaching pedagogy and effectiveness in different settings such as classroom and laboratory. The course is designed to complement discipline-specific activities such as "Supervised Experience in Teaching" courses, and it will emphasize effective communication as well as classroom management strategies. This course has an alternate delivery schedule and has 4 class meetings per term.**

**GRAD 7800 Faculty Technology Leadership I (3 credits)—This course prepares faculty who are interested in integrating technology within their courses. Course content includes the use of advanced course management system applications, multimedia applications, and applications required for efficient and effective delivery of electronic course materials. Production and incorporation of a multimedia learning unit into a course is the capstone project for this course.**

**GRAD 7810 Faculty Technology Leadership II (3 credits)—This course builds on the skills of GRAD 7800 to support faculty interested in the creation of Web-based and Web-enhanced courses. Course content includes the use of advanced course management system applications, Web-based and Web-enhanced pedagogies and mechanics as well as principles of Web-based course design. Production of a Web-based or Web-enhanced course will be the final project for this course.**

**Counseling (HDAL)**

**HDAL 5100 Principles and Administration of Counseling and Consultation Services (3 credits)—A survey of the principles and professional activities required for the effective practice and/or administration of a comprehensive guidance, counseling, and consultation program in schools. Emphasis is placed on the role of the administrative roles defined by the American School Counselors’ Association and other professional groups within the school system and the community. Field experiences interviewing practicing school counselors and teachers are required as well as classroom observations. This course is also designed to acquaint the student with theories and techniques used when consulting. Role playing of consultation in various settings and field experience will be required. (spring)**

**HDAL 5100 Human Relations and Group Processes (3 credits)—This course will provide students with a knowledge of group theory and practice, allow students to understand the group theory and practice, and provide students with an understanding of group theory and practice. (fall, spring)**

**HDAL 5110 Social and Cultural Foundations in Counseling (3 credits)—This course is designed for counselors to develop competencies and awareness for working with people of diverse groups in society. Students will have opportunities to develop awareness of their own cultural values and biases, to study the prevalent beliefs and attitudes of different cultures, and to understand the impact of oppression on individuals. (fall, spring)**

**HDAL 5127 Divorce: Causes and Consequences (3 credits)—Explores the sociopsychological impact of divorce on families. The economics, legal, social, emotional, co-parental, and former spouse consequences of divorce will be discussed. The various theoretical models explaining both the movement toward divorce, as well as the divorce transition, will be described. Special attention will be given to the impact of divorce on children. (spring)**

**HDAL 5137 Youth Violence—Intervention to Prevention (3 credits)—This course is designed to inform and train individuals in a variety of fields that deal with children and youth. The course is a combination of defining the concept of violence in society, evaluating current research in the field, and looking at practical strategies for developing protective factors for youth. Students will view various media representations of violence patterns and solutions, review current literature, and listen to some brief lecture material. The majority of time will be spent on student interaction with each other and the instructor.**

**HDAL 5150 Career Development: Theory, Research and Practice (3 credits)—Students will study major theories and research related to career development throughout the life span. Students will also investigate the use of career information systems and career and educational resources for counseling program planning and implementation. (fall)**

**HDAL 5200 Advanced Educational Psychology (3 credits)—A study of psychological and educational principles relevant to the teaching/learning process. Methods and concepts engaging practical application are emphasized.**

**HDAL 5220 Advanced Adolescent Psychology (3 credits)—This course familiarizes students with a broad range of topics that are pertinent to physical, cognitive, and social development during adolescence. (fall, spring)**

**HDAL 5230 Advanced Developmental Psychology (3 credits)—A survey of the principles of human development throughout the life span. (fall, summer)**

**HDAL 5250 Counseling in Community Agencies (3 credits)—Prerequisite(s): An understanding of psychology terminology. This course is a survey of theoretical and applied information for counselors working in community mental health agencies. Course content includes history and philosophy, roles of workers, organizational and delivery systems, program development and evaluation, consultation, specific populations, interviewing, prevention and intervention strategies, and current issues related to agency counseling. (spring)**
HDAL 5260 Principles of Teaching and Learning (3 credits)—This course will provide study of major theories of teaching and principles of teaching. Significant emphasis is placed on the application of these theories to classroom practice, with attention given to teaching-learning strategies in specific content areas. Educators are provided with the opportunities to develop and reflect upon their own theories of teaching and learning in their classrooms.

HDAL 5277 Foundations of 21st Century Leadership (3 credits)—Prerequisite(s): Permission of instructor. Students learn key behaviors and skills critical to the success of leaders facing today’s work force and economic challenges. Individual assessment, feedback, and application of new skills are emphasized. The applied nature of the course is designed for the graduate and returning adult student, significant work, professional, or military experience. (fall)

HDAL 5420 Family Therapy I (3 credits)—An introduction to the basic philosophical and psychological assumptions, rationales, techniques, and methods of implementation underlying major theoretical approaches to marriage and family therapy. (fall)

HDAL 5421 Family Therapy II (3 credits)—Prerequisite(s): HDAL 5420. A continuation of study of the basic philosophical and psychological assumptions, rationales, techniques, and methods of implementation underlying major theoretical approaches to marriage and family therapy. (spring)

HDAL 5422 Counseling with Couples (3 credits)—This course will address couple development and dynamics that contribute to difficulties in relationships. Therapeutic approaches for intervening with couples will be examined. (fall and of 2009 and 2010; spring only beginning 2011)

HDAL 5423 Postmodern Approaches to Family Therapy (3 credits)—Prerequisite(s): HDAL 5420. An introduction to various postmodern approaches to understanding and working with couples and families. An examination of differences and similarities between modernist and postmodern paradigms and their implications for clinical practice. (spring, may move to fall)

HDAL 5430 Legal and Ethical Issues in Counseling (3 credits)—This is a seminar designed to address ethical and legal issues for professional counselors. Students will gain an understanding of the ways that legal and ethical issues affect the practice of counseling and therapy. These issues include (1) the influence of the personal characteristics and values on the counseling process; (2) confidentiality, privileged communication and the rights of clients; (3) malpractice, (4) counseling training, competence, and licensure, (5) diagnosis in counseling, and (6) psychopharmacology used in treatment. (fall, summer)

HDAL 5440 Treating Trauma and Abuse in the Family (3 credits)—This course will examine current research and theory regarding sexual and physical abuse of children and partner violence, including causes, dynamics, and consequences. Emphasis will be on cognitive-behavioral approach and working with couples and families involved in abusive situations. (spring, summer)

HDAL 5467 Leadership Studies (3 credits)—Prerequisite: Successful completion of 60 credit hours. The study of leadership from a historical and contemporary perspective. Students identify, apply, and reflect on aspects of leadership development, including concepts of personal change toward effective leadership in a changing environment. Topics cover personal assessment and development, values and ethics, power and influence, followership, group dynamics, controversy with civility, and citizenship. Students observe a decision-making group outside of class over the course of the semester.

HDAL 5459 Violence Against Individuals and Families (3 credits)—This course will train counselors to work with individuals and families who have substance abuse disorders. The course will focus on the following areas of substance abuse: legal and ethical issues; physiology; psychological, cultural, and gender factors; and counseling techniques with individuals and families; and preventative measures for substance abuse. (fall)

HDAL 5550 Counseling (3 credits)—An introduction to the basic philosophical and psychological assumptions, rationales, techniques, and methods of implementation underlying major theoretical approaches to counseling and psychotherapy. (fall, spring)

HDAL 5561 Counseling Techniques with Children (3 credits)—Prerequisite(s): HDAL 5420 or 5550. Through lecture, role-play, video feedback and the use of creative (expressive) arts, students will be provided an opportunity to develop skills at individual, small and large group counseling and therapy, play therapy, and family interventions, including parent education. (fall)

HDAL 5562 Counseling II (3 credits)—Prerequisite(s): HDAL 5550. A continuation of study of the basic philosophical and psychological assumptions, rationales, techniques, and methods of implementation underlying major theoretical approaches to counseling and psychotherapy. (fall, spring)

HDAL 5563 Advanced Counseling Techniques with Children (3 credits)—Prerequisite(s): HDAL 5561 and HDAL 5562, or their equivalents. This course assumes a foundation of basic skills for counseling children has been attained. Through lecture, role-play, video feedback and the use of creative (expressive) arts, students are to provide an in-depth exploration of the development, individual and small group counseling and therapy, play therapy, and family interventions, including parent education. (cohort only)

HDAL 5570 Supervised Counseling Practicum (3 credits)—Prerequisite(s): Admission to practicum for important work experience. HDAL 5100 (except Marriage and Family Therapy), 5430, 5550 (or 5420), and/or current enrollment in 5562 (or 5421). This is an experiential course in which the student will apply individual and group counseling skills. Field experiences will be required. It will involve a semester of counseling experience under the direct supervision of an East Tennessee State University faculty member. (fall, spring)

HDAL 5572 Seminar in Counseling Issues (3 credits)—This is a seminar in which those in counseling and related fields can upgrade their knowledge in a number of areas. Each group will be presented by a specialist in that particular area. Topics could include satanic worship, gangs, bereavement, AIDS, gays and lesbians, family violence, sexual abuse, and the use of psychodrama and the creative arts. (variable)

HDAL 5575 Advanced Group Processes (3 credits)—Prerequisite(s): HDAL 5420. Advanced group counseling and group counseling dynamics at an advanced level. Students will participate in an interpersonal examination of behavior in a group setting and derive implications for group facilitation from both the experiential and didactic aspects of the course. (variable)

HDAL 5581 Trends and Issues in Higher Education (3 credits)—Current trends and issues in higher education and their historical antecedents will be explored. Emphasis is directed toward the continual challenges and opportunities higher education faces in a democratic and pluralistic society and the issues encountered in meeting them. (spring only, every two years)

HDAL 5722 Student Development and the College Environment (3 credits)—This course is designed to familiarize students with major theories of student development and apply key theoretical concepts that address students’ cognitive, intellectual, identity, personalit, ethical, moral, career and social development during the college years. Issues that reflect the diversity, complexity, and change in higher education today are also examined. Emphasis is placed on examining student needs, satisfaction and cultures; the impact of campus environments on student development; and the analysis of programs/services outcomes. (fall only, every two years)

HDAL 5710 Psychological Assessment in Counseling (3 credits)—A study of psychometrics, test construction, and interpretation of results for major assessment instruments used in community mental health and school systems. Students will become familiar with assessment instruments and be able to critically evaluate them. Upon completion of this course, students will be able to utilize test results in diagnostic and counseling settings. (fall, summer)

HDAL 5817 Abnormal Psychology (3 credits)—Prerequisite(s): a course in abnormal psychology, HDAL 5817, HDAL 5550, and HDAL 5520. An examination of the construction and purpose of the principle objective and subjective personality tests used in psychological counseling. Emphasis and practice will be on administering, interpreting, and report writing. Current issues in personality assessment will be discussed. (summer)

HDAL 5825 Developmental Psychopathology for Counselors (3 credits)—Prerequisite: Permission of instructor. This course addresses the dangers of psychological labeling and pathologizing clients while also teaching professional processes for diagnosis, using the DSM-IV-TR (2000), case conceptualization, and therapeutic treatment planning. Common diagnoses applied to children, adolescents, and adults are considered from both individual and systemic perspectives. (summer)

HDAL 5830 Individual Mental Testing (Also Psychology 5830) (4 credits)—Prerequisite(s): a course in abnormal psychology, HDAL 5817, HDAL 5550, and HDAL 5520. This course will instruct students in the administration and interpretation of the WAIS-III, WISC-III, and McCarthy Scales, and familiarize students with other individual mental tests, including the Kaufman ABC and the Stanford-Binet Intelligence Scale, and introduce students to the field of individual mental testing. Prerequisite(s): HDAL 5800 Internship (1-3 credits)—(initial class, fall; advanced class, spring) HDAL 5830 and approval of the program option coordinator. The internship is designed to provide students with on-the-job experience under the supervision of a fully trained professional in an appropriate setting. Internships are subject to the availability of an appropriate setting and position openings available. In order to accommodate students, students must apply for internship at least one full semester in advance. (fall, spring, summer)

HDAL 5957 Special Topics in Human Development and Learning (1-6 credits)—(initial class, fall; advanced class, spring)

HDAL 5960 Thesis (1-3 credits)—Prerequisite(s): EDFN 5960. (every semester) HDAL 5990 Readings and Research (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus MUST enroll for Readings and Research. Variable credits (1-3) of Readings and Research may also be used, as approved by student’s advisory committee in conjunction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Readings and Research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory or unsatisfactory. Grading of these credits is not for advanced standing. (SP), unsatisfactory (SP), or unsupervised (U).

HDAL 5653 Advanced Social and Cultural Foundations of Counseling (3 credits)—Prerequisite(s): HDAL 5110 or its equivalent. This course is designed for students in the helping profession to develop advanced competencies for working with diverse populations. Students will study basic counseling theories and techniques for counselor multicultural populations. Special attention will be given to working with minority, non-dominant, and oppressed populations. (cohort only)
HDAL 6573 Consultation and Systemic Interventions (3 credits)—Prerequisite(s): HDAL 5550 (or 5420) and HDAL 5562 (or 5421) for permission of instructor. This course is designed to acquaint students with system theories and process and techniques used in the consultation process.

HDAL 6585 Trauma and Recovery (3 credits)—This course will address various counseling approaches to working with clients who have been exposed to traumatic events. The traumatic events may include, but not be limited to, events such as automobile accidents, surgeries, bullying behavior, natural disasters, violent crimes, terrorism, or domestic violence. Students will learn how to assess and intervene for trauma at an individual, group, and community level. (cohort only)

HDAL 6593 Advanced Internship and Supervision (3-6 credits)—Prerequisite: Admission to the Ed. S. in School Counseling Program and HDAL 5880 or equivalent. This advanced internship and supervision course is designed to provide a student with the opportunity to have a closely directed experience in supervising interns in the master’s program in Counseling. The class is a seminar that addresses the theory and practice of supervision as well as providing a vehicle for working with clients and presenting supervisory experiences for discussion. (cohort only)

HIST 5010 Studies in United States History (3 credits)—Directed research and readings in selected topics in the history of the United States. (every semester) May be repeated.

HIST 5017 Beginnings of America (3 credits)—A history of the establishment of European settlements in America and the development of those colonies in the 16th and 17th centuries.

HIST 5020 Studies in European History (3 credits)—Directed research and readings in selected topics in European history. (every semester) May be repeated.

HIST 5030 Studies in World History (3 credits)—Directed research and readings in selected topics in the history of areas other than the United States or Europe. (every semester) May be repeated.

HIST 5037 The American Revolution (3 credits)—A study of the origins and development of revolutionary sentiment in 18th century America.

HIST 5047 The Early Republic (3 credits)—A study of the Federalist Period, the Jeffersonian Revolution, and the War of 1812.

HIST 5057 Age of Jackson (3 credits)—A study of the era of great feelings, the age of Jackson, sectionalism, and territorial expansion to the eve of the Civil War.

HIST 5067 The Civil War Era (3 credits)—An advanced course in the history of the Civil War Era with emphasis upon secession; economic and military mobilization; battles and campaigns; and the cultural, diplomatic, and political developments in the period from 1840 to 1877.

HIST 5097 The Emergence of the 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 5107 Recent United States, 1935-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 the international affairs.

HIST 5127 Social and Intellectual History of U.S. to 1777 (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 in the national period.

HIST 5137 Social and Intellectual History of U.S. since 1877 (3 credits)—A study of selected and representative social, cultural, and intellectual themes in American history from the Civil War to the present.

HIST 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 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 5167 History of the Southern Appalachians (3 credits)—A study of the political, economic, social, and cultural developments in Southern Appalachia from settlement to the 20th century.

HIST 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 Northwest territories to the Pacific Coast.

HIST 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 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 formed the basis of Western civilization.

HIST 5227 History of Rome (3 credits)—A survey of ancient Rome from its origins to the fourth century A.D., including the Regal period, the struggle of the Orders, the growth of the Republic, Roman institutions, the Roman conquest of Italy, the fall of the Republic and the growth of autocracy, adjustments in the Empire, the early Christian church, and the culture of Rome and its subject people.

HIST 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, and Greece.

HIST 5247 History of Women in U.S. 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 5257 Expansion of Europe Overseas (3 credits)—A study of the origins of the European expansion, the creation of settler colonies, the "new imperialism" of the nineteenth century, and the impact of these events on non-European peoples and the modern world.

HIST 5377 European Intellectual History (3 credits)—A study of the history of European thought from the French Revolution to the present day.

HIST 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, and 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 5507 England to 1714 (3 credits)—A survey of English history during the 16th and 17th centuries, with emphasis upon events which greatly influenced the world at large.

HIST 5517 England, 1714 to 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 England from an agrarian and aristocratic kingdom to an industrial and democratic state in the 20th century.

HIST 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 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 5627 Modern Germany (3 credits)—A study of the causes and consequences of German unification; the Bismarckian period, the Wilhelmian Age; Weltpolitik and World War I, the Weimar Republic, Hitler and the Nazi Era; World War II and its aftermath. Emphasis will be placed on political, economic, social, and diplomatic developments.

HIST 5707 East Asia Since 1900 (3 credits)—The transformation of China and Japan from regional to international economic powers.

HIST 5717 Modern Middle East (3 credits)—A study of the Middle East from Napoleon through Khomeini, with emphasis on modernization trends and Islamic responses.

HIST 5727 Modern Africa (3 credits)—An advanced, in-depth examination of African social, economic, political, cultural, and intellectual history since about 1800, with special emphasis on the reestablishment of African independence. The principal focus of this class may vary.

HIST 5827 America in the 1960s (3 credits)—The domestic history of the United States during the 1960s, with emphasis on the era’s social and cultural forces: Civil Rights (Martin Luther King Jr., Malcolm X, the Black Power Movement), Social Policy (John F. Kennedy’s New Frontier and Lyndon B. Johnson’s Great Society), the impact of Vietnam and 1968 on the home front (Antiwar Protests, the Contraceptive, Moore, Student Rights, Modern Feminism, environmentalism, and the popular music and literature of the decade.

HIST 5837 Women Since 1945 (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 the protest movements, women’s liberation, defeat of the Equal Rights Amendment, and the rise of radical and conservative.

HIST 5847 American Sports 20th Century to Present (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 issues, as well as their treatment in popular literature and film.

HIST 5900 Independent Studies (1-3 credits)—Independent reading, research, and writing in selected topics on the graduate level. (every semester)

HIST 5940 Studies in Historiography (3 credits)—This course is a study of selected historians and their interpretations. (spring)

HIST 5950 Introduction to Historical Research (3 credits)—The objective of this course is to familiarize graduate students with research methodology and research standards shared by practitioners in this discipline. This training is fundamental for those who expect to terminate their formal education with an M. A. as well as those who anticipate the pursuit of a Ph.D. in history. (fall)

HIST 5960 Thesis (1-3 credits)

HIST 5990 Readings and Research (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus MUST enroll for Readings and Research. Variable credits (1-3) of Readings and Research may also be used, as approved by student’s advisory committee in conjunction with other
coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Readings and Research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U).

**HIST 5989-99 Cooperative Education** (1-3 credits)—Students must clear arrangements for this course through the Cooperative Education Office prior to registration. Businesses, industries, and government agencies provide work opportunities for planned and supervised work assignments. Students may alternate between periods (usually two semesters) of full-time study and employment with a cooperative education employer. Credit received carries full academic value, and students receive compensation as full-time employees. (as needed)

**HIST 5957 Topics in...** (1-6 credits)—Prerequisite(s): Dependent on subject matter. Selected topics of current interest in history. Offered upon sufficient demand for specified subject matter. Consultation with the instructor is recommended before enrollment. (every semester) May be repeated.

### Health Sciences (HSCI)

**HSCI 5067 Neurology** (4 credits)—Prerequisite(s): Human or Vertebrate Anatomy and Physiology. A basic study of neuroanatomy and neurophysiology, including normal mechanisms and some abnormal mechanisms and neurological abnormalities. Laboratory work consists of a study of preserved human brains and comparison of these brains with other animals. The spinal cord and peripheral parts of the nervous system are studied using slides and models. Selected neural mechanisms are illustrated using test animals. Two hours lecture and two two-hour laboratories per week. (spring)

**HSCI 5100 Pathogenic Microbiology** (2 credits)—Prerequisite(s): Introductory Pathogenic Microbiology. Advanced study of the specific biochemical, pathological, and physiological mechanisms by which infectious agents produce disease. Two hours lecture per week. (spring)

**HSCI 5160 Advanced Virology** (3 credits)—Prerequisite(s): Immunology. A study of the origins, causes 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 1937 and end with the beginning of the Cold War and the rebuilding of Japan.

**HIST 5957 Topics in...** (1-6 credits)—Prerequisite(s): Dependent on subject matter. Selected topics of current interest in history. Offered upon sufficient demand for specified subject matter. Consultation with the instructor is recommended before enrollment. (every semester) May be repeated.

### Interdisciplinary Gerontology (IDGE)

**IDGE 5000 Introduction to Normal Aging: Interdisciplinary Approach** (3 credits)—This course provides an introduction to some of the major conceptual themes and variety of pertinent issues within the field of gerontology from an interdisciplinary perspective. The course gives participating students a common body of knowledge from which they can pursue specific areas related to the field of study during the aging process. (fall)

**IDGE 5500 Advanced Seminar in Gerontology: An Interdisciplinary Approach** (4 credits)—This course provides a culminating experience for students in the gerontology certificate program. Students will participate in either a research or practice experience and will share progress from their work in this seminar. (spring)

### Kinesiology, Leisure and Sport Sciences (KLSS)

**PEXS 5400 Pedagogy** (3 credits)—This course is designed to teach students how to understand, recognize, analyze, and demonstrate the range of teaching skills employed by a successful physical education specialist. Emphasis is placed on understanding the theoretical implications of different teaching skills and the contexts in which they are effective. (fall, every years)

**PEXS 5450 Physical Education, Sport and Leisure Activity** (3 credits)—This course will provide instruction in the characteristics and educational considerations for specific disabilities to ensure appropriate evaluation, placement, and instruction for physical education, sport, and leisure activity programs for individuals with disabilities. (spring, odd years)

**PEXS 5460 Inclusion in Physical Education, Sport and Leisure Activity** (3 credits)—Prerequisite(s): PEXS 4250 or permission of instructor. This course will provide instruction in the approaches, methods, and materials needed for the mainstreaming/inclusion of children, adolescents, and adults with and without disabilities in physical education, sport and leisure activity settings. Research, legislation, and litigation related to the inclusion of persons with disabilities will be emphasized.

**PEXS 5467 Nutrition and Exercise** (3 credits)—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 instruction strategies affect these diseases mechanistically from a pathological perspective.

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**PEXS 5467 Nutrition and Exercise** (3 credits)—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 instruction strategies affect these diseases mechanistically from a pathological perspective.
PEXS 5470 Systematic Observation and Analysis of Instruction (3 credits)—This course will provide an overview of techniques and instruments used to observe and analyze instruction. Practical experience with current observation instruments, and the techniques and methods to develop and implement a personalized observation instrument to improve teaching, will be emphasized. (spring, odd years)

PEXS 5520/6520 Instrumentation in Exercise and Sport Science (3 credits)—This course is designed to provide the student with an in-depth knowledge of the selection and operation of laboratory equipment used to measure performance, physiological, and anthropometrical adaptations of the human body to exercise and sport training. Furthermore, students will analyze and report data collected from various measurement techniques covered in this course. Identification and explanation of grant funding opportunities for procurement of equipment will be presented.

PEXS 5540 Exercise Testing and Prescription (3 credits)—Prerequisite(s): PEXS 4620 or equivalent. The purpose of this course is to prepare the student in graded exercise testing, recognition of ECG arrhythmias, and exercise prescription for the apparently healthy as well as the diseased adult population. American College of Sports Medicine guidelines are followed, with preparation for ACSM certification. (fall)

PEXS 5600/6600 Sports Conditioning I (3 credits)—Theoretical foundations and practical experiences for the development of the training process to improve sports performance for both sexes. Topics include critical movements and strategies for developing and implementing strength and conditioning programs and periodized training.

PEXS 5610 Sport Physiology I: Muscle Metabolism and Hormonal Control (3 credits)—Prerequisite: PEXS 3610 or equivalent. A detailed assessment of the underlying mechanisms behind the acute physiological and biochemical responses to exercise, sport training, and sport performance as they relate to biochemical pathways, muscle physiology, neuromuscular control, endocrinology, and human performance. (spring)

PEXS 5620 Sport Physiology II: Cardiovascular and Respiratory Physiology (3 credits)—Prerequisite(s): PEXS 4620 or equivalent. Underlying mechanisms behind acute cardio-respiratory responses to exercise and chronic cardio-respiratory adaptations to sport training and sport performance for trained, detrained, and master athletes, including mechanism alterations associated with changing environments. (spring)

PEXS 5650 Advanced Concepts in Wellness Promotion (3 credits)—This course is designed to provide an in-depth exploration of wellness theories and practices as they relate to the practice of wellness promotion. Emphasis will be placed on current research and innovative teaching strategies for the Tennessee Wellness Curriculum. (spring, even years)

PEXS 5657 Sports Nutrition and Ergogenic Aids (3 credits) —This course is designed to provide students with an understanding of how to enhance athletic performance with proper nutrition. Examines principles of nutritionally sound diets for endurance, speed and strength-related activities. Special nutritional needs will also be discussed (e.g., gaining muscle mass or lowering body fat content).

PEXS 5670 Research Design and Analysis (3 credits)—This course will emphasize the development and interpretation of research in the fields of kinesiology and sport management. Emphasis will be placed on comparing different research methods, statistical analysis techniques and interpretation as they relate to various topics in kinesiology and sport management. (fall, spring)

PEXS 5671 Secondary Physical 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 activity in the secondary school.

PEXS 5800 Internship in Fitness/Exercise Physiology (3 credits)—Prerequisite(s): Completed 30 credits in major. This course is designed to provide students with an actual work-site experience in the Fitness Leadership Concentration or a laboratory-oriented experience for students in the Exercise Physiology and Performance Concentration. (fall, spring)

PEXS 5911 Special Studies (1-3 credits)—This course is designed to provide flexibility in the graduate program by giving students an opportunity to study special problems which are of particular significance to them. Workshops are offered as special studies. (fall, spring)

PEXS 5912 Special Studies (1-3 credits)—This course is designed to provide flexibility in the graduate program by giving students an opportunity to study special problems which are of particular significance to them. Workshops are offered as special studies. (fall, spring)

PEXS 5957 Topics in... (1-6 credits)—Selected topics of current interest in physical education. Offered upon sufficient demand for specific subject matter. May be repeated for different topics. Consultation with the instructor is recommended before enrollment. (fall, odd years)

PEXS 5960 Thesis (3-6 credits)—A research project developed, written, and presented under the supervision and guidance of a faculty committee. This course is required and must be taken in the semester required. (fall, spring)

PEXS 5961 Capstone Project (3 credits) —A major creative, research, or service project developed under the supervision and guidance of faculty. Students will develop, write, and present a significant project that is logistically consistent with the concentration of study and utilized as part of their culminating experiences. (spring, even years)

PEXS 5977 Exercise Management (3 credits)—This course will examine chronic diseases and disabilities that occur in many individuals. It is oriented toward understanding the exercise prescription that may have on the diseases, and modifications to general exercise programs. (fall)

PEXS 5990 Readings and Research (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus must enroll for this course and register for 1-3 credits. The research or study may also be used, as approved by student’s advisor, in conjunction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Research credit does not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U). (as needed)

PEXS 6270 Sport Biomechanics (3 credits)—This course develops a foundation in the theoretical and practical skills involved in biomechanics including basic mechanical principles and application to sport and other human movement activities; analyzing movement by qualitative and quantitative measurement of video sequences; identification of key faults; devising strategies for improving technique; application of mechanical principles to the different sexes; and analyzing force plate data using computer software and explaining the significance of the results obtained.

PEXS 6280 Sport Skills and Tactics (3 credits)—Technical and biomechanical analyses of sport skills, exercises, and techniques in both sexes. Appropriate scheduling of skills/techniques used in a periodized approach to sport training. Content will be applicable for high school to master athletes to Olympic sport performances.

PEXS 6520 Instrumentation in Exercise and Sport Science (3 credits)—PEXS 6520 Instrumentation in Exercise and Sport Science (3 credits)—This course is designed to provide the student with an in-depth knowledge of the selection and operation of laboratory equipment used to measure performance, physiological and anthropometrical adaptations of the human body to exercise and sport training. Furthermore, students will analyze and report data collected from the various measurement techniques covered in this course. Identification and explanation of grant funding opportunities for procurement of equipment will be presented.

PEXS 6600 Sports Conditioning I (3 credits)—Theoretical foundations and practical experiences for the development of the training process to improve sports performance for both sexes. Topics include critical movements and strategies for developing and implementing strength and conditioning programs and periodized training.

PEXS 6610 Sport Physiology I: Muscle Metabolism and Hormonal Control (3 credits)—Prerequisite: PEXS 3610 or equivalent. A detailed assessment of the underlying mechanisms behind the acute physiological and biochemical responses to exercise, sport training, and sport performance as they relate to biochemical pathways, muscle physiology, neuromuscular control, endocrinology, and human performance. (fall, even years)

PEXS 6620 Sport Physiology II: Cardiovascular and Respiratory Physiology (3 credits)—Prerequisite(s): PEXS 4620 or equivalent. Underlying mechanisms behind acute cardio-respiratory responses to exercise and chronic cardio-respiratory adaptations to sport training and sport performance for trained, detrained, and master athletes, including mechanism alterations associated with changing environments. (spring, odd years)

PEXS 6650 Internship for Coaching (3 credits)—Prerequisite(s): PEXS 5500. In-depth study of the practical nature of coaching including the responsibility of coaches in the development of athletes, organization of practices, organization of competition, handling budgets, NCAA recruiting, and working with national governing bodies (NGB) and the USOC. (spring, even years)

PEXS 7000 Research Design and Statistics for Sport Science (3 credits)—Prerequisite(s): PEXS 5670 or equivalent. An in-depth study of the principles and methods of experimental design and data analysis as related to sport. The class includes discussions of experimental design dealing with hypothesis-generating research as well as true experimental designs. Comprehensive and detailed discussion of data analysis will include information related to validity, reliability, assessing variable relationships, and methods of determining statistical differences applicable to sport settings. Particular emphasis will be placed on understanding the importance of statistical analysis of athlete-monitoring programs and hypothesis-generating designs, including multiple single-subject designs and statistical process control analysis. (spring, even years)

PEXS 7010 Advanced Sport Nutrition and Ergogenic Aids (3 credits)—Prerequisite: PEXS 5657 or equivalent. Advanced study of the nutritional needs for various types of athletes (based on sport, sex and age) and in-depth discussions of ergogenic aids (environmental, nutritional, psychological, and pharmacological). Particular emphasis is placed on non-banned, safe and potentially effective aids that can enhance recovery and restoration including nutrient timing, vitamins, minerals, massage, ice therapy, and vitamins associated with the course requirements. (spring, even years)

PEXS 7020 Research in Sport Physiology I (3 credits)—Prerequisite: PEXS 6520, 6610 and 6620. Laboratory rotation course in which students actively participate in research of graduate faculty involving sport science projects. This course will acquaint the student with sport science monitoring and research from data collection to publication. Participants will attend and give research talks at
weekly journal club meetings on topics from the current literature using the skills and knowledge acquired during the rotations. (summer, odd years)

PEXS 7400 Internship in Sport Physiology and Performance (3-9 credits) — Prerequisite: EPEX 6520 and EPEX 7000. Hands-on coaching experiences with established professionals crafted to fit the goals of the student. This course will provide the student with an opportunity to integrate and apply skills learned in research and in the classroom by working directly (coaching) with specific intercollegiate teams or working in specific laboratory settings involving athletes. Repeatable for up to 9 credits. (360 total contact hours) (spring, odd years; summer, even years)

PEXS 7420 Research in Sport Physiology II (3 credits) — Prerequisite: PEXS 7020. This course builds on the laboratory rotation course (PEXS 7020) in which students actively participate in research of graduate faculty involving sport science projects. This course will advance the students’ skills and knowledge of specific sport conditioning and research from data collection to publication with their chosen faculty advisor. Participants will attend and give research talks at weekly journal club meetings on topics from the current literature using the skills and knowledge acquired during the laboratory rotations. (fall, odd years)

PEXS 7430 Seminar in Sport Science and Performance II (3 credits) — Prerequisite: PEXS 7000. Concurrent and collaborative on topics from the current literature in sport physiology and performance from scientists in the field and in related fields. The course includes a review of pertinent primary literature and in-depth discussion of research methods and practice. (summer, even years)

PEXS 7600 Sport Conditioning II (3 credits) — Prerequisite: PEXS 6600. Advanced study of sport conditioning and the integrated training process. Students integrate theory and practice of biomechanics, nutrition, and physiology to the development of a strength and conditioning program for a given athlete or sport. (spring, even years)

PEXS 7830 Seminar in Sport Science and Performance III (3 credits) — Prerequisite: PEXS 7430. This course is designed to evaluate the student’s ability to develop and deliver research-related material. Content includes presentation of each student’s research-in-progress for critique and an additional presentation of a literature review on another assigned topic. (fall, even years)

MALS 5100 Introduction to Interdisciplinary Study (3 credits) — An introduction to the nature and value of interdisciplinary study. Literature, scientific theories, philosophical, historical, and cultural constructs may be brought to bear on the study of interdisciplinary. (fall, spring)

MALS 5200 Seminar in Liberal Studies (3 credits) — An examination through an interdisciplinary approach of a major issue, historical period, or thematic study in the liberal arts. The particular subject will vary from semester to semester. May be coordinated with another in the department. (fall, spring)

MALS 5400 Seminar in Interdisciplinary Research (3 credits) — Prerequisites: MALS 5100. An introduction to and exploration of interdisciplinary research with an emphasis upon qualitative methodologies. Students may develop projects for MALS 5950: Special Project in Liberal Studies or MALS 5960: Thesis. (fall, summer)

MALS 5900 Independent Study (1-6 credits) — This course provides for independent study under the direction of an appropriate faculty member. Significant research grounded in interdisciplinary required. (fall, spring, summer)

MALS 5950 Special Project in Liberal Studies (3 credits) — Prerequisite: MALS 5400. Written application of knowledge and understanding gained in the MALS program. A creative or performance component is acceptable. (fall, spring, summer)

MALS 5960 Thesis (3 credits) — Prerequisites: MALS 5400. A research project developed and documented under the supervision of a faculty committee. The research project is documented in the form of a thesis. (fall, spring, summer)

MALS 5990 Readings and Research (1-3 credits) — Students who are not enrolled in other coursework may require the use of university facilities and/or materials for coursework, or for study, research, or preparation of a thesis. May enroll for Readings and Research. Variable credits (1-3) of Readings and Research may also be used as approved by student’s advisory committee in conjunction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U). (fall, spring, summer)

Mathematics (MATH)

MATH 5010 Problem Solving (3 credits) — Prerequisites: MATH 1420 or the equivalent. Examination of concepts and principles in algebra and geometry through pattern recognition and problem solving. (fall, even years as needed)

MATH 5015 Probability and Statistics for K-12 Teachers I (3 credits) — Prerequisite(s): MATH 1530 or the equivalent. Probability, simulation, sampling methods, elementary data analysis, statistical inference, correlation and regression, everyday use of statistics. (spring, odd years as needed)

MATH 5027 Introduction to Abstract Algebra (3 credits) — Prerequisite(s): 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 5040 Reasoning in Mathematics (3 credits) — Prerequisite(s): MATH 5202 or the equivalent. An introduction for teachers to mathematical arguments and reasoning. Topics treated will be drawn from logic, set theory, algebra, analysis, and geometry. (as needed)

MATH 5047 Mathematical Statistics I (3 credits) — Prerequisite(s): Mathematics 2050, 2110, and 2120. 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 5050 Analysis for Teachers (3 credits) — Prerequisite(s): MATH 5040 or the equivalent. A survey of elementary calculus extending to the fundamental concepts of analysis. (fall, odd years as needed)

MATH 5057 Mathematical Statistics II (3 credits) — Prerequisite(s): MATH 2110 and 4047 or 5047. A continuation of Mathematical Statistics I. An introduction to the theory of mathematical statistics, estimation and hypothesis testing. Topics will include efficiency, consistency, sufficiency, robustness, methods of estimation, confidence intervals as well as the Neyman-Pearson lemma, power functions, likelihood ratio tests, hypothesis tests and applications.

MATH 5060 Algebra for Teachers (3 credits) — Prerequisite(s): MATH 5040 or the equivalent. A survey of algebraic structures such as rings, integral domains, fields, and groups. (spring, even years as needed)

MATH 5070 Theory of Numbers (3 credits) — Divisibility, congruences, quadratic residues, Diophantine equations, and a brief treatment of binary quadratic forms.

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MATH 5090 Theory of Matrices (3 credits)—Prerequisite(s): MATH 2010. Vector spaces, linear transformations, matrices, and inner product spaces.

MATH 5127 Introduction to Modern Algebra I (3 credits)—Prerequisite(s): Mathematics 2010 and 2800. Introduction to the basic algebraic systems, including groups, rings, integral domains, and fields. (fall)

MATH 5137 Introduction to Modern Geometry I (3 credits)—Prerequisite(s): MATH 4127 or 5217. The study of rings is continued to include topics of factor rings, ideal theory, and factorization. The study of fields is expanded to include extension fields and splitting fields, time permitting. (fall, even years)

MATH 5157 Introduction to Modern Geometry II (3 credits)—Prerequisite(s): MATH 2250 and 2800 (or concurrent enrollment). An introduction to Euclidean and non-Euclidean geometries, emphasizing the distinction between the axiomatic characterizations and the transformational characterizations of these geometries. Some history of the development of the discipline will also be included. (fall)

MATH 5210 Real Analysis I (3 credits)—Prerequisite(s): MATH 4227 or 5227. The real number system, sequences, functions, Lebesgue measure, measurable functions, the Lebesgue integral, differentiation. (fall, spring, even years)

MATH 5217 Analysis I (3 credits)—Prerequisite(s): Mathematics 2210 and 2800. In a setting of the real numbers, a study of sets, functions on sets, algebra and order properties of the real numbers, sequences, sequences of functions, continuous functions, limits of functions, function approximation. (fall, spring, even years)

MATH 5220 Real Analysis II (3 credits)—Prerequisite(s): MATH 5210. Classical Banach spaces, metric spaces, topological spaces, Riesz Representation theory, Hilbert spaces, general measure and integration. (spring, odd years)

MATH 5227 Analysis II (3 credits)—Prerequisite(s): Mathematics 4217 or 5217. A study of differentiation and integration of functions, the Riemann-Stieltjes integral, series, series of functions, Fourier series. (spring)


MATH 5267 Numerical Linear Algebra (3 credits)—Prerequisite(s): Mathematics 2120, 2010, and Computer Science 1250. Direct and iterative techniques for solving systems of linear equations, curve fitting, and eigenvalue-eigenvector methods. (spring)

MATH 5310 Applications of Statistics (3 credits)—Prerequisite(s): Mathematics 1530 and 4047 or permission of instructor. Topics covered include statistical methods for various nonparametric procedures, regression, correlation, and analysis of variance. A course designed for the physical and social science students. (spring)

MATH 5307 Sampling and Survey Techniques (3 credits)—Prerequisite(s): Mathematics 1530 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. (fall)

MATH 5310 Differential Geometry I (3 credits)—Prerequisite(s): MATH 5227 or permission of instructor. Curves and frame fields in three dimensional Euclidean space, calculus on a surface, geometry of surfaces, intrinsic geometry of surfaces. (fall)

MATH 5327 Time Series Analysis (3 credits)—Prerequisite(s): MATH 2060 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. (fall)

MATH 5330 Axiomatic and Transfinite Combinatorics I (3 credits)—Prerequisite(s): MATH 1900, 2110, and 2800. Axiomatic set theory, transfinite arithmetic, cardinal and ordinal numbers. (spring)

MATH 5337 Complex Variables (3 credits)—Prerequisite(s): Mathematics 2120 and 2010. Complex numbers and their algebra, complex differentiation and integration, analytic and elementary functions, residues, and power series. (spring)

MATH 5340 Graph Theory and its Applications (3 credits)—Prerequisite(s): MATH 4347/5347 or consent of instructor. Topics include special classes of graphs, graphical invariants, connectivity and networks, extremal graph theory and heuristic graph algorithms. Proof techniques and algorithms for solving practical computing problems using graph theory will be investigated. (fall)

MATH 5347 Introduction to Graph Theory and Its Applications (3 credits)—Prerequisite(s): MATH 2800. Topics include graph theory and applications, trees, planar graphs, graphical invariants, and networks. (spring)

MATH 5357 Introduction to Topology (3 credits)—Prerequisite(s): MATH 2800. Open and closed sets, continuous functions, metric spaces, connectedness/continuity functions, metric spaces, connectedness/compactness, the real line, and the fundamental group. (spring)

MATH 5417 Teaching of Secondary Mathematics (3 credits)—Prerequisite(s): MATH 4127 or 5127, MATH 5127, or concurrent enrollment. (fall, spring, odd years)

MATH 5420 Modern Algebra II (3 credits)—Prerequisite(s): MATH 5410 or permission of instructor. Field theory, Galois theory, algebra over a field, ring theory. (spring, even years)

MATH 5450 Advanced Topics in Graph Theory (3 credits)—Prerequisite(s): MATH 5340. Advanced topics in graph theory will be presented. This course is designed to bring students to the forefront of current research in the field. (fall, even years)

MATH 5510 Complex Analysis I (3 credits)—Prerequisite(s): MATH 4127 or 5127. Laplace transform, Riemann surfaces. (spring, even years)

MATH 5520 Complex Analysis II (3 credits)—Prerequisite(s): MATH 5510. Residues and integration, harmonic functions, conformal mapping and applications, Laplace transform, Riemann surfaces. (spring, even years)

MATH 5610 Applied Mathematics I (3 credits)—Prerequisite(s): MATH 3200. Topics in ordinary differential equations, stability, special functions, boundary value problems, and calculus of variations. (fall, even years)

MATH 5620 Applied Mathematics II (3 credits)—Prerequisite(s): MATH 2120 or permission of instructor. Partial differential equations, Fourier series and integrals, numerical techniques. (spring, odd years)

MATH 5710 Statistical Methods I (3 credits)—Prerequisite(s): MATH 2110 and 2010. Elementary Statistics preferred. Population and samples, probability distributions, estimation and testing, regression and correlation analysis, and analysis of designed experiment. (fall, even years)

MATH 5720 Statistical Methods II (3 credits)—Prerequisite(s): MATH 5710 or permission of instructor. Analysis of variance and regression on dummy variables, residual analysis, surface methods, and variable selection, random sampling, reliability theory, and distribution free methods. (spring, odd years)

MATH 5810 Operations Research I (3 credits)—Prerequisite(s): MATH 2110 and 2010. Linear programming, duality theory and sensitivity analysis, special types of linear programs, and integer programming. (fall, odd years)

MATH 5820 Operations Research II (3 credits)—Prerequisite(s): MATH 5810, 2110, 2010, 5047, and 5057. Nonlinear programming, network theory, reliability theory, decision theory, probabilistic topics. (spring, even years)

MATH 5850 Numerical Analysis I (3 credits)—Prerequisite(s): MATH 1120, 2250, and CSCI 1250. Methods of numerical computation and error control, interpolation, numerical integration and differentiation.

MATH 5860 Numerical Analysis II (3 credits)—Prerequisite(s): MATH 5850 or permission of instructor. Solution of systems of linear and nonlinear equations, inversion of matrices, calculation of eigenvalues and eigenvectors, methods of fitting and smoothing data, and a selection of advanced topics. (fall, even years)

MATH 5900 Independent Study (1-6 credits)—For individual study of mathematical topics in fields of interest under the supervision of instructors. (every semester)

MATH 5957 Special Topics in Mathematics (1-6 credits)—Prerequisite(s): MATH 2120 and 2110. 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. (variable)

MATH 5960 Thesis (1-3 credits)—An investigation of a problem in mathematics that will lead to a thesis based upon the findings of the research. (every semester)

MATH 5990 Readings and Research (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus MUST enroll for credit. MATH 5990 is designed to be an extension of MATH 5957 for reading and research. May also be used, as approved by student’s advisory committee in conjunction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Readings and Research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U).

Mass Communications (MCOM)

MCOM 5010 Comparative Mass Media Systems (3 credits)—A comparative study of mass media systems operating in various parts of the world, highlighting their similarities and dissimilarities, through the examination of the distinctive environments in which they operate.

MCOM 5020 Media and Cultural Diversities (3 credits)—A study of the images of the cultural environment as seen through the mass media, and their impact on the cultivation of conceptions of majority and minority status.

MCOM 5030 Media and the First Amendment (3 credits)—Seminar concerned with the problems of communication freedom that arise out of special situational factors or due to the use of prohibited or controlled media, and the resultant impact of such situations on mass communications.

MCOM 5037 Communications Law (3 credits)—This course covers the legal aspects of the media of mass communications: constitutional law as foundation of the right to publish; freedom of information; the right to comment; privilege, property and contractual rights; defamation; invasion of privacy; criminal responsibility in defamation; news media and school or community; freedom from political, and contempt; administrative regulation; broadcasting and advertising.

MCOM 5040 Seminar in Mass Communications (1-6 credits)—Problems, concepts, and approaches to research in selected mass communication issues. May be repeated.
MCOM 5050 Public Opinion (3 credits)—Patterns of public opinion formation including their cultural social, and economic impact. Analysis of communication content and techniques involving public opinion and persuasion. (fall)

MCOM 5060 Seminar in Media Ethics (3 credits)—The course is an exploration of the literature in mass communication which examines ethics in the context of media practices and social responsibility. (fall)

MCOM 5070 Seminar in History of Mass Communication (3 credits)—Historical research approach to mass communication with emphasis on historical writings, the philosophy of history, and methods of data collection and analysis. Emphasis on United States mass media history. (fall)

MCOM 5900 Independent Study in Mass Communications (1-3 credits)—Directed study in areas of mass communications which may involve topics such as social roles as the media, legal, ethical, or political. (variable) (spring)

MCOM 5957 Topics in Mass Communications (1-6 credits)

MCOM 5960 Thesis (3-6 credits)—Prerequisite(s): Consent of instructor. A research project developed and written under the supervision of a faculty committee. (fall)

MCOM 5990 Readings and Research (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus MUST enroll for Readings and Research. Variable credits (1-3) of Readings and Research may also be used, as approved by student’s advisory committee in conjunction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study or research. Readings and Research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U).

Medical Education (MDED)

MDED 5010/6010 Biometry and Biomedical Computing I (3 credits)—Prerequisite(s): College Algebra. This course is a combination of lectures and computer laboratory sessions covering statistical data analysis implemented on microcomputers. Topics discussed include descriptive and inferential statistical methods for independent and dependent samples, one- and two-factor analysis of variance multiple comparison procedures, nonparametric analysis, binomial data analysis, and categorical data analysis. Computer applications are integrated into the course. Two hours per week of lecture and two hours per week of computer laboratory. (fall)

MDED 5020/6020 Biometry and Biomedical Computing II (3 credits)—Prerequisite(s): Biometry and Biomedical Computing I or permission of the instructor. This course is a combination of lectures and computer laboratory sessions presenting a variety of advanced statistical topics, as well as research applications of the computer. Topics cover the statistical analysis of complex data, randomized complete block, Latin square, split-plot, and repeated measures and experimental designs. Regression analysis includes the simplex linear, polynomial, and multiple regression and nonlinear regression. Computer use in physiological simulation, analogue/digital data conversion and computer communication protocols is discussed. Two hours per week of lecture and two hours per week of computer laboratory. (fall)

Medical Education and Medical Technology (MEDA)

MEDA 5000 History and Philosophy of Educational Media and Educational Technology (3 credits)—A web-based introduction to information science theory and fundamentals of educational technology and computing. The course examines the social, cultural, historical, and political ramifications related to information and to the invention, adoption, and diffusion of technology in education. (fall)

MEDA 5400 Technology in Teaching and Learning (3 credits)—Foundations of instructional technology appropriate to educational applications, including computers, other related media, and instructional design. Stresses knowledge, skills, and attributes needed to implement and manage technology in educational environments. Hands-on experience is provided through the course laboratory. Students plan, implement, and evaluate educational technology for use in education. (fall, spring, summer)

MEDA 5520 Essentials of Multimedia (3 credits)—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. (Cross-listed with CSCI 5517) (fall)

MEDA 5530 Computer-Based Authoring Systems (3 credits)—Prerequisite(s): MEDA 5520: senior standing in Computer Science or permission of instructor. 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. (spring)

MEDA 5540 Principles of Instructional Design and Production (3 credits)—Prerequisite(s)/Corequisite(s): MEDA 5700 and MEDA 5530. This course covers the principles of instructional design and production of instructional resources designed to meet client specifications. Computer-based media production and desktop presentations are included. (fall)

MEDA 5628 Children’s Materials (3 credits)—This course deals with the analysis, evaluation, and use of library media for children. It strives to relate these media to the needs and interests of children as well as to the school curriculum. (variable) (spring)

MEDA 5635 Basic Reference Materials (3 credits)—This course provides an introduction to the basic types of reference sources, their evaluation, and use. (variable) (fall)

MEDA 5637 Young Adult Materials (3 credits)—This course will survey a wide variety of young adult literature in many formats. Students will preview materials for educational, informational, and literary use by young adults. Course will also cover literary genres, award-winning literature, popular authors, critical selection and analysis, and knowledge of developmental stagings. Emphasis will be the application in the school library media setting. (fall)

MEDA 5640 Multicultural Materials for Children and Young Adults (3 credits)—An introduction to the area of cross-cultural literature through the examination of cultural pluralism and prejudice as manifested in literature and media for youth. This course will survey a wide variety of children and young adult literature in many formats. Criteria for the evaluation of multicultural content and ways to introduce multicultural media into library programs will be explored. (summer)

MEDA 5680 Organizations and Administration of Instructional Technology Programs (3 credits)—This course deals with the organization, administration, evaluation, and implementation of instructional technology programs and services for education and training. (fall)

MEDA 5685 Online Information Services (3 credits)—This course offers an exploration of analysis, design, development, and online implementation of various online database. Administrative and other related issues will be addressed. Extensive online searching will be required. (summer)

MEDA 5700 Instructional Role of Educational Media and Educational Technology (3 credits)—Introduction to the skills of teaching as they relate to the school library media setting and to the use of educational technology. Students will learn how to design, develop, and evaluate an appropriate unit of instruction; develop and conduct a needs assessment; identify learning objectives; analyze learner characteristics; employ instructional strategies; and conduct evaluations. Field Experience Required: (fall)

MEDA 5710 School Library Media Program Development and Management (3 credits)—Prerequisite: MEDA 5720. Roles, functions, and organization of school library media programs: administrative aspects, professional responsibilities, systematic program planning and evaluation, building instructional team partnerships with teachers and others, and integration of technology into the curriculum. Management of operational aspects of school library media centers, including program development facilities, budget, personnel, materials, and equipment. Field Experience Required: Ten (10) Hours. (spring)

MEDA 5715 Instructional Role of the School Library Media Specialist (3 credits)—Prerequisite: MEDA 5720. Exploration of the professional role of the school library media specialist in teaching and learning. Examines relationship of learning theories, curriculum design, and information literacy standards. Field Experience Required: Ten (10) hours.

MEDA 5720 Organization of Library Media (3 credits)—An introduction to descriptive cataloging, classification, and subject analysis. Cataloging and processing book and non-book materials using integrated library system software. Emphasis will be on the organization of information in a school library environment. Classes will be a combination of lecture and in-class exercises. Field Experience Required: Ten (10) Hours. (fall)

MEDA 5750 Information and Records Management (3 credits)—An introduction to the role and functions of the information manager in educational organizations with emphasis on use, retention, and management of information and records. (spring)

MEDA 5860 Information Networks-Resource Sharing (3 credits)—Identification and evaluation of information networks in libraries and other educational settings. Focuses on the nature of networks including hardware and software applications. Field Experience Required: Five (5) Hours. (fall)

MEDA 5850 Organizing and Managing Content on the Internet (3 credits)—Integration, organization, and management of information content as it related to the design of Web pages. Basic ftp, server, and HTML commands and functions, as well as popular authoring programs, will be utilized to design, develop, and organize projects. (summer)

MEDA 5900 Independent Study (1-3 credits)—An independent study involving the supervision of a designated faculty advisor. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U). (every semester)

MEDA 5925 Practicum/Internship/Enhanced Student Teaching (5 credits)—Prerequisite: MEDA 5910. The culminating experience for the School Library Media Concentration. The practicum experience involves student participation in a professional field work setting under the supervision of a designated on-site supervisor and the university practicum director. Students will complete a practicum of at least 200 hours, a full-year internship, or an enhanced student teaching semester, depending upon their needs for state licensure. The practicum is built on the standards set forth in Information Power: Building Partnerships for Learning (AASL/AECT, 1998) in four critical content areas: (1) Use of Information
and Ideas, (2) Teaching and Learning, (3) Collaboration and Leadership, and (4) Program Administration. (fall, spring)

**MEDA 5930 Practicum with Seminar in Educational Communications and Technology** (2 credits)—The culminating experience for the Educational Communications and Technology Concentration. Students will complete a practicum of at least 30 hours, working in coordination with a site supervisor and an Educational Media and Educational Technology faculty member. (fall, spring)

**MEDA 5930 Qualitative Analysis in Media and Educational Technology** (3 credits)—Introduction to the research process, including problem identification, hypothesis testing, data collection, analysis and interpretation of results. Emphasis on research methods and critical evaluation of reported research in the fields of school media and educational technology. (fall)

**MEDA 5957 Topics in Media Services** (1-6 credits)—Prerequisite(s): Dependent on subject matter. Selected topics of current interest in media services. Offered upon sufficient demand for specific subject matter. May be repeated for different topics. Consultation with the instructor is recommended before enrollment. (summer)

## Management (MGMT)

**MGMT 5010 Essentials of Management** (3 credits)—This course introduces students without business backgrounds to the fields of management and organizational behavior. It focuses on essential behavioral and structural processes in organizational design and organizational change and development.

**MGMT 5020 Legal and Social Responsibility** (3 credits)—A survey of legal concepts affecting business for students who have not recently taken courses in business, legal environment, or governmental regulation. Coverage includes civil law, legal topics, and laws on pricing, environmental protection, consumer protection, securities, equal employment opportunity, and social issues of social responsibility and ethical behavior.

**MGMT 5148 Quantitative Analysis for Operations Management** (3 credits)—Prerequisite(s): ECON 5101 and MGMT 5010 or equivalent. A study of topics related to quantitative analysis of management decisions, including mathematical programming, inventory control, waiting line analysis, and network planning and control methods. The computer is heavily utilized as a problem-solving tool. A working knowledge of computer applications and commonly used software packages is assumed.

**MGMT 5112 Supply Chain Management** (3 credits)—Prerequisite(s): Graduate Standing. A comprehensive course dealing with an analysis and management of efficient business organizations that improve competitiveness in the global marketplace. Issues dealing with resource flows throughout the supply chain will be discussed through lectures, case analysis, and simulations. Supply Chain Management is meant to provide the student with a sound, basic knowledge and understanding of the systems and techniques for planning and managing supply chains in the manufacturing and service sectors. Further, it will provide the student with an understanding of the need to make strategically sound decisions concerning these supply chains.

**MGMT 5217 Service Operations Management** (3 credits)—Prerequisite(s): MGMT 5101 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 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, computer-integrated manufacturing, and shop scheduling.

**MGMT 5327 Decision Modeling and Simulation** (3 credits)—Prerequisite(s): CSCI 1010 and MGMT 3100. Concepts and methods for building and processing models which produce information about the behavior of complex organizational systems to support management decisions. Topics include: simulation of inventory and queuing systems, flow-graphs, process generators, GPSS, management planning, and network models.

**MGMT/PUBH 5401 Rural Health Issues** (3 credits)—Prerequisite(s): Permission of the instructor. This interdisciplinary course addresses contemporary issues relevant to the delivery of health care in rural areas, particularly those of Appalachia. The course focuses on rural communities and is taught in a problem-solving, case-project format with interdisciplinary team presentations and discussions.

**MGMT/PUBH 5525 Health Services Delivery** (3 credits)—Prerequisite(s): PUBH 5500 or permission of the instructor. This course focuses on the identification and analysis of factors and interrelationships which influence the operation of health care organizations with specific attention to local health departments, hospitals, multi-institutional systems, integrated health systems, and strategic alliances. These organizations will be viewed and discussed comparatively with other types of health service agencies.

**MGMT/NRSE/PUBH 5350 Health Care Organizations and Law** (3 credits)—Prerequisite(s): Permission of instructor. This interdisciplinary course is part of the Health Care Management Certificate Program that is totally online. The focus of the course is to provide an overview of the role of law in the health care system for health care administration.

**MGMT 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.

**MGMT/NRSE/PUBH 5550 Human Resources Management** (3 credits)—This course focuses on the role and concepts required in managing people in health service organizations as well as on the human resource implications of changes in the external environment. This course focuses on the technical aspects of human resource management as well as the managerial skills required to manage people.

**MGMT/NRSE/PUBH 5551 Human Resource Certification** (3 credits)—Prerequisite(s): The student must be a human resource professional and hold the human resource certification. The purpose of this course is to provide an overview of the field of human resource management to those in the HR profession who are interested in obtaining certification to work in the field of human resource management.

**MGMT/NRSE/PUBH 5557 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.

**MGMT/NRSE/PUBH 5590 Strategic Planning for Health Care** (3 credits)—Prerequisite(s): PUBH 5505 and/or permission of the major advisor. This course applies the concepts of strategic planning within the context of the health care industry. Issues associated with competing in a changing health care environment are explored with a focus on the development of solutions to problems associated with this change. The strategic management of health care delivery will be addressed from a variety of perspectives, ranging from those of the insurance industry, to public health facilities, to large health care networks, to small practices of health care providers.

**MGMT 5617 Small Business Management** (3 credits)—Prerequisite(s): MGMT 5010 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 5667 Environmental Law for Business** (3 credits)—Prerequisite(s): MGMT 3000 or MGMT 5020 or equivalent. This 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 will also be introduced to the technical aspects of environmental legislation most affecting business operations and the manager’s role regarding compliance issues.

**MGMT 5900 Independent Study in Management** (1-3 credits)—A course designed for graduate 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 required.

**MGMT 5957 Topics in Management** (1-6 credits)—Prerequisite(s): Senior or graduate standing and permission of instructor. This course gives students an opportunity to study special problems and new developments in the field of management.

**MGMT 5990 Readings and Research** (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty of a review of a particular topic of interest. Students must be prepared to participate in discussion. This course can be taken for credit repeatedly. (fall, spring)

**MICR 5350/6350 Molecular Immunology** (3 credits)—Prerequisite(s): Biomedical Science I-IV or permission of the instructor. This graduate course will provide a comprehensive overview of the molecular basis of the immune system. Topics covered will include the structure, function, and genetic regulation of proteins involved in immune response, cytokines and mechanisms of cellular activation. Although previous coursework in immunology is recommended, students without such experience may be enrolled with permission of instructor. (fall)
**MICR 5362/6362 Molecular Virology** (3 credits)—Prerequisite(s): BIOM 5010/6010, 5020/6020 and MICR 5000/6000 or permission of the instructor. Offered in alternating spring semesters; meets 6 hours/week for ½ semester. A lecture and discussion course taught largely from the primary literature. This course covers molecular biologic aspects of the viral lifecycle as well as virus-host interactions, viral evolution, viral transmission and pathogenesis. Experimental approaches used to study these aspects of virology are particularly stressed. (5362 - spring; 6362 - spring)

**MICRO 5462/6462 Bacterial Genetics** (3 credits)—This course will examine bacterial genetics focusing on molecular mechanisms. Experimental approaches used to dissect complex biological phenomena will be particularly emphasized. The course is designed to be useful for those who study bacterial systems as well as those who use bacterial systems as tools for investigating eukaryotic systems. This half-semester course is designed to complement the Molecular Virology course given the second half of the semester and will focus on prokaryotic systems. The classes will be split between presented material and discussion of papers from the primary literature. (spring)

**MICR 5500/6500 Special Topics in Microbiology** (2 credits)—Prerequisite(s): Permission of the instructor. Lecture course on areas of special interest to microbiologists; e.g., RNA viruses, comparative immunity, special groups of bacteria, etc. This course can be taken repeatedly for credit with different topics. Two lectures per week. (fall, spring, summer)

**MICR 5900/6900 Special Problems in Microbiology** (1-5 credits)—Prerequisite(s): Permission of the instructor. Research projects of limited scope to allow the student to develop certain skills or establish a specific interest in a research area. Open to research laboratory, (fall, spring, summer)

**MICR 5960 Microbiology Thesis Research** (1-3 credits)—Supervised research toward thesis. (fall, spring, summer)

**MICR 5990 Readings and Research** (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for study, research, or preparation of a prospectus MUST enroll for Readings and Research. Variable credits (1-3) of Readings and Research may also be used, as approved by student’s advisory committee in conjunction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Readings and Research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U). (fall, spring, summer)

**MUSC 5200 Advanced Microbiology Seminar** (2 credits)—Presentations of selected topics of interest by advanced students and faculty. Required student preparation for participation in discussion. This course may be repeated for credit. (fall, spring, summer)

**MUSC 6300 Immunology** (2 credits)—Prerequisite(s): Permission of the instructor. An introduction to immune phenomena including recognition, production of antibody, cellular basis of antibody production, delayed hypersensitivity, and allergic phenomena. Two credits lecture. (fall)

**MUSC 6800 Microbial Pathogenesis** (3 credits)—Prerequisite(s): BIOM 5010/6010, 5020/6020, and MICR 5000/6000 or permission of the instructor. The objective of this course is to encourage students to the current understanding of microbial pathogenesis in humans. Topics will focus on how pathogens modify, disrupt, and utilize cellular functions for their own purposes. The significance of these interactions in terms of both pathogenesis and host cell biology will be discussed. The format will consist of a combination of lectures, critical readings of the primary literature, and student presentations. Heavy emphasis will be placed on student participation. (alternating spring semesters) (fall, spring, summer)

**MUSC 7960 Microbiology Dissertation Research** (1-12 credits)—Supervised research toward thesis. Generally up to 12 credits; exceptionaly up to 18 credits. (fall, spring, summer)

**MUSC 7990 Readings and Research** (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus MUST enroll for three credits of Readings and Research. Variable credits (1-3) of Readings and Research may also be used, as approved by the student’s advisory committee in conjunction with other coursework, to receive credit for such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Grading of Readings and Research will be either satisfactory (S) or unsatisfactory (U). (fall, spring, summer)

**Marketing (MKTG)**

**MKTG 5010 Essentials of Marketing** (3 credits)—A survey course of contemporary marketing theory and practice. Basic elements of marketing strategy are examined with consideration of the constraints imposed by the marketing environment and consumer behavior.

**MKTG 5111 E-Marketing** (3 credits)—Prerequisite(s): Graduate Standing. A comprehensive course dealing with an approach to develop a general framework to enable the design of Internet marketing programs. The course will illustrate that Internet marketing programs must be integrated with an overall marketing effort. The e-Marketing course is meant to provide the student with an understanding of how to think about and implement Internet marketing, as well as providing the student with a focus on the best of both academic theory and the practice of Internet marketing.

**MKTG 5217 Health Care Marketing** (3 credits)—Prerequisite(s): MKTG 5010 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 information systems, and making marketing decisions in a health care context. (spring)

**MKTG 5217 Marketing Research**—Prerequisite(s): MKTG 5010 and ECON 5010 or equivalents. A study and application of the research process and techniques used in marketing research. Project planning and design, data collection and analysis, and the preparation of research reports are emphasized through lecture and class projects. (spring)

**MKTG 5900 Independent Study in Marketing** (1-3 credits)—A course designed for graduate 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.
the beginning piano student. Students will plan, implement, and evaluate instruction. Meets one clock hour per week.

MUSC 5810 Suzuki Philosophy (2 credits)—Identifies and outlines the basis of the Suzuki method of teaching music. Biannually.

MUSC 5820 Advanced Suzuki Pedagogy (2 credits)—Focuses on the pedagogical techniques of the Suzuki method of teaching music. May be repeated for credit. Fall, spring.

MUSC 5873 Administration of Suzuki Programs (2 credits)—Administration of the entire Suzuki program including recruitment, curriculum, and public relations. Biannually.

MUSC 5840 Teaching Practicum I (1 credit)—Teaching Practicum I should be taken concurrently with either Suzuki Pedagogy or Suzuki Philosophy as a practical experience of these courses. May be repeated for credit. Fall, spring.

MUSC 5850 Teaching Practicum II (1 credit)—Prerequisite(s): MUSC 5840 or permission of the instructor. Teaching Practicum II should be taken concurrently with either Suzuki Pedagogy or Suzuki Philosophy as a practical experience of these courses. May be repeated for credit. Fall, spring.

MUSC 5860 Introduction to Suzuki in the School (2 credits)—Outlines the relationships between the Suzuki method of teaching music and traditional school music programs. The student learns to integrate the Suzuki method into the school music classes. Biannually.

MUSC 5907 Special Topics in Music (1-6 credits)—Prerequisite(s): Contract must be on file prior to registration. Contact available in Mathes 100. Individual instruction and research in topics pertaining to music. Every semester.

MUSC 5960 Thesis (1-3 credits)—The thesis will demonstrate research into some aspect of music education. Every semester.

MUSC 5990 Readings and Research (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus MUST enroll for Readings and Research. Variable credits (1-3) of Readings and Research may also be used, as approved by student’s advisory committee in conjunction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Readings and Research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U).

Nutrition and Foods (NTFD)

NTFD 5410 Seminar in Nutrition (1 credit)—A study of contemporary research and theory through the utilization of student seminar presentations, and review of current scientific and professional journals in nutrition, medicine, and management. New trends and developments will be discussed and analyzed in-depth. (every semester) (may be repeated)

NTFD 5415 Professional Issues in Dietetics (1 credit)—Prerequisite(s): NTFD 5440; Corequisite(s): NTFD 5450. This course provides a basis for ethical and professional practices of the dietetics practitioner. Topics include licensure, ethics, requirements for professional development, legislative issues, and professional organizations.

NTFD 5420 Maternal-Child Nutrition (3 credits)—Prerequisite(s): Admission into program or consent of instructor. In-depth instruction in all phases of nutritional care of pregnant, lactating or post-partum women, infants, children, and adolescents. Includes principles of nutritional requirements and application of research findings with special emphasis on those in complex situations and/or at high nutritional risk; classroom discussion of current research and cases.

NTFD 5421 Lifespan Nutrition Practicum (2 credits)—Prerequisite: Admission into program and completion of NTFD 5420, 5430 and 5450. Clinical experiences in all phases of nutritional care across the lifecycle. A minimum of 24 hours/week of experience in area health care facilities is required.

NTFD 5430 Complex Adult Nutritional Care (4 credits)—An in-depth study of the pathology, assessment, diagnosis and medical nutrition therapy related to diabetes mellitus, cardiovascular disease, diseases of the gastrointestinal tract, liver and accessory organs of digestion. Will cover basic formulation of tube feedings. Will also briefly cover nutrition care process, screening, assessment, nutrition diagnosis and intervention.

NTFD 5431/32/33 Medical Nutrition Therapy Practicum I, II, III (2 credits each)—Prerequisite(s): Admission into program and completion of FACS 5430 and 5450. Clinical experience in all phases of nutrition care planning, assessment, intervention, and monitoring. A minimum of 32 hours/week will be spent in the clinical setting with patients and the interdisciplinary health care team.

NTFD 5440 Nutrition Programs: Theory to Application (4 credits)—Prerequisite: Admission into the clinical nutrition program and completion of FACS 5430 and 5450. This course provides a comprehensive overview of nutrition programs at the local, state, and federal level. There will be an opportunity to plan, develop, implement, and evaluate nutrition programs at the local/regional level. The course also offers a practicum experience in community nutrition settings and in the Dept. of Health.

NTFD 5447 Nutritional Biochemistry (3 credits)—Prerequisite(s): NTFD 5465; HSCI 2020/2021. A study of nutrition as the science that integrates life processes from the cellular level on through the multi-system operation of the total organism. The focus will be on current trends in normal biochemical and physiological human nutrition. (fall)

NTFD 5450 Advanced Nutrition Therapy (4 credits)—Prerequisite: Completion of FACS 5430. An in-depth study of the pathology, assessment, diagnosis and medical nutrition intervention related to hypermetabolic conditions and diseases. Course will cover nutritional therapy of renal disease, cancer, AIDS, neurological disease, pulmonary disease, multisystem organ failure, sepsis, trauma, wounds and burns.

NTFD 5451-5452 Nutrition and Food Service Management Practicum I, II (2 credits each)—Prerequisite(s): Admission into program and completion of FACS 5450. Practical experience in management of food service operations. A minimum of 32 hours/week will be spent in management functions in health care or school food service facilities.

NTFD 5467 Special Topics (1-6 credits)—Selected subjects in student's area of interest in areas not included elsewhere in course offerings; may be repeated for credit when content varies.

NTFD 5960 Thesis (1-6 credits)

NTFD 5990 Readings and Research (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus MUST enroll for Readings and Research. Variable credits (1-3) of Readings and Research may also be used, as approved by student's advisory committee in conjunction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Readings and Research credits do not count toward degree requirements.

Nursing (NRSE)

NRSE 5000 Conceptual Systems for Advanced Nursing Practice (3 credits)—The philosophical dimensions of the processes of ways of knowing and conceptualization which are linked to research and practice are introduced. Analysis and evaluation of nursing and related concepts, theories, and models are correlated with the theory development, research, and practice. (fall)

NRSE 5001 Nursing Research and Design (3 credits)—Prerequisite(s): Admission to the graduate program or permission of instructor. This course includes the study of methodology of research in nursing and health, evaluation of research design, and models of research utilization that guide the implementation of research in practice. Emphasis is placed on generating research questions from theory and practice, designing research, and evaluating research and evidence for use in practice. (spring)

NRSE 5002 Policy and Ethics in Advanced Nursing Practice (3 credits)—An overview of ethics and health care policy in the United States and the implications for nurses, nursing, and health care delivery. Ethical decision-making process is applied. (fall)

NRSE 5004 Seminar in Professional Roles (1 credit)—Issues and concepts inherent in various advanced practice roles are explored, analyzed, and evaluated. Discussion will focus on issues generated by role conflict and ambiguities in practice. Topics which promote the development of negotiation, entrepreneurial, contract development, and financial management skills will also be addressed in relation to the practice roles of care-giving, collaborating, consulting, teaching, investigating, advocacy, and leadership. (fall)

NRSE 5009 Health Assessment Throughout the Life Span (3 credits)—Corequisite(s): NRSE 5010. Advanced health assessment focuses on the assessment of the total health status of individual and family clients throughout the life span. Emphasis is placed on the decision-making processes to differentiate normal from abnormal health status. Content includes predictable pathological findings and the mechanisms underlying them. (fall)

NRSE 5010 Health Assessment Throughout the Life Span Practicum (3 credits)—Corequisite(s): NRSE 5009. This practicum provides the student with opportunities to conduct advanced health assessment focusing on the assessment of the total health status of individual and family clients throughout the life span. Emphasis is placed on the decision-making processes which differentiate normal from abnormal health status. The practicum includes extensive laboratory practice and clinical placements. (fall)

NRSE 5911 Life Span Assessment and Clinical Management: Young and Middle Adults (3 credits)—Prerequisite(s): NRSE 5009, 5000, and, 5010; Prerequisite(s)/Corequisite(s): NRSE 5016 and 5018. This practicum focuses on the health and illness problems experienced by young and middle adults. Emphasis is placed on the decision-making processes which differentiate normal from abnormal health status. The practicum includes extensive laboratory practice and clinical placements. (spring)

NRSE 5912 Life Span Assessment and Clinical Management: Young and Middle Adults Practicum (3 credits)—Prerequisite(s): NRSE 5000, 5009, and 5010; Prerequisite(s)/Corequisite(s): NRSE 5016 and 5018. This practicum is designed to provide the student with opportunities to apply theoretical and/or scientific knowledge to health and illness care of young and middle adults in underserved, rural, and urban populations. Clinical experiences include direct care in managing clients with selected minor illnesses and chronic health problems as well as developmental problems specific to this population group. (spring)
NRSE 5013 Life Span Assessment and Clinical Management: Older Adults (3 credits)—Prerequisite(s): NRSE 5000, 5009 and 5010; Prerequisite(s)/Corequisite(s): NRSE 5016 and 5018. This course focuses on nursing and health care management of the older adult in underserved, rural, and urban populations. Course content includes physiological, pathologic, and psychosocial changes relative to problems of health maintenance, minor acute illnesses, chronicity, and life transitions. Emphasis is given to intervention and evaluation strategies which enhance effective and indirect care coordination of services for older adults and their families. (summer)

NRSE 5014 Life Span Assessment and Clinical Management: Older Adults Practicum (3 credits)—Prerequisite(s): NRSE 5000, 5009, 5010, and 5016; Prerequisite(s)/Corequisite(s): NRSE 5053. This course is designed to provide the student with opportunities to deliver advanced nursing care to older adults, including the underserved, in rural and urban settings. Clinical practice focuses on interdisciplinary teamwork for maintaining function through multidimensional assessment, treatment, follow-up, and evaluation. (summer)

NRSE 5016 Pathophysiology Foundations for Diagnoses and Interventions (3 credits)—Prerequisite(s): Admission to graduate study or permission of instructor. This course is a study of the reaction of the body as a whole to disease throughout the life span. The focus is on alterations in biological processes which affect the body’s dynamic equilibrium and a conceptual approach that is designed to integrate knowledge from the basic and clinical sciences. Alterations at the cellular and organ level are presented. These alterations include metabolic, infectious, immunologic, degenerative, and neoplastic processes.

NRSE 5018 Advanced Clinical Pharmacology (3 credits)—Prerequisite(s): Admission to graduate study or permission of instructor. An advanced pharmacologic and therapeutics course specifically designed for the student in a nurse practitioner program. The course provides an intense exploration of pharmacological agents used to treat common recurrent health problems of clients across the life span. Indications, contraindications, and interactions of pharmacological agents most utilized in acute, ambulatory, and long-term care health care settings will be presented. The professional role of the nurse practitioner in relation to prescriptive authority will be examined. (fall)

NRSE 5019 Supervised Experience in Teaching (1 credit, repeatable)—This is a required course for graduate assistants or tuition scholars with teaching assignments. This course is designed to provide graduate assistants with supervision and training opportunities that serve to integrate their graduate assistantship assignment and graduate program or professional goals and activities. It is offered on a S/U basis and is not counted as degree credit. (fall, spring)

NRSE 5020 Case Management Practicum (3 credits)—Prerequisite(s)/Corequisite(s): ALNJU 5021. This course focuses on the implementation of the case management role. The student will have the opportunity to practice case management with selected clients in a variety of settings appropriate to the student’s area of study. The student will gain experience in evaluating different philosophies and methods of case management implementation. (spring)

NRSE 5021 Life Span Assessment and Clinical Management: Women’s Health (2 credits)—Prerequisite(s): NRSE 5000, 5009 and 5010. This course focuses on the current and evolving role of the professional in case management in the managed care environment. Dimensions of the case management role will be examined from the perspective of the original and oral and written presentation of nursing care and its clients. Students will have the opportunity to explore the process of case management from a variety of theoretical perspectives, understand the practical aspects of case management as well as the emerging trends in health care delivery.

NRSE 5022 Life Span Assessment and Clinical Management: Women’s Health Practicum (3 credits)—Prerequisite(s): NRSE 5000 and 5010. The focus of this practicum is delivery of advanced nursing care to women. Various clinical settings with underserved, rural, and urban populations will be employed for clinical practice. The role of an advanced nurse generalist in case management is undertaken by the student, in collaboration with nursing faculty and clinical preceptors. The student will provide care, coordinate services, and collaborate with others as appropriate.

NRSE 5023 Life Span Assessment and Clinical Management: Children and Adolescents (3 credits)—Prerequisite(s): NRSE 5000, 5009, and 5010; Prerequisite(s)/Corequisite(s): NRSE 5016 and 5018. The focus of this course is on nursing care of families with children and adolescents who are experiencing health and developmental transitions. Biopsychosocial aspects of growth and development, health status, and environmental interactions are explored. The role of the nurse at an advanced level of practice in rural, urban, and underserved populations will be employed for clinical practice. The role of an advanced practice nurse is undertaken by the student in collaboration with nursing faculty and clinical preceptors. (spring)

NRSE 5024 Life Span Assessment and Clinical Management: Child and Adolescent Practicum (3 credits)—Prerequisite(s): NRSE 5000, 5009, and 5010; Prerequisite(s)/Corequisite(s): NRSE 5023, 5016, and 5018. This practical is designed to provide the student with opportunities to deliver advanced nursing care to children and adolescents in families and communities. Various primary care settings, including rural, urban, and underserved populations will be employed for clinical practice. The role of an advanced practice nurse is undertaken by the student in collaboration with nursing faculty and clinical preceptors. (spring)

NRSE 5027 Health Care Law (3 credits)—This course focuses on the influence of state and federal laws and ethics on patients, practitioners and practice settings. (variable)

NRSE 5029 Supervised Experience in Research (1 credit, repeatable)—This is a required course for graduate assistants or tuition scholars with research assignments. This course is designed to provide graduate assistants with supervision and training opportunities that serve to integrate their graduate assistantship assignment and graduate program or professional goals and activities. It is offered on a S/U basis and is not counted as degree credit. (fall, spring)

NRSE 5031 Care of the Older Adult in Structured Settings (3 credits)—Prerequisite(s)/Corequisite(s): NRSE 5016, 5018 and 5031. This course focuses on the clinical practice of nursing and health care management of the older adult in acute, extended, and long-term care settings in rural and urban areas. Emphasis is given to differential diagnosis and treatment of common complex problems. (spring)

NRSE 5032 Practicum in the Care of the Older Adult in Structured Settings (3 credits)—Prerequisite(s): NRSE 5000, 5009, and 5010; Prerequisite(s)/Corequisite(s): NRSE 5016, 5018 and 5031. This course focuses on the clinical practice of nursing and health care management of the older adult in acute, extended, and long-term care settings. Content includes issues that arise with institutionalization, techniques to maintain autonomy and function, as well as regulatory, reimbursement, and ethical issues that affect older adults in structured settings. (spring)

NRSE 5035 Essentials of Nursing Education: the Macroscopic Perspective (3 credits)—Prerequisite: Educational Theories course. Provides the conceptual foundation for the practice of nursing education at various levels and across settings.

NRSE 5038 Pharmacology and Therapeutics for Older Adults (2 credits)—Prerequisite(s): NRSE 5018. A specialized geropharmacology course for the Graduate-level nursing student that provides concentrated study in the art and science of safe and appropriate pharmacological management of the health needs of older adults. (spring)

NRSE 5039 Supervised Experience in Administration or Service (1 credit, repeatable)—This is a required course for graduate assistants or tuition scholars with administrative or service assignments. This course is designed to provide graduate assistants with supervision and training opportunities that serve to integrate their graduate assistantship assignment and graduate program or professional goals and activities. It is offered on a S/U basis and is not counted as degree credit. (fall, spring)

NRSE 5200 Policy and Ethics: Advanced Nursing Practice (3 credits)—Prerequisite: Admission to the master’s nursing program or permission of the instructor. An overview of ethics and health care policy in the United States and the implications for nurses, nursing, and health care delivery. Ethical decision-making process is applied.

NRSE 5210 Advanced Pharmacology for Non-Prescribers (3 credits)—Prerequisite: Admission to Graduate Program or permission of instructor. The course significantly expands on foundational knowledge of pharmacological agents used to treat health problems of client groups of all ages. Emphasis is placed on indications, contraindications, interactions, delivery methods, and desired clinical outcomes for the various agents.

NRSE 5220 Population-Based Clinical Nursing Care (3 credits)—Prerequisite: Admission to the Graduate Program. Students will have the opportunity to use population-based science including biostatistics and epidemiology to explain patterns of health and illness. Students will learn to use aggregate data sets to assess needs of a select population, develop nursing interventions, and evaluate the quality of client care.

NRSE 5267 Nursing Management of the Critically Ill Adult (3 credits)—Prerequisite(s): Current R.N. Licensure, or permission of the instructor; an arrhythmia or dysrhythmia course. Comprehensive, systems-based nursing care of the critically ill adult utilizing the nursing process with emphasis on health maintenance and restoration concepts, client and family psychosocial issues, and ethical–legal issues. (elective)

NRSE 5303 Psychopharmacology (3 credits)—Prerequisite(s): Admission to the master’s nursing program or permission of instructor. This course is designed to familiarize health profession students with the basic principles of psychopharmacology and to explore medications used to treat psychiatric disorders. The physiological basis of mental illness will be reviewed and the pharmacologic, pharmacodynamic principles of medications used in mental health care examined.

NRSE 5402 Behavioral Health Concepts for Adults (3 credits)—Prerequisite(s): Admission to the graduate nursing program or permission of instructor. This course is designed to provide advanced practice nurses with the necessary knowledge base to provide care for adults and their families experiencing complex behavioral health problems. Content will emphasize critical thinking and decision-making skills through the application of developmental, biological, interpersonal, and intrapersonal theory to behavioral health care nursing. (variable)

NRSE 5404 Advanced Psychiatric Nursing Care I (3 credits)—Prerequisite(s): NRSE 5000, 5009, 5010, 5016, and 5018. This course will provide a foundation for the use of diagnostic reasoning and advanced therapeutics in the specialty care of individuals experiencing a psychiatric disorder and their families.
NRSE 5405 Advanced Psychiatric Nursing Care I: Practicum (3 credits)—
Prerequisites: NRSE 5009, 5010, 5016, and 5018. Corequisite: NRSE 5404. This course provides students with an opportunity to apply their specific knowledge and skills, and develop clinical judgment in the specialized care of individuals experiencing a psychiatric disorder and their families. (spring)

NRSE 5408 Advanced Psychiatric Nursing Care II (3 credits)—
Prerequisite(s): NRSE 5404. This course will focus on the integration of the advanced practice psychiatric nursing care of patients with mental health concerns. Topics include assessment and treatment of psychiatric disorders, patient education, and community resources. (summer)

NRSE 5409 Advanced Psychiatric Nursing Care II: Practicum (3 credits)—
Prerequisite(s): NRSE 5404 and 5405. Corequisite(s): NRSE 5409: This course will provide students with a variety of clinical experiences in diverse settings in order to provide a foundation for implementation of the role of psychiatric nurse practitioner within the larger context of health care. (summer)

NRSE 5410 Interpersonal Treatment Modalities (3 credits)—
Prerequisite(s): NRSE 5404. This course provides students with a conceptual theory-base for implementing advanced practice psychiatric nursing psychotherapy interventions. (fall)

NRSE 5411 Interpersonal Treatment Modalities: Practicum (3 credits)—
Prerequisite(s): NRSE 5404. Corequisite(s): NRSE 5411: This course will focus on the role of the advanced practice psychiatric nurse in the larger context of health care administration. (summer)

NRSE 5501 Leadership in Nursing Administration (1 credit)—
Prerequisite(s): Admission to the graduate program. This course is designed for students 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 care leaders. (elective) (fall, spring)

NRSE 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. (fall)

NRSE 5510 Organizational Theory and Nursing Administration (3 credits)—
Prerequisite(s): NRSE 5501. Analyzes organizational theory and the role of the nurse administrator. Examines alternative forms of organizational structure, organizational culture, design parameters, and forces for and against change. (fall)

NRSE 5520 Fiscal Management in Nursing Administration (3 credits)—
Examines management of fiscal resources in nursing service settings. (summer)

NRSE/PUBH/MTM 5530 Health Care Organizations and Law (3 credits)—
Prerequisite(s): Permission of instructor. This interdisciplinary course is part of the Health Care Management Certificate Program that is totally online. The focus of the course is to provide an overview of the role of law in the health care system for health care administration. (summer)

NRSE/PUBH/MTM 5550 Human Resource Management in Health Organizations (3 credits)—
Prerequisite(s): Permission of instructor. This course focuses on the skills and concepts required in managing people in health service organizations, as well as on the human resource implications of changes in the external environment. Emphasis will be placed on the technical aspects of human resource management as well as the managerial skills required to manage people. (fall)

NRSE 5560 Nursing Administration Practicum I (3 credits)—
Prerequisite(s): NRSE 5510, 5520, and 5550. This first capstone course provides in-depth practicum experiences with approved preceptors in nursing administrative roles similar to those in which students will practice following program completion. (fall)

NRSE 5570 Nursing Administration Practicum II (3 credits)—
Prerequisite(s): Corequisite(s): NRSE 5560. This second capstone course provides in-depth practicum experiences with approved preceptors in nurse administrator roles similar to those in which students will practice following program completion. Students will complete a project and will analyze nursing administration and leadership roles. (fall)

NRSE 5580 Project Management for Nurse Leaders (3 credits)—
This course focuses on all major aspects and components of project management. Processes include assessing, initiating, planning, executing, controlling, and closing. (fall)

NRSE/MGMT/UBR 5590 Strategic Planning for Health Care Organizations (3 credits)—
Prerequisite: Permission of the major advisor. This course applies the concepts of strategic planning within the context of the health care industry. Issues associated with competing in a changing health care environment are explored with a focus on the development of solutions to problems associated with this change. The strategic management of health care delivery will be addressed from a variety of perspectives, ranging from those of the insurance industry, to public health facilities, to large health care networks, to small practices of health care providers. (fall, spring)

NRSE 5610 The Illness Experience (3 credits)—
Prerequisite: Graduate Status. This course examines the illness experience from the perspective of the patient. Particular emphasis is placed on distinguishing illness from disease and the role of narrative in enhancing health relationships and environments. (fall)

NRSE 5611 Diagnostic Interpretation and Therapeutic Modalities Practicum (3 credits)—
Prerequisite: NRSE 5009, 5010, 5015, and 5018; Corequisite(s): NRSE 5611: This course applies advanced assessment skills, diagnostic testing and current therapies to manage care of adults with complex acute, chronic and critical conditions in acute care using evidence and incorporating acute care pharmacology. (fall)

NRSE 5607 Global Health Issues (3 credits)—
Prerequisite(s): Admission to the Nursing major or permission of instructor. This course is designed for students 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 care leaders. (elective) (fall, spring)

NRSE 5900 Independent Study (1-3 credits)—
Prerequisite(s): Admission to the School of Graduate Studies. Independent study in consultation with a member of the graduate nursing faculty. Directed study and/or research in an area for which the student has a special interest. (elective) (fall, spring)

NRSE 5950 Internship in Advanced Nursing Practice (4 credits)—
Prerequisite(s): All required didactic and clinical courses. This internship experience focuses on the synthesis of previously gained knowledge and skills in the provision of advanced nursing care in a variety of settings. (fall, summer)

NRSE 5957 Special Topics in Nursing (1-6 credits)—
Prerequisite(s): Permission of the instructor. Special topics related to nursing and health care will be presented. Course may include didactic and experiential methods of instruction. May be repeated for credit if course content is significantly different or advanced. (elective) (fall, spring)

NRSE 6000 Theoretical Foundations of Nursing Practice (3 credits)—
Prerequisite(s): Admission to the doctoral program. This course will actively engage students in the analysis and evaluation of contemporary nursing knowledge, conceptual systems, and theories. Philosophical and historical dimensions of the development of nursing knowledge, the relationship between knowledge development and development of the discipline, strategies for theory development, and theoretical adequacy for nursing practice will be explored. (summer)

NRSE 6002 Health Policy Leadership (3 credits)—
Prerequisite(s): Admission the graduate program. This course is designed to help students develop skill in analyzing health policy development, evaluating current health policy, and providing leadership to knowledge development within the field of health policy. (fall)

NRSE 6004 Advanced Quality Management (3 credits)—This course prepares nurse leaders to direct complex health care systems within a customer-focused, ethical framework using advanced quality management skills. (spring)

NRSE 6014 Measurement of Clinical Outcomes (3 credits)—
Prerequisite(s): Permission of the instructor. This course is designed to help students develop skills in systematic evaluation, and development of clinical outcome measures in order to improve health. (summer)

NRSE 6015 Advanced Wound Care (3 credits)—This course focuses on the prevention of acute and chronic wound healing, comprehensive assessment, diagnosis and evidence-based treatment of wounds of varying etiologies across practice settings and the life span. (summer)

NRSE 6016 Advanced Concepts in Pathophysiology (3 credits)—
Prerequisite(s): Graduate-level pathophysiology and Graduate-level research. This course explores knowledge emerging from recent research in pathophysiology, examines current research trends, and presents designs and processes that focus on the clinical application of research findings. (fall)

NRSE 6018 Integrative Application of Advanced Practice Skills (3 credits)—
Prerequisites: NRSE 5605, 5609, and 5611. This course focuses on development of advanced practice skills and their integration in the diagnosis and management of acute and chronic clinical problems in acute care settings. (fall)

NRSE 6050 Translation of Nursing Science in Practice (3 credits)—
Prerequisite: NRSE 5501. This course is designed to provide DNP students with the theoretical and applied knowledge for the translation of nursing science into practice in order to improve the outcomes, quality, efficiency, and cost effectiveness of care. (fall)

NRSE 6100 Philosophy of Nursing Science (3 credits)—
Prerequisite(s): Admission to the Ph.D. program. This course clarifies traditional and contemporary philosophic approaches to scientific knowledge development and illuminates interdisciplinary among philosophies of science, theory, scientific methods, practice, and nursing. (fall)

NRSE 6400 Improving Mental Health Outcomes in Primary Care (3 credits)—
Prerequisite: Admission to the Graduate Nursing Program. This course provides advanced practice nurses with the necessary knowledge base to provide care for adults and their families experiencing mental health problems encountered in the primary care setting. (fall)

NRSE 6412 Clinical Prevention in Mental Health Services (3 credits)—
This course will focus on theoretical foundations in mental health promotion, mental illness prevention and maintenance of function across the health-illness continuum with the individual, family, and community. (fall)

NRSE 6413 Advanced Communication Skills (3 credits)—This course focuses on the theory, techniques, and application of communication skills for advanced practice nurses in their integration in the diagnosis and management of mental illness. (fall)

NRSE 6414 Neurobiology Psychiatric Disorder (3 credits)—This course will provide essential neurobiology of psychiatric disorders for the Psychiatric Mental Health Nurse Practitioner. The structural, biochemical, and molecular mechanisms of the normal nervous system in relationship to neuropsychiatric dysfunction and neurodegeneration will be examined. (fall)

NRSE 6415 Mental Health Care Delivery Systems (3 credits)—This course will focus on the role of the advanced practice psychiatric nurse in the larger context of mental health care by examining models of service delivery regionally, nationally and internationally.
NRSE 6513 Case Management (3 credits)—Prerequisite(s): Graduate status or permission of instructor. This course focuses on the current and evolving role of the professional in case management and in the managed care environment. Dimensions of the case management role will be explored through class discussion, oral and written presentation, and expert testimony. Students will have the opportunity to explore the process of case management from a variety of theoretical perspectives, and they also will have the opportunity to examine emerging trends. (fall, spring)

NRSE 6514 Nurse Practitioner in Long-Term Care of Adults (3 credits)—This course provides in-depth knowledge of health care management of comorbidities and disabilities of adults in long-term care. The focus of the course is the support physiological reserves and promotion of rehabilitation using evidence-based guidelines.

NRSE 6612 Principles of Nurse Practitioner Practice (3 credits)—The establishment, maintenance and evaluation of a nurse practitioner practice will be discussed.

NRSE 6613 Advanced Nursing Rural/Underserved Populations (3 credits)—Prerequisite: Completion of all 5000 level clinical courses. This course examines the relationship between pathophysiologic processes and complex disease states across the life span, with special attention to conditions and areas of health disparities common to rural and underserved populations.

NRSE 6614 Advanced Intervention DNP Practicum (3 credits)—This course focuses on advanced procedural, technical and clinical nursing skills with intervention techniques for advanced practice.

NRSE 6711 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. (fall, spring)

NRSE 6712 Strategic Fiscal Management (3 credits)—This course examines strategic fiscal management in nursing service settings with an emphasis on balancing fiscal accountability with quality.

NRSE 6713 Systems Management (3 credits)—Prerequisite: Admission to DNP Program. This course focuses on the role of the nurse administrator/executive in systematic management within complex organizations. Management is viewed from a systems approach.

NRSE 6714 Executive Leadership (3 credits)—This course focuses on current and emerging theories impacting the role of the nurse administrator/executive at an aggregate/systems/organizational level.

NRSE 6715 Contemporary Problems and Opportunities in Executive Leadership (3 credits)—Prerequisite: Admission to DNP Program. This course examines contemporary problems and opportunities in executive leadership for the DNP at the aggregate/systems/organization level.

NRSE 6800 DNP Residency Internship (1-3 credits)—Prerequisite: Admission to DNP program or permission of instructor. This course is a practicum immersion where students integrate and synthesize the essentials and specialty requirements necessary to demonstrate competency in an area of specialized nursing practice. Includes at least 500 hours of supervised practice-related experiences.

NRSE 6801 Advanced Clinical Pathophysiology (3 credits)—Prerequisite: All DNP 5000 level coursework or permission of instructor; Corequisite: NRSE 6800. This course provides an opportunity for the student to apply advanced theoretical, policy, and specialty knowledge and skills to a clinical or systems-level problem. It is expected that students will propose a capstone project that will demonstrate advanced levels of systems thinking in designing, delivering and evaluating evidenced-based strategies to influence care provision or system changes and improve outcomes for individuals, groups, or populations.

NRSE 6900 Dissertation Seminar (1 credit)—Prerequisite(s): NRSE 6014. This seminar is designed for the doctoral student to prepare him or her for the dissertation process. fall, (spring)

NRSE 6950 Internship Advanced Nursing Practice (3 credits)—This internship experience focuses on the synthesis of previously gained knowledge and skills to provide advanced nursing care for individuals, families and communities. Emphasis is placed on health promotion, disease prevention and clinical management of clients with common acute and chronic illness in primary care settings.

NRSE 6960 Doctoral Dissertation (1-12 credits)—Prerequisite(s): Successful completion of Qualifying Examination. Supervised research toward dissertation. (fall, spring)

Nursing (NURS)

NURS 5000 Theoretical Foundations of Advanced Nursing Practice (2 credits) — Prerequisite: Admission to the RODP-MSN program or permission of coordinator. This course provides the student with the theoretical foundations for advanced nursing. The focus of the course is on the critical components of contemporary nursing practice; exploration of the nature of theory development in nursing; examination of relevance of concepts from basic and applied sciences; analysis and evaluation of nursing and related theories; and relevance of theory in terms of impact on professional nursing practice, and individuals, families, and groups as clients in health care systems.

NURS 5001 Health Care Policy (3 credits) — Prerequisite: Admission to the RODP-MSN program or permission of coordinator. The primary focus of this course is the systematic examination of health private health care delivery systems are examined. Students explore future challenges and processes to improve systems.

NURS 5002 Advanced Nursing Research (3 credits) — Prerequisite: Admission to the RODP-MSN program or permission of coordinator. This course involves the systematic examination and evaluation of nursing and related theories; and relevance of theory in contemporary nursing knowledge; exploration of the nature of theory development and emerging theories impacting the role of the nurse administrator/executive at an aggregate/systems/organizational level.

NURS 5003 Advanced Role Development (3 credits) — Prerequisite: Admission to RODP-MSN program. This course provides students with an in-depth understanding of the legal, historical, political, social, and ethical aspects of advanced nursing. Traditional and emerging roles for advanced nursing are examined.

NURS 5101 Advanced Health Assessment (3 credits) — Prerequisite: Admission to RODP-MSN program. This course prepares the advanced practice nurse to conduct focused and comprehensive health assessments of clients across the lifespan. The process of diagnostic reasoning is emphasized as the primary means of collecting and analyzing data obtained from the client history, physical examination, and diagnostic procedures.

NURS 5102 Advanced Health Assessment - Clinical (1 credit) — Prerequisite: Admission to RODP-MSN program. This course provides a basis for the foundation of clinical decisions related to focused and comprehensive health assessments of clients across the lifespan. This course provides an introduction to physical examination and diagnostic reasoning skills are developed.

NURS 5103 Advanced Pathophysiology (3 credits) — Prerequisite: Admission to the RODP-MSN program. An in-depth scientific knowledge base relevant to selected pathophysiological states confronted by advanced practice nurses is explored. This course provides a basis for the foundation of clinical decisions related to focused and comprehensive health assessments of clients across the lifespan. Pathophysiology across the lifespan is correlated to clinical diagnoses and management.

NURS 5104 Advanced Clinical Pharmacology (3 credits) — Prerequisite: Admission to the RODP-MSN program. This course focuses on pharmacology and therapeutics used in the treatment of selected health conditions encountered by the advanced practice nurse. Emphasis is placed on the decision-making process utilized to safely and effectively prescribe and monitor pharmacotherapeutics appropriate to the client situation.

NURS 5104 Advanced Clinical Pharmacology (3 credits) — Prerequisite: NURS 5000. This course explores major research-based theories of adult learning and knowledge development in nursing. These theories will be examined for their utility across a variety of settings and/or levels of education.

NURS 5202 Teaching Strategies and Evaluation Methods (3 credits) — Prerequisite: Admission to the RODP-MSN program. This course focuses on teaching students at the university, community college, and health care settings with knowledge necessary for competent classroom and clinical teaching. Methods of teaching students at the university, community college, and health care settings in classroom, seminar, and electronic formats are explored. Evaluation methods used in the classroom and in clinical instruction are included.

NURS 5203 Curriculum Design (3 credits) — Prerequisite: NURS 5201. This course introduces the student to traditional and contemporary considerations for curriculum planning and design as applied to nursing education. Emphasis is placed on philosophy, theory, objectives, curriculum designs, and total program evaluation.

NURS 5207 Clinical Focus Practicum (2 credits) — Prerequisites: NURS 5103; 3 hours (1 course) in selected clinical focus area. Corequisite: second course in sequence of 2 clinical focus courses. This practicum experience focuses on the synthesis of previously gained knowledge and skills in the provision of advanced nursing care to individuals, families, and communities. Emphasis is placed on management of clients within a clinical focus area.

NURS 5209 Nursing Education Practicum (4 credits) — Prerequisites: NURS 5201, NURS 5202, and NURS 5203. Corequisite: NURS 5207. This practicum experience is designed to integrate theory in a reality context of the teaching role. Opportunities are provided to participate in all phases of the teaching role, including clinical instruction in an area of specialization, and to experiment with different teaching methods.

NURS 5301 Nursing Administration I (3 credits) — Prerequisite: Admission to the RODP-MSN program. Comprehensive analysis of concepts required for effective performance of the nurse executive's role in organizations. Management as a function of the total organizational system is evaluated. Organizational designs and interpersonal relationships in the health care organization are critiqued.

NURS 5302 Nursing Administration II (3 credits) — Prerequisite: NURS 5301. A value-added concepts used for effective performance of the nurse executive's role in organizations. The use of human and financial resources in organizational development is explored.

NURS 5303 Health Care Finance (3 credits) — Prerequisite: Admission to the RODP-MSN program or permission of coordinator. This course will enable you to learn the basics of current finance theory and tools to practice in managing health care on a day-to-day basis.

NURS 5304 Human Resources Management (3 credits) — Prerequisite: NURS 5301. Personnel and human resource issues including labor management in nursing and health care settings.

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This course provides students with an overview of informatics and the theoretical foundation for information management within the health care setting. The impact of automated data management through advances in information technology, health care information systems, and tele-health are explored.

NURS 5404 Evaluation of Health Care Information Systems (3 credits) — Prerequisite: NURS 5403. This course provides advanced knowledge and skill for implementing and evaluating health care information systems in practice. Emerging technologies are emphasized.

NURS 5405 Health Care Data Analysis Techniques (3 credits) — Prerequisite: NURS 5401. This course presents the concepts related to complex data analysis within the health care environment. Principles of data collection, organization, and statistical analysis and interpretation will be covered. Students will also have the opportunity to review complex applications for data mining and reporting within the health care environment.

NURS 5407 Informatics Applications Practicum I (2 credits) — Prerequisite: NURS 5404. This practicum builds upon the concepts and technology introduced in related informatics coursework to provide experiences in informatics applications in health care settings.

NURS 5409 Informatics Applications Practicum II (2 credits) — Prerequisite: NURS 5403. Corequisite: NURS 5404. The practicum course builds upon the conceptual and technological foundation introduced in other related informatics coursework to provide additional experiences in informatics applications in health care settings. Students will have the opportunity to explore a variety of informatics applications and then identify specific informatics applications based on their practice interests.

NURS 5501 Advanced Adult Health Nursing I (3 credits) — Prerequisite: NURS 5400. This course focuses on the critical and enduring issues for nursing management of the acutely ill client from social, cultural, psychological, physical, spiritual, and economic perspectives.

NURS 5503 Advanced Adult Health Nursing II (3 credits) — Prerequisites: NURS 5501/5502 and NURS 5501/5502. This course focuses on the practical and conceptual basis for nursing management of clients experiencing chronic illness from social, cultural, psychological, physical, spiritual, and economic perspectives.

NURS 5511 Psychiatric Nursing Care I (3 credits) — Prerequisite: NURS 5103. This course will provide a foundation in the specialty care of individuals and families experiencing a psychiatric disorder.

NURS 5513 Psychiatric Nursing Care II (3 credits) — Prerequisite: NURS 5103. This course provides students with a conceptual theory-base for implementing advanced practice psychiatric nursing psychotherapy interventions.

NURS 5522 Critical Care I (3 credits) — Prerequisite: NURS 5001. This course focuses on advanced concepts of critical care related to multi-organ/system function and dysfunction. Nursing care relating to physiology, assessment, pathophysiology, system failure, and clinical management of the cardiovascular system, pulmonary system, renal system, and endocrine system are addressed. Core concepts of complex pathophysiology, current treatment modalities, and advanced nursing roles are integrated in discussions of providing care to critically ill patients.

NURS 5523 Critical Care II (3 credits) — Prerequisite: NURS 5001. This course focuses on advanced concepts of critical care related to multi-organ/system function and dysfunction. Nursing care relating to physiology, assessment, pathophysiology, system failure, and clinical management of the defense system (infection, sepsis, organ/bone marrow transplant), shock, trauma, neurological system, hepatic system, and gastrointestinal system are addressed. Intensive care concepts with more complex pathophysiology and advanced treatment modalities of advanced nursing care are integrated to provide care to critically ill patients.

NURS 5541 Women's Health and Perinatal Nursing I (3 credits) — Prerequisite: NURS 5103. This course focuses on evidence-based care of the woman experiencing common acute and chronic illnesses and developmental transitions. Nursing strategies will include health promotion, prevention of disease, maintenance, and restoration.

NURS 5543 Women's Health and Perinatal Nursing II (3 credits) — Prerequisites: NURS 5541 and NURS 5103. This course focuses on evidence-based care of the woman who is experiencing common acute and chronic illnesses, and the puerperium. Focus will include selected alterations of pregnancy. In addition, management and care of the adaptive transitional stages of the newborn and parenting education are explored.

NURS 5601 Family Nurse Practitioner I (3 credits) — Prerequisites: Admission to the RODP-MSN program or permission from the department chair, NURS 5101/5102, NURS 5103, and NURS 5104. Corequisite: NURS 5602. This course focuses on advanced practice nursing and health care management of women in diverse populations. Course content includes bio-psychosocial interactions affecting women throughout the life span.

NURS 5602 Family Nurse Practitioner II - Clinical (2 credits) — Prerequisites: Admission to the RODP-MSN program or permission from the department chair, NURS 5101/5102, NURS 5103, and NURS 5104. Corequisite: NURS 5601. The focus of this clinical course is delivery of advanced nursing care to women. Various clinical settings with diverse populations may be employed for clinical practice.

NURS 5603 Family Nurse Practitioner II (3 credits) — Prerequisites: Admission to the RODP-MSN program or permission from the department chair, NURS 5101/5102, NURS 5103, and NURS 5104. Corequisite: NURS 5604. This course focuses on advanced practice nursing and health care management of adults and older adults in diverse populations. Course content includes developmental, physiological, pathological, and psychosocial changes relative to health maintenance, acute and chronic illnesses, and life transitions.

NURS 5604 Family Nurse Practitioner II - Clinical (4 credits) — Prerequisites: Admission to the RODP-MSN program or permission from the department chair, NURS 5101/5102, NURS 5103, and NURS 5104. Corequisite: NURS 5603. This course focuses on advanced practice nursing and health care management of adults and older adults in diverse populations. Course content includes developmental, physiological, pathological, and psychosocial changes relative to health maintenance, acute and chronic illnesses, and life transitions.

NURS 5605 Family Nurse Practitioner III (3 credits) — Prerequisites: NURS 5101/5102, NURS 5103, and NURS 5104. Corequisite: NURS 5606. The focus of this course is on advanced nursing and health care management of children and adolescents. Course content includes developmental, physiological, pathological, and psychosocial changes relative to health maintenance, acute and chronic illnesses, and life transitions.

NURS 5606 Family Nurse Practitioner III - Clinical (2 credits) — Prerequisites: NURS 5101/5102, NURS 5103, and NURS 5104. Corequisite: NURS 5605. This clinical course is designed to provide the student with opportunities to deliver advanced nursing care to children and adolescents in families and communities. In collaboration with nursing faculty and clinical preceptors, various primary care settings will be employed for clinical practice.

NURS 5609 Advanced Family Nurse Practitioner Practicum (4 credits) — Prerequisites: NURS 5000/5001; NURS 5603/5604, and NURS 5605/5606. Corequisite: NURS 5990. This practicum experience focuses on the synthesis of previously gained knowledge and skills in the provision of advanced nursing care to individuals, families, and communities. Emphasis is placed on health promotion, disease prevention, and clinical management of clients with common acute and chronic illness.

NURS 5631 Pediatric Nursing I (3 credits) — Prerequisite: Admission to the RODP-MSN program or permission of coordinator. This course is designed to provide advanced practice nurse with the necessary knowledge to provide health maintenance and health promotion to well children and their families.

NURS 5632 Pediatric Nursing II (3 credits) — Prerequisites: NURS 5000 and NURS 5101/5102. This course is designed to provide the advanced practice nurse with the necessary knowledge base to provide care for children and their families experiencing minor acute illness and chronic illness/disabilities. Content will emphasize common minor acute illnesses and chronic illness/disabilities typically seen in the ambulatory clinic site.

NURS 5990 Scholarly Synthesis (3 credits) — Prerequisites: NURS 5002, permission of department. As a culminating experience, this course is intended to be taken during the semester of planned graduation. As a culminating experience, this course provides the student with the opportunity to complete a synthesis component. The student will choose one of the following scholarly activities: 1. design a program; 2. write a grant proposal; 3. complete a scholarly project; 4. submit a manuscript for publication; and 5. present at a national or regional research conference. The activity must be approved by the supervising faculty member and the concentration coordinator.

Pharmacology (PHAR)

PHAR 5000/6000 Medical Pharmacology (7 credits) — Prerequisite(s): Biomedical Science I-V or permission of the instructor, Medical Pharmacology 5000, and permission of the instructor. This general survey course, designed for medical students, will be used as an introductory course for graduate students. Graduate
PHAR 5100 General Principles of Pharmacology (4 credits)—Prerequisite(s): Permission of the instructor. The objective of this course is to introduce students to the study of experimental pharmacology. Lectures, laboratory experiences, and discussions are utilized in the experimental design, basic pharmacokinetics, bioassays, and drug-receptor interactions. (fall, spring, summer)

PHAR 5200/6200 Pharmacology Seminar (2 credits)—Presentation by students and faculty of literatures concerned with a particular topic of interest. Students must be prepared to participate in discussion. This course can be taken repeatedly for credit. (fall, spring, summer)

PHAR 5210/6210 Laboratory Rotation - Pharmacology (1-3 credits)—An entering student will be required to take this rotation course during the first semester. The student is to make arrangements to spend about four weeks in at least three faculty members’ laboratory during the semester rotation. The credit hour assigned will be based upon approximately 3-4 hours/week/credit for the semester. The purpose of the rotation is to expose the student and selected faculty to a mutual learning experience. The goal is to expose the student to what the particular laboratory selected is actively pursuing in research, and to become introduced into some aspect of the discipline that can enhance the selection of a research area and sponsor. The faculty will become aware of the talents, level of interest, and previous training the student has brought to the program. (S210 - fall, spring; 6210 - fall, spring, summer)

PHAR 5230 Physical Pharmacology and Physiology Journal Club (1 credit)—Presentation by students and faculty of literatures concerned with a particular topic of interest. Students must be prepared to participate in discussion. This course can be taken repeatedly for credit. (fall, spring, summer)

PHAR 5500/6500 Special Topics in Pharmacology (1-4 credits)—Courses will be offered in special restricted areas of pharmacology to meet the needs of particular students. Hours by arrangement for variable credit. (every semester)

PHAR 5900/6900 Special Problems in Pharmacology (1-4 credits)—Research projects of limited scope to allow the student to develop certain skills or establish a specific research area. Conference and laboratory. (every semester)

PHAR 5957 Special Topics in Pharmacology (1-5 credits)—Prerequisite(s): Permission of the instructor. A limited number of special assignments may be made if this is found necessary. Hours by arrangement for variable credit. (every semester)

PHAR 5960 Pharmacology Thesis Research (1-6 credits)—Supervised research toward thesis. Generally up to 12 credits; exceptionally up to 16 credits. (every semester)

PHIL 5017 Ethical Theory (3 credits)—History of ethics from Ancient Greece to the present. Special emphasis on the theories of Plato, Aristotle, Kant, and Mill. (fall)

PHIL 5047 Philosophy of Religion (3 credits)—An examination of classical and contemporary discussions of philosophical issues about religion including the nature of God, of man, and of religious truth; and contemporary discussions of modern and atheism. (spring, odd years)

PHIL 5057 Philosophy of Art (3 credits)—An introduction to philosophical issues that arise in our attempts to understand the creation, appreciation, and criticism of various literary, plastic, and performing arts. (spring, even years)

PHIL 5067 Philosophy in Literature (3 credits)—An examination of philosophical issues as they appear in the world’s literature including poetry, fiction, and essays. (fall)

PHIL 5077 Contemporary Continental Philosophy (3 credits)—A survey of the developments in European philosophy from the late 19th century to the present. Topics may include phenomenology, hermeneutics, deconstruction, poststructuralism, critical theory, and philosophies of difference. (spring, even years)

PHIL 5087 Topics in Analytic Philosophy (3 credits)—A survey of the developments in analytic philosophy from the late 19th century to the present. Topics may include logical atomism, logical positivism, ordinary language philosophy, naturalism, conceptual analysis, analytic epistemology, analytic metaphysics, and meta-ethics. (spring, odd years)

PHIL 5107 Classical Political Philosophy (3 credits)—An examination of the classical tradition in political thought with emphasis on reading the works of Plato and Aristotle as well as those of later representatives of this tradition. (fall, even years)

PHIL 5127 Modern Political Philosophy (3 credits)—An examination of modern political thought with emphasis on reading the works of Plato and Aristotle as well as those of later representatives of this tradition. (fall, even years)

PHYS 5007 Computational Physics (4 credits)—Prerequisite(s): PHYS 2110-2120 or MATH 3200. This course is designed to cover techniques used in numerically modeling physical systems and reduction of scientific data. Topics include data fitting; error analysis; numerical differentiation and integration; techniques to numerically solve systems of linear equations, ODEs, and PDEs; numerical solution to trajectory and orbit problems; and numerical Fourier analysis. Prior computer programming experience is desirable, but not mandatory.

PHYS 5117 Kinetic and Statistical Physics (4 credits)—Prerequisite(s): 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 Botzmann, Fermi-Dirac, and Bose-Einstein statistics. Three hours lecture and one hour recitation each week.

PHYS 5517 Quantum Physics (4 credits)—Prerequisite(s): PHYS 3610, PHYS 3101, and senior standing. An introduction to quantum theory and nonrelativistic quantum mechanics. Historical development of ideas which led to present-day theories, Schroedinger’s equation and applications, approximation methods, matrix methods, and related topics.

PHYS 5717 Electromagnetic Theory (4 credits)—Prerequisite(s): PHYS 3710. Principles of electromagnetic per week, Maxwell’s equations, selected applications, and related topics. Three hours lecture and one hour recitation each week.

PHYS 5900 Special Problems in Physics (1-3 credits)—Prerequisite(s): Approval of a research advisor. Individual research on a problem in which the graduate student has a special interest. Hours arranged. May be repeated in successive semesters.
**Physical Therapy (PHYT)**

Note: Students must be accepted into the Physical Therapy program in order to register for any of the following courses:

**PHYT 6101 Functional Human Anatomy** (6 credits)—The study of normal human anatomy as it relates to function with special emphasis on structures of the extremities. Includes an introduction to embryological development histology. Human cadaver dissection is the primary laboratory activity. (spring)

**PHYT 6102 Pathophysiology** (4 credits)—This course includes a survey of the clinical signs, symptoms, and etiologies of the major diseases of all systems of the human body. Principles of diseases affecting the different organ systems with clinical relationships and physical therapy are studied. (spring)

**PHYT 6103 Biomechanics** (3 credits)—This course is an introduction to the study of biomechanics as it relates to the clinical practice of physical therapy. Emphasis will be on mathematical clinical problem solving as it relates to forces and motions acting within or on the human body statically or dynamically, biomechanics of solids and musculoskeletal tissues; biomechanics of joint complexes of the human body; and, an introduction to the application of biomechanical scientific principles in the evaluation of the musculoskeletal system. (spring)

**PHYT 6111 PT Basic Skills I** (2 credits)—This is an introductory course in evaluation techniques. Topics include, but are not limited to: evaluation of posture and gross motion of the extremities and trunk, manual muscle testing, and goniometry. (spring)

**PHYT 6151 Professional Issues I** (1 credit)—This is the first in a series of two courses that will introduce students to the various ethical, legal, psychosocial, and management issues involved in being a physical therapist. Emphasis will be placed on various issues that affect one’s own value system and how one relates to other health care professionals, patients, patients’ families, and the changing health care system. (fall)

**PHYT 6212 PT Basic Skills II** (2 credits)—The students will have the opportunity to learn the theory and psychomotor skills for applying the physical modalities commonly employed in physical therapy. The physical therapy related modalities within the following areas will be covered: electromagnetic radiation (UV, IR, LASER), Mechanical (US, distraction, compression), Thermal (conductive and convective heating, cryotherapy, diathermy, hydrotherapy). (summer)

**PHYT 6213 PT Basic Skills III** (4 credits)—Documentation and patient care skills are presented; skills include transfer techniques, wheelchair management, teaching the use of assistive gait devices, and how to monitor vital signs. In addition, a general overview of exercise prescription, exercise techniques, and clinical outcome measures associated with therapeutic exercise will be presented. Students will study and practice general rules of good body mechanics, patient handling, and safety for patients and therapists. An overview of some methods for kinesiology and kinetic analysis will be presented. The terminology used to describe normal gait and the variables assessed in a gait analysis will provide the basis for observational gait analysis. An introduction to pathological gait patterns as well as normal changes that occur in ambulation over the life span will also be presented. (summer)

**PHYT 6221 Musculoskeletal I: Upper Quarter (Cervical Spine, TMJ, and Upper Extremities)** (4 credits)—This course is an introduction to physical therapy evaluation and treatment management of common neuromusculoskeletal disorders of the cervical spine, stomatognatic system (especially temporomandibular joint), and the upper extremities (shoulder, elbow, wrist, and hand). This course includes an introduction to clinical and differential diagnosis for neuromusculoskeletal disorders, for common orthopaedic clinical tests, fracture management, manual therapy, imaging and radiological evaluation of the upper quarter, and rehabilitation of common surgical repairs of the upper quarter. (summer)

**PHYT 6261 Introduction to the Research Process** (1 credit)—This course provides students with an introduction to the foundations and concepts involved in scientific investigation, and the composition and critical analysis of scientific writing and presentation. (summer)

**PHYT 6271 Clinical Practicum I** (2 credits)—Prerequisite(s): Successful completion of previous coursework in the PHYT curriculum. This is the first in a series of courses designed to allow students to implement and refine the clinical skills learned in the classroom in a patient care setting. Each student will be assigned to a clinical setting and work under the direct supervision of a licensed physical therapist. By completing all of the clinical practicum objectives, the student will meet each of the PHYT Program Goals. (summer)

**PHYT 6304 Neurosciences** (6 credits)—This course is designed to transmit the fundamental facts and concepts underlying current knowledge of the nervous system. This knowledge applies to general clinical training in medicine and physical therapy and on the principle that the best understanding of the nervous system is obtained when the morphological, physiological, and behavioral aspects of the neurosciences are presented conjointly. Clinical examples and correlations are used to provide a context for perceiving and recognizing normal nervous system function and to illustrate how knowledge of the basic neurobiological principles underlie an understanding of neural and behavioral dysfunction. (fall)

**PHYT 6314 PT Basic Skills IV** (2 credits)—The course includes an introduction to the evaluation, assessment, and treatment of soft tissues affecting dysfunction or pain. Specific tissues include muscle, epithelial, nerves, and connective tissue and topics include massage, myofascial techniques, stretching, and contract-relax. (fall)

**PHYT 6315 Electrotherapeutics** (3 credits)—Students will have the opportunity to learn the theory and psychomotor skills for applying the electrotherapeutic modalities commonly employed in physical therapy. The course will focus on the use of electrical force in the evaluation and treatment of patients in rehabilitation medicine. (fall)

**PHYT 6322 Musculoskeletal II: Lower quarter (thoracic, lumbar, pelvis/sacral spine, and lower extremities)** (4 credits)—This course is an introduction to physical therapy evaluation and treatment management of common neuromusculoskeletal disorders of the thoracic, lumbar, pelvic/sacral spine, and lower extremities (hip, knee, ankle, and foot). It includes an introduction to differential diagnosis for neuromusculoskeletal disorders, for common orthopaedic clinical tests, fracture management, manual therapy, imaging and radiological evaluation of the lower quarter and rehabilitation of common surgical repairs of the lower quarter. (fall)

**PHYT 6331 Neurotherapeutic Principles I** (4 credits)—This course includes an application of basic anatomy and physiology of the human nervous system to evaluation and treatment techniques for the neurologically involved patient. Emphasis is placed on critical analysis of the neurological assessment procedures and principles of therapeutic management as they relate to neurophysiological and developmental learning principles. The course is designed to present to the student the etiology, incidence, signs and symptoms, motor impairment, physical disabilities, prognosis, and medical and surgical management of common disorders such as the following: stroke, spinal cord injury, traumatic brain injury, Parkinson’s disease, neuromusculating diseases, degenerative diseases, inherited diseases, infectious diseases, neuromuscular diseases, congenital, and infections of the nervous system. This course will provide the student with the didactic and clinical applications of evaluative measures, therapeutic interventions, and treatment rationale for these select neurological conditions. (fall)

**PHYT 6405 Pharmacology I** (4 credits)—Students are introduced to the most commonly used pharmacotherapeutic agents for patients receiving physical therapy. The role of these agents is discussed in relation to disease prevention, amelioration, rehabilitation/cure, maintenance, and how they affect the patient’s response to physical therapy procedures. (spring)

**PHYT 6416 Wound and Burn Care** (2 credits)—This is an introductory course for the prevention, evaluation, and management of non-thermal and thermal wounds of the integument and associated soft tissues as commonly seen in the practice of physical therapy. (spring)

**PHYT 6432 Neurotherapeutics II-Pediatrics** (3 credits)—Introduction to the physical therapy management of children with diseases and dysfunction of the neuromusculoskeletal system. Students will learn through lecture and laboratory experiences how to implement specific evaluation and treatment techniques for these conditions including, but not limited to, the management of cerebral palsy, spina bifida, muscular dystrophy, common pediatric orthopedic problems and mental retardation. Normal and abnormal growth and development will also be presented. Students will also be exposed to the various federal regulations that impact the delivery of physical therapy services to the pediatric population. (spring)

**PHYT 6433 Neurotherapeutics III-Geriatrics** (2 credits)—This course is designed to provide students the opportunity to build upon and integrate previous coursework in physical therapy evaluation and treatment planning of the geriatric client. Emphasis is placed on the musculoskeletal, neurologic, cardiopulmonary, and psychosocial factors involved in the normal aging process. Students will then modify, practice, and demonstrate various treatment approaches to select medical problems frequently encountered in the geriatric population. (spring)

**PHYT 6452 Clinical Correlates Seminar I** (1 credit)—This is the first of two courses in which students begin to integrate concepts drawn from previous coursework with developing clinical knowledge and practical experience. Case studies will be presented to the class and faculty for discussion to facilitate transition to professional practice. The emphasis of the first course is presenting accurate and objective patient case study information and one (1) objective evidence-based assessment or intervention. (spring)

**PHYT 6462 Scientific Inquiry for Physical Therapists** (1 credit)—The course provides students with an introduction for critical examination of research sampling, designs, and data analysis. Elements of experimental and nonexperimental designs will be studied. Statistical measures for variability, and common parametric and nonparametric analysis of data are also examined. (spring)

**PHYT 6472 Clinical Practicum II** (2 credits)—This is the second in a series of courses designed to allow students to implement and refine the clinical skills learned in the classroom in a patient care setting. Each student will be assigned to a clinical setting and work under the direct supervision of a licensed physical therapist. (summer)

**PHYT 6523 Prosthetics and Orthotics** (3 credits)—This course emphasizes the physical therapy management of patients with amputations. Students learn how to implement specific evaluation and treatment techniques for this condition including proper function and use of prostheses, exercise programs used for training, and gait patterns. In addition, this course will introduce basic principles of orthotics for the spine and extremities. (summer)

**PHYT 6541 Cardiopulmonary Rehabilitation** (2 credits)—Lecture and laboratory course which emphasizes the physical therapy management of patients with disease and dysfunction of the cardiovascular and pulmonary systems. Students
learn how to implement specific evaluation and treatment techniques for cardiopulmonary conditions; including low level stress testing and EKG interpretation. The course includes a review of the anatomy and physiology of the cardiovascular and respiratory systems as the foundation for understanding the pathophysiology of the conditions studied. (summer)

PHYT 6553 Professional Issues II (2 credits)—This is the second in a series of two courses that will introduce students to the various ethical, legal, psychosocial, and management issues as part of being a physical therapist. Emphasis will be placed on various issues that affect one’s own value system and how one relates to other health care professionals, patients, patients’ families, and the changing health care system. (summer)

PHYT 6554 Health Promotion and Wellness (2 credits)—This is the second of two (2) courses in which students begin to integrate concepts drawn from previous coursework with developing clinical knowledge and practical experience. Case studies will be presented to the class and faculty for discussion to facilitate transition to professional practice. The emphasis of the second course is evidence-based assessment or interventions for a specific patient case study and the outcomes. (summer)

PHYT 6573 Clinical Practicum III (2 credits)—This is the third in a series of courses designed to allow students to implement and refine the clinical skills learned in the classroom in a patient care setting. Each student will be assigned to a clinical setting and work under the direct supervision of a licensed physical therapist. (summer)

PHYT 6663 Human Research for Physical Therapy (1 credit)—Students are introduced to the procedures involved in human research. These include the ethical, legal, regulatory, and reimbursement requirements and development and submission of all documentation required to conduct research with humans. Students will examine the components and mechanism of writing a case report. (fall)

PHYT 6674 Internship I (12 credits)—This course will allow the student to develop and refine the clinical skills necessary to evaluate and treat patients/clients coming to see them. Students will be assigned to a variety of clinical settings and work under the direct supervision of a licensed physical therapist. (fall)

PHYT 6681 Administration & Management in PT (2 credits)—This is an introductory course to the principles of administration/management as they relate to the practical business of physical therapy. Topics will include, but not be limited to: physical therapy in the changing health care system and changing organizational structures, fiscal management, human resources management, reimbursement for service issues, information management technologies, operations management, strategic planning, service learning, facility management, marketing and public relations, consultation issues, contracts, continuing quality improvement, time management, and management communications relative to physical therapy. (fall)

PHYT 7706 Pharmacology II for Physical Therapy (1 credit)—Prerequisite(s): PHYT 5405 or 4405; or permission of instructor. Students are introduced to additional pharmacologic agents in patients receiving physical therapy. The pharmacokinetics, pharmodynamics, and toxic effects of these pharmaceutics and their effect on patient’s response to physical therapy assessment or interventions are discussed. (spring)

PHYT 7717 Current Trends in Physical Therapy (1 credit)—Students will explore special needs within the population or health care community where expanded physical therapy services could have a positive impact on the well-being or function of individuals. The topic(s) will vary from year to year and be dependent on special needs of the population identified by the departmental faculty through their service, education, and research efforts. (spring)

PHYT 7764 Case Study in Physical Therapy (1 credit)—Prerequisite(s): PHYT 6663, Human Research for Physical Therapy. Students will continue to develop investigative and writing skills under the individual guidance of the physical therapy departmental faculty by preparing a written case study based on a physical therapy clinical situation. This course will build on the introduction to case studies presented in PHYT 6663, Human Research. (spring)

PHYT 7775 Internship II (10 credits)—This course will allow the student to further develop and refine clinical skills necessary to evaluate and treat patients/clients commonly seen by a physical therapist. Students will be assigned to a variety of clinical settings and work under the direct supervision of a licensed physical therapist. (spring)

PHYT 7807 Imaging Studies for Physical Therapy (2 credits)—This course is an in-depth overview of imaging studies introduced earlier in the physical therapy curriculum. The student will study various imaging technologies such as computed tomography (CT) scans, medical resonance imaging (MRI), myelograms, and nuclear medicine with a emphasis on plain film radiography. These studies will be related to the cardiovascular, pulmonary, gastrointestinal, and reproductive systems with an emphasis on the neuromusculoskeletal system. In turn, these studies will be related to the role of the physical therapist on the health care team and the making of a physical therapy diagnosis. The student will also discuss the advantages and limitations of requesting and using imaging as part of the physical therapy process and the evaluation of data. (summer)

PHYT 7855 Lifespan Development for Physical Therapy (3 credits)—This course involves a comprehensive examination of physical, emotional, cognitive, and socio-cultural aspects of development from the prenatal period throughout the lifespan. Emphasis will be on the ‘total person’ as students examine the interdependency of these areas during development. Theoretical, methodological, and empirical issues will be emphasized as students explore stages and transitions in sensory-motor, cognitive, emotional, and social development throughout the lifespan. (summer)

PHYT 7856 Health and Wellness Strategies for Physical Therapy (3 credits)—This course will assist the physical therapist or student in expanding his/her role in developing strategies in prevention and the promotion of health, wellness, and physical fitness as part of the education process. Emphasis will be placed upon examination of research literature. (alternate years)

PHYT 7857 Differential Diagnosis for Physical Therapy (2 credits)—This course is designed to guide students through a systematic and comprehensive clinical decision-making process by assisting them in gathering the historical, physical, psychosocial, and information necessary to make a differential diagnosis. As an across-the-lifespan illness-focused clinical decision-making course, students are expected to identify signs and symptoms of systemic disease that may be masquerading as musculoskeletal dysfunction. Students will learn to recognize reported and unreported symptoms or medical conditions that can have a serious impact on the health of an individual and that require immediate referral. Emphasis is on critical thinking in the clinical setting and the identification of ‘red flags’ that highlight critical information needed to safely manage the client. (summer)

PHYT 7882 Teaching and Learning for Physical Therapy (1 credit)—This course is designed to assist students with educational and evaluation methods as they are used in physical therapy settings. (summer)

PHYT 7883 Management and Leadership in Physical Therapy (2 credits)—This course will build on the principles learned in Administration and Management. Management and leadership policies and implications that will influence the practice of physical therapy. Students will also study leadership and management principles that can be used to improve patient outcomes and employee satisfaction. (summer)

PHYT 7976 Internship III (6-15 credits)—This course will allow the student to develop and refine skills in a specialty area. The student will be assigned to a clinical site that specializes in the student’s area of interest. The student will be supervised by a professional with documented credentials in the particular specialty area. If the student is in a clinical setting, supervision by a licensed physical therapist will be required. Total maximal contact time: 600 hours. (spring)

Physiology (PHSI)

PHSI 5000/6000 General Physiology (9 credits)—Prerequisite(s): Permission of the instructor. This is a course for study of physical processes and disease in the biomedical sciences which emphasizes the compensatory aspects of regulatory mechanisms in living systems. Lectures and conferences are essential ingredients. (spring)

PHSI 5020/6020 Experimental Basis of Physiology (2 credits)—Prerequisite(s): Permission of the instructor. This course presents classical and current experimental approaches to a number of physiological questions and discusses in depth specific topics and issues in each of the major areas of physiology from the experimental point of view. (every semester)

PHSI 5200/6200 Physiology Seminar (2 credits)—Included are presentations by students and faculty of a review of a topic of interest. Students must be present and participate in discussion. This course can be taken repeatedly for credit. Two hours lecture per week (spring, summer)

PHSI 5300/6300 Intracellular Signaling (3 credits)—Prerequisite(s): General Physiology 5000 or consent of the instructor. This course covers selected topics of current interest in the problems of intracellular signal processing by intact cells. Topics will include AMP, protein kinase C, G proteins, calcium, potassium channels, and channel activation with respect to various cell functions. Emphasis will be placed on review of the current literature and methodology. Objectives will be to achieve detailed understanding of integrative function and signal processing at the cellular level. Offered alternate years. (alternate years)

PHSI 5350/6350 Systems Physiology (3 credits)—Prerequisite(s): General Physiology 5000 or consent of the instructor. This course examines selected aspects of cardiovascular function. Topics presented include multiple aspects of blood pressure control, microvascular physiology, and theoretical considerations required for an understanding of the adverse effects of hypertension. Emphasis will be placed upon examination of research literature. (alternate years)

PHSI 5400/6400 Neuroregulation (3 credits)—Prerequisite(s): General Physiology 5000 or consent of the instructor. This course examines the mechanisms by which cells communicate and how this communication is integrated to regulate specific functions. Topics presented include aspects of signaling in the nervous and endocrine systems, interactions between these systems, regulation of specific functions by the nervous and endocrine systems, and the research techniques used to study questions in these areas. (alternate years)

PHSI 5450/6450 Membrane Transport Biology (3 credits)—Prerequisite(s): General Physiology 5000 or consent of the instructor. This course presents the fundamentals and current understanding of biological transport of solutes and fluid across cell membranes. Membrane physiology will be presented as it relates to biologic transport. Subject matter will be based in part on current literature. Student participation will be required. (alternate years)

PHSI 5500/6500 Special Topics: Introduction to Research (1-5 credits)—This course is intended for beginning graduate students and will be conducted in the laboratory of a potential sponsor of the student’s research. It will include training in
the various technical procedures used in that laboratory and may serve to introduce the student to research methodology in a field of physiology. (variable) Hours by arrangement for variable credit. 

PHSI 5600/6600 Readings and Research Physiology (1-5 credits)—This course involves specific research studies to be conducted in a student’s laboratory in the student’s field of interest. Specific areas of inquiry to be arranged by the student in cooperation with sponsor. Hours by arrangement for variable credit. May be repeated. (variable) 

PHSI 5900/6900 Special Problems (2 credits)— Prerequisite(s): Medical Physiology 5500. This course will provide the student with a critical appraisal of current and classical experimental approaches to the various fields of physiological interest. Students will be introduced to review literature in the field and will be stimulated to a critical examination of the investigative literature. The course will be conducted as a seminar of presentations by faculty, students, and selected investigators. In some areas of inquiry, laboratory exercises will be provided. The fields of interest will cycle over a period of about three years. The current subject matter will be announced at the beginning of each semester. Areas of interest will include: cell biology; cardiovascular, endocrine, pulmonary, and renal physiology; microcirculation and exercise physiology; neurophysiology. This course may be taken repeatedly for credit. Three hours lecture and demonstration per week. (variable) 

PMGT 5900 Thesis Research (1-3 credits)—Supervised research toward thesis is the content of this course. (every semester) 

PHSI 5990/7990 Readings and Research (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus MUST enroll for Readings and Research. Variable credits (1-3) of Readings and Research may also be used, as approved by student’s advisory committee in conjunction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Readings and Research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U). 

PSHI 7960 Physiology Dissertation Research (1-18 credits)—Supervised research toward thesis at the level of the doctoral degree is the content of this course. Generally up to 12 credits; exceptionally up to 18 credits. (every semester)

**Public Management (PMGT)**

**PMGT 5020 Urban Planning Theory** (3 credits)—The course provides the beginning planning student with exposure to classic readings in urban planning subfields in which the students are expected to expand their knowledge base. 

**PMGT 5087 Recreation and Tourism Planning** (3 credits)—A survey of recreation and tourism in the United States and their impact on regional economic planning and development. 

**PMGT 5103 Introduction to Public Administration** (3 credits)—A survey of the history and development of the civil service, as well as the major subfields of the discipline, and the theories and concepts of public administration will be presented. 

**PMGT/GEOG 5107 Urban Geography and Planning** (3 credits)—A geographical analysis of urban growth patterns, location and interaction, analysis, planning for urban regions, and travel. (Same as GEOG 5107) 

**PMGT 5120 Public Personnel Management** (3 credits)—An exploration of the skills and abilities necessary for successful human resource management with some consideration of the history of the civil service as well as recent trends, legislation, and relevant court decisions. 

**PMGT 5140 Public Organization Theory** (3 credits)—This course provides an introduction to the basic theories of organizational structure and behavior as they relate to the public sector. 

**PMGT 5160 Public Budgeting and Finance** (3 credits)—This course provides a survey of public budgeting and finance, with consideration of the various theories and techniques of budgeting, finance, and taxation. 

**PMGT 5180 Public Policy Analysis** (3 credits)—This course provides the basic techniques of policy decision making from a global perspective for the public sector. 

**PMGT 5200 Administrative Law and Practice** (3 credits)—An introduction to the field of administrative law, with a focus on areas of importance to practicing public administrators: tort liability, immunity, regulatory agency rulemaking, and agency adjudication. 

**PMGT 5220 Intergovernmental Relations** (3 credits)—This course provides an introduction to intergovernmental relations and federalism. 

**PMGT 5240 Seminar in Public Management** (3 credits)—Students examine specific cases involving real life instances of public-sector decision making. It helps students to think critically and to understand the role of managers in these decision making processes. 

**PMGT 5260 Seminar in Municipal Services** (3 credits)—This course offers an intensive review of problems in municipal service management, with special attention to public works. 

**PMGT 5280 Seminar in Public Risk Management** (3 credits)—An introduction to the subject of risk management in the public sector. The course examines areas of risk, classification of risk, and ways in which risk can be managed or addressed. 

**PMGT 5300 Not-for-Profit Resource Development** (3 credits)—A survey of not-for-profit development including: (1) how to raise the resources necessary for the survival of a not-for-profit organization, (2) how to recruit and develop human resources, including volunteers and effective board members, and (3) how strategic planning relates to these most vital resources. 

**PMGT 5347 Economic Development Planning** (3 credits)—An introduction to the complexities of local economic development planning. Useful for students wishing to become economic or planning specialists and for community leaders interested in creating development strategies. 

**PMGT 5349 City Management Profession** (3 credits)—Approaches to the management of small cities. Topics include council-manager relations and department heads. 

**PMGT 5520 Urban Government** (3 credits)—An analysis of the complexities of urban government in modern American society. Topics include analysis of intergovernmental relations strengthening inter-local and regional forms and varieties of local government, policies inherent in metropolitan development and multi-jurisdictional urban centers, and integral effects of local and metropolitan policies. 

**PMGT 5537 Local and Regional Planning** (3 credits)—Theories and techniques of planning for small cities, metropolitan areas, and geographic regions. 

**PMGT 5750 Public Sector Financial Management** (3 credits)—Prerequisite(s): PMGT 5160 or one course in accounting. The management of public funds including: cash management, forecasting, investments, purchasing, debt administration, and accounting. 

**PMGT 5800 Public Management Internship** (3 credits)— Prerequisite(s): Permission of M. P. A. Advisor. An experiential learning course that entails an internship experience of 14 weeks with a municipality or other public, private, or not-for-profit agency. The student must locate and acquire his or her own internship. The internship work assignment for this internship generally forms the basis for the M. P. M. Report. 

**PMGT 5820 Public Administration Consultancy** (3 credits)— Prerequisite(s): Permission of M.P.A. Advisor. Supervised consultancy in a municipal government or nonprofit agency. 

**PMGT 5840 Public Management Report** (3 credits)— Prerequisite(s): PMGT 5800 or PMGT 5820. This course requires the student to prepare an in-depth report describing and evaluating his or her experience in PMGT 5800 or 5820 and integrating the experience with knowledge and skills acquired throughout M. P. M. program. Consultation with the director of the M. P. M. program is recommended before enrollment. 

**PMGT 5955 Topics in Public Management** (3 credits)— Prerequisite(s): Dependent on subject matter. Selected topics of current interest in public management. Offered when subject matter and adequate student demand require. Consultation with instructor is recommended before enrollment. 

**PMGT 5990 Readings and Research** (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus MUST enroll for Readings and Research. Variable credits (1-3) of Readings and Research may also be used, as approved by student’s advisory committee in conjunction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Readings and Research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U). 

**Professional Studies (PRST)**

**PRST 5100 Professional Environment: Issues and Ethics** (3 credits)—Overview of ethics in general, with practical tools for assessing ethical dimensions of professional life, diagnosing or identifying the moral issues at hand, and then developing reasonable options to address particular moral and ethical issues. 

**PRST 5200 Globalization and the Professions** (3 credits) — The purpose of this course is to assess the impact of globalization on professional life. The course explores the implications of globalization for the professions of business, commerce, information flow, mass media, government, health care, and education. 

**PRST 5300 Research Methods** (3 credits)—The study and application of research methods appropriate to professional studies. The course will provide a research introduction to research methods, as well as providing practical exposure to Problem Statements, Literature Reviews, Writing the Research Proposal, and Organization of the Research Report. Quantitative and Qualitative Research methodologies will be covered. (fall, spring, summer) 

**PRST 5410 Evaluation of Learning** (3 credits)—Review and discussion of evaluation theory and best practices applied to educational or organizational settings; covers the fundamental methods used to evaluate a course, a program, a series of seminars, an extra-curricular program or the feasibility of an existing service. 

**PRST 5420 Organizational Needs Analysis** (3 credits)—Provides an overview of the knowledge and skills necessary to diagnose organizational needs in order to identify and report those needs by building theoretically as well as practical knowledge and skills.
PSYC 5017 History and Systems of Psychology (3 credits)—Prerequisite: PSYC 1310 or equivalent. A review of the growth of psychology as a scientific discipline including principal systems, theories, and contemporary development.

PSYC 5018 Topical Seminar in History and Systems (1 credit)—Prerequisite: Undergraduate History and Systems from a regionally accredited institution. This course is designed for graduate students who previously completed a History and Systems course during their undergraduate training. The course will include a review of the growth of psychology as a scientific discipline including principal systems, theories, and contemporary development. Prominent figures in the field and seminal figures in the development of the field will be covered extensively.

PSYC 5040 Rural Health Research and Practice (3 hours)—Prerequisite: Undergraduate History and Systems from a regionally accredited institution. This course is designed for graduate students who previously completed a History and Systems course during their undergraduate training. The course will include a review of the growth of psychology as a scientific discipline including principal systems, theories, and contemporary development. Prominent figures in the field and seminal figures in the development of the field will be covered extensively.

PSYC 5100 Legal and Ethical Issues in Psychology (3 credits)—This course is a seminar designed to acquaint students with the American Psychological Association’s Code of Ethical Conduct, the University official standards for counseling psychology, and the University’s official standards for counseling psychology. The course will provide ethical and legal issues of interest to graduate students in psychology and will include the following topics: principles of professionalism, ethical decision making, and legal issues. The course will also include discussions on the ethical and legal issues related to research participation, confidentiality, and professional conduct.

PSYC 5107 History and Systems of Psychology (3 credits)—Prerequisite: PSYC 1310 or equivalent. A review of the growth of psychology as a scientific discipline including principal systems, theories, and contemporary development.

PSYC 5110 Foundations of Leadership (3 credits)—Students will study leadership from a historical, cultural, and contemporary perspective. Topics include historical, cultural, and contemporary perspectives of leadership, leadership theories, and contemporary development.

PSYC 5130 Advanced Developmental Psychology (3 credits)—Prerequisite(s): PSYC 3707, 4230, or 2230. The study of the theories, principles, and research that relate to understanding human development throughout the life span. The course will deal with information concerning all the stages of development, including adult development.

PSYC 5131 Perception and Systems (3 credits)—Prerequisite(s): PSYC 1310. A survey of vision, visual perception, audition, pain perception, color perception, theories of perception, pattern perception, depth perception, chemical sensors, and developmental perception. Various demonstrations and audiovisual presentations are also included.

PSYC 5140 Correlation and Multiple Regression (3 credits)—This course will provide a detailed overview of correlational and multiple regression procedures as used in contemporary psychological research.

PSYC 5530 Sport Psychology (3 credits)—This course is concerned with the application of psychological concepts and principles to sports participation and the sports setting.

PSYC 5560 Child Psychopathology (3 credits)—Prerequisite(s): PSYC 1310, 4320, HDAL 2310. The purpose of the course is to acquaint students with aspects of diagnosis, measurement, and treatment of child psychopathology.

PSYC 5561 Topical Seminar in Developmental Psychology (3 credits)—In this graduate topical seminar, we will read extensively about and critically evaluate an exciting and contemporary subtopic within the larger field of developmental psychology. Specific topics of study will typically vary as the course rotates from semester to semester and from faculty member to faculty member.

PSYC 5562 Topical Seminar in Social Psychology (3 credits)—In this graduate topical seminar, we will read extensively about and critically evaluate an exciting and contemporary subtopic within the larger field of social psychology. Specific topics of study will typically vary as the course rotates from semester to semester and from faculty member to faculty member.

PSYC 5563 Topical Seminar in Cognitive Psychology (3 credits)—In this graduate topical seminar, we will read extensively about and critically evaluate an exciting and contemporary subtopic within the larger field of cognitive psychology. Specific topics of study will typically vary as the course rotates from semester to semester and from faculty member to faculty member.

PSYC 5564 Topical Seminar in Behavioral Neuroscience (3 credits)—In this graduate topical seminar, we will read extensively about and critically evaluate an exciting and contemporary subtopic within the larger field of behavioral neuroscience. Specific topics of study will typically vary as the course rotates from semester to semester and from faculty member to faculty member.

PSYC 5565 Topical Seminar in Applied Psychology (3 credits)—In this graduate topical seminar, we will read extensively about and critically evaluate an exciting and contemporary subtopic within the larger field of applied psychology. Specific topics of study will typically vary as the course rotates from semester to semester and from faculty member to faculty member.

PSYC 5566 Topical Seminar in Clinical Psychology (3 credits)—In this graduate topical seminar, we will read extensively about and critically evaluate an exciting and contemporary subtopic within the larger field of clinical psychology. Specific topics of study will typically vary as the course rotates from semester to semester and from faculty member to faculty member.

PSYC 5570, 5717 Advanced Behavioral Neuroscience (4 credits)—Prerequisite(s): Psychology 3707. A laboratory-based course outlining how the brain interacts with the rest of the body to determine our behavior. Lecture, discussion, and laboratory sessions are integrated to introduce students to modern methods of psychophysiological research as it applies to neuroanatomy, neurophysiology, neuroendocrinology, and biofeedback instrumentation. Areas covered will include the physiological bases of learning, memory, sleep, dreaming, emotion, psychopharmacology, and psychopathology. Classroom discussions and lab sessions will be augmented with readings from recent research articles. (spring)

PSYC 5570 Advanced Behavioral Neuroscience (4 credits)—Prerequisite: Psychology 3707. An upper-level course outlining how the brain interacts with the rest of the body to determine our behavior. Areas covered will include the physiological bases of learning, memory, sleep, dreaming, emotion, psychopharmacology, and psychopathology. Classroom discussions and lab sessions will be augmented with readings from recent research articles. (spring)

PSYC 55717 Advanced Behavioral Neuroscience Lab (1 credit)—Prerequisite: Psychology 3707. A research laboratory course in modern methods of psychophysiological research as it applies to neuroanatomy, neurophysiology, neuroendocrinology, and biofeedback instrumentation. (spring)

PSYC 5580 Teaching in the Psychological Sciences (3 credits)—The purpose of this course is to review the literature pertaining to teaching in the psychological sciences, to develop pedagogically sound techniques through which to present psychological material, and to gain hands-on experience in psychological instruction.
The course is designed to introduce students to issues pertaining to the interface between behavioral science and law, with an emphasis on issues of current practice and ethical issues in forensic psychology.

**PSYC 5817 Introduction to Psychological Testing (3 credits)—Prerequisite(s): Psychology 3100, 3100. A history and overview of the standardized evaluation methods commonly used in the assessment of individuals and groups. Topics include item analysis, statistical properties, and interpretation of test data. The student will be given an overview of ability tests, interest tests, and personality tests. Experience is provided in the administration, scoring, and interpretation of selected tests.**

**PSYC 5820 Abnormal Psychology and permission of instructor. Course is an advanced course in psychopathology aimed at an in-depth review of the DSM as well as conceptualization of diagnosis and treatment processes in clinical psychology. (fall)**

**PSYC 5830 Psychological Assessment I: Adults (3 credits)—Prerequisite(s): Psychology 4100 or 5220, a course in statistics, and permission of the instructor. Administration, scoring and interpretation of the major individual intelligence, cognitive screening, and personality assessments for adults.**

**PSYC 5850 Psychological Assessment II: Children (3 credits)—Prerequisite(s): Psychology 5220 and permission of the instructor. The aim of this course is to familiarize students with a variety of intelligence and personality assessment instruments commonly used in clinical mental health settings with children and to provide experience in administration, scoring, and interpretation of these instruments.**

**PSYC 5870 Interviewing Techniques in Psychology (3 credits)—Prerequisite(s): Abnormal psychology and permission of instructor. This class will introduce students to the history of clinical psychology and will review legal, professional, and ethical issues facing the psychological examiner working in a mental health setting. In addition, the areas of mental status evaluation, psychopharmacological treatment, and case formulation will be covered, and students will be taught fundamental interviewing skills and will participate in supervised interviews. (fall)**

**PSYC 5900 Independent Study in Psychology (1-3 credits)—Prerequisite(s): Permission of instructor. Independent study in consultation with a member of the psychology faculty. The content and the format of the project the student may elect is an original independent research project under the supervision of a member of the psychology faculty. (every semester)**

**PSYC 5910 Clinical Psychology Clerkship (1 credit - repeatable)—Permission of the instructor is required for enrollment in this course. Four to six weeks of supervised field placement in a role of observer or observer participant, for a total of 60 hours of on-site placement.**

**PSYC 5950 Methods of Psychological Research (3 credits)—Prerequisite(s): Psychology 2810 and 5210 or permission of instructor. All psychology graduate students must complete an acceptable thesis to receive a master's degree in psychology. The purpose of this course is to assist the student in this undertaking by providing information on how to select a research problem and how to prepare a final research report. Numerous skills must be developed and cultivated in order to complete a thesis, such as understanding how to use the library or computer search services, and how to read, analyze, and interpret research findings. Each student will be required to prepare a research prospectus in this course. (spring)**

**PSYC 5957 Special Topics in Psychology (1-6 credits)—Prerequisite(s): Permission of instructor. Special offerings in psychology on topics such as group therapy, personality, cognitive processes, etc. (as needed)**

**PSYC 5960 Thesis (3-6 credits)—Prerequisite(s): Permission of instructor. A research project developed and documented under the supervision of a faculty committee. The research project is documented in the form of a thesis. (as needed)**

**PSYC 5990 Readings and Research (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus MUST enroll for Readings and Research. Variable credits (1-3) of Readings and Research may also be used, as approved by student's advisory committee in conjuction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Readings and Research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U).**

**PSYC 6210 Meta-Analytic Research Methods (3 credits)—This course will introduce the student to theory, applications, and techniques of meta-analysis in the behavioral sciences. This course will follow the steps of a systematic research review: problem specification and data collection, analysis, interpretation, discussion, and presentation.**

**PSYC 6410 Covariate Structural Modeling (3 credits)—This course introduces covariance structure analysis. It begins with the notion of a casual structure underlying a set of observable covariances. It will discuss the implications of random measurement error in linear regression models, the concept of uncorrelated variables, and review some of the elementary principles of classical test theory. Concepts will be applied using the popular AMOS structural equation modeling software.**

**PSYC 6810 Advanced Clinical Interviewing (3 credits)—Permission of the instructor is required for enrollment in this course. This course covers both the didactic and applied aspects of psychological interviewing, including varying models of interviewing across a variety of referral situations. Students will conduct taped interviews outside of class for both peer and instructor feedback and evaluation.**

**PSYC 6870 Evidence-based Interventions (3 credits)—Permission of the instructor is required for enrollment in this course. This course will provide a detailed overview of evidence-based psychological interventions for common adult disorders. Topics will include: cognitive-behavioral therapy, group therapy, and the application of empirically supported treatments in various settings such as those found in medical primary care and mental health centers.**

**PSYC 7010 Clinical Psychology Practicum (1 credit)—Prerequisite: Permission of the Director of Clinical Training. This course provides clinical psychology doctoral students with clinical training under the supervision of a departmental faculty member. Direct clinical services, including assessment, consultation, and intervention are provided by the advanced students under the auspices of the ETSU Behavioral Health and Wellness Clinic. Successful completion of one semester of this course is a pre-requisite to enrolling in PSYC 7910 Clinical Psychology Externship.**

**PSYC 7100 Primary Care Psychology I (3 credits)—This course is an in-depth exploration of the psychologist in primary care settings with emphasis on the multiple roles of psychologists in those settings, an understanding of prevention and consultation, developing collaborative relationships with health care providers, understanding of medical terminology, referral processes and time pressure demands, and other pertinent issues.**

**PSYC 7110 Primary Care Psychology II (3 credits)—Prerequisite: PSYC 7100 Primary Care Psychology I. This course is the sequel to PSYC 7100. It is designed to provide the advanced students with a comprehensive analysis of the practical features of the health care system, the role of primary care in our current health care system and differences from the mental health system, and similarities and differences in various primary care settings are included.**

**PSYC 7400 Family Psychology (3 credits)—This course addresses processes that take place in families and other close relationships. Emphasis is placed on evaluating current research on family dynamics within and across generations and on the application of research findings to assessment of family dynamics in clinical settings.**

**PSYC 7410 Advanced Child Psychopathology (3 credits)—This course is an advanced course in psychiatric disorders of childhood and adolescence. Focus is not only on diagnostic criteria used in identifying these disorders, but on normal and abnormal development models. Methods of assessing childhood behavior problems, including clinical interview of child and parent, parent and child checklists, and structured observation are covered, as well as the most effective treatment strategies.**

**PSYC 7420 Substance Abuse Psychology (3 credits)—This is an advanced course covering theoretical perspectives, research, and psychological treatment of substance abuse.**

**PSYC 7450 Group Psychology (3 credits)—Prerequisite: PSYC 6870. The primary purpose of this course is to cover key concepts in assessment of group processes and group intervention strategies and to provide the student with skills in group intervention. The course assumes background in evidence-based psychological interventions.**

**PSYC 7500 Cultural Anthropological Applications to Rural Practice (3 credits)—This course examines beliefs about illness, healing, and the body with an emphasis on cultural influences. Lectures and readings will use case materials drawn from North America, Africa, Central and Latin America, the Pacific, and Asia. The course will begin by distinguishing physical “disease” from the cultural understandings of “illness” and will explore the ways that cultural conceptions shape the experience of illness and mental illness. Cross-cultural examples will be utilized to explore culturally defined perceptions and definitions of mental disorders.**

**PSYC 7550 Community Assessment and Intervention (3 credits)—This course covers key concepts in clinical community and health psychology with particular focus on assessment of community mental and behavioral health issues and design and evaluation of interventions which improve health and prevent disorders in general and special populations. Particular attention will be paid to rural communities and how assessments and interventions can be tailored to fit cultural and social contexts.**

**PSYC 7900 Independent Study in Research (1-3 credits, repeatable)—Supervised research by arrangement with supervising faculty member.**
PSYC 7910 Clinical Internship (1 credit)—Permission of the instructor is required for enrollment in this course. One day per week in a supervised field experience, for a total of 120 clock hours per semester.
PSYC 7960 Doctoral Dissertation in Psychology (3 credits, repeatable to 12)—By arrangement with student’s graduate committee.
PSYC 7980 Pre-Doctoral Internship (1 credit, repeatable to 3)—Full-time clinical psychology internship following the guidelines of the American Psychological Association’s internship program. Arrangements must be made with the American Internship Committee. Must have approval of the Director of Clinical Training to enroll.

Public Health (PUBH)

PUBH 5007 Principles and Practice of Patient Education (3 credits)—In this course students develop skills in the design and use of educational methods and materials to provide specialized education for the patient in the clinical environment.

PUBH 5020 Philosophy of Public Health (1 credit)—Prerequisite(s): Graduate Standing. This course serves as an introduction to public health practice. (pass/fail)

PUBH 5030 Overview of Public Health (3 credits)—This course provides an introduction to public health concepts and practice by examining the philosophy, purpose, history, organization, functions, tools, activities, and results of public health practice at the national, state, and community levels. The course also addresses important health issues and problems facing the public health system. Case studies and a variety of practice-related exercises serve as bases for learner participation in real world public health problem-solving simulations.

PUBH/ACCT/NRSE 5050 Health Care Accounting and Finance (3 credits)—This course applies the concepts of accounting and finance within the context of the health care industry. The course content includes topics on the fundamentals of financial principles and how these principles are applied in the health care arena. Topical coverage includes financial statement preparation and analysis, cash flow analysis, cost behavior and control, capital acquisition, budgeting, reimbursement mechanisms, and managed care.

PUBH 5090 Community Health Assessment Research (3 credits)—Prerequisite(s): Prior or concurrent registration in PUBH 5200 and 5400 or permission of the instructor. Assessing appropriate demographic and health-related data are foundational to addressing health problems in a responsive and effective way. This hands-on course provides students with the opportunity to develop and apply strategies for identifying and prioritizing individual and community health status, risks, and needs. It includes development, administration, analysis, and interpretation of qualitative and quantitative needs assessment strategies including stakeholder interviews, focus groups, and survey questionnaires, which are included in a written course report. Students develop a real world health problem and population to be the focus of assessment research during the semester and in subsequent related courses: PUBH 5120 and 5130.

PUBH 5120 Health Program Planning and Evaluation (3 credits)—Prerequisite: PUBH 5110 or permission of the instructor. This course focuses on the planning of specific health programs and services to meet needs identified in PUBH 5110. Students are guided through the process of developing a written proposal focused on a health intervention using evaluation methods to determine its effectiveness. Once the program is formally proposed, students develop and test pretest program content, materials, and evaluation tools targeting the identified population and health issue in a written project report. Students will develop a real world health problem and population to be the focus of assessment research during the semester and in subsequent related courses: PUBH 5120 and 5130.

PUBH 5125 Rural Health Research and Practice (3 credits) — Prerequisite: PUBH 5400 Principles of Epidemiology or permission of instructor. PUBH 5200 Social and Behavioral Foundations of Public Health or permission of instructor. Co-requisite: PUBH 5375—Health Communication or permission of instructor. This interdisciplinary course with nursing, medicine, public health and other disciplines is the first of a two-semester series of courses which allows students to develop an understanding of rural health issues using community-based participatory research methodology and theory relevant to health sciences. Students and faculty teams partner with rural communities to assess health priorities and develop plans to address identified needs. Both quantitative and qualitative evaluative methods are utilized to assess and analyze health status indicators using appropriate technology.

PUBH 5330 Consulting and Implementation of Health Programs and Services (3 credits)—Prerequisite: PUBH 5120 or permission of the instructor. Building on experiences in previous courses in the program sequence, this course focuses on implementation and evaluation of specific health programs and services that students have designed for community and organization settings. The course integrates guided consultative activities involving group process, training, interpersonal communication, and organizational and community development. The final product is a written research report of the health promotion intervention.

PUBH 5315 Rural Health Projects (3 credits)—Prerequisite: PUBH-5125 Rural Health Research and Practice or permission of instructor. In this course students, working in teams, integrate and use knowledge gained from interdisciplinary teams to develop a community-based health proposal in collaboration with their rural community partners. Through implementing and evaluating the proposed community-based project, students gain hands-on experience in using participatory methods to promote the health of a selected rural population. Students enhance their performance and presentation skills through presenting the results of their community-based health project.

PUBH 5200 Social and Behavioral Foundations of Public Health (3 credits)—This course reviews the concepts and methods of social and behavioral sciences relevant to the identification and solution of public health problems. Social, cultural, economic and environmental factors are discussed as the fundamental determinants upon which health have been developed at the various governmental and community levels.

PUBH 5210 Professional Development for Public Health Practice (2 credits)—This course offers students opportunities to interact with faculty, alumni, preceptors, and health professionals in the context of continuing education workshops covering important public health topics. Students attend 30 contact hours of continuing education seminars over the duration of the course in consultation with their academic advisors.

PUBH 5310 Biostatistics I (3 credits)—This course provides an introduction to the formulation and analysis of public health data. Elements of statistical inference, probability distribution, sampling, confidence interval, and estimation of means and rates are reviewed.

PUBH 5330 Statistical Methods in Epidemiology (3 credits)—Prerequisites: PUBH 5310 and 5400. This is an intermediate class in basic statistical methods used with epidemiological research. This basic skills class focuses on the theory and rationale of the statistical methods used for data analysis. Specific statistical methods will be presented, as well as exercises to refine the student’s skill with data analyses. The class content is presented from a practical perspective. The emphasis of the course is on understanding the fundamental principles, principles of hypothesis testing, and statistical interpretation. A general knowledge of statistics and epidemiological methods is expected, as well as basic computer literacy (SAS or SPSS specifically), and familiarity with intermediate-level biostatistics. The class is taught through lectures and classroom exercises to reinforce these applied skills. This course does not require a background in calculus (e.g., of formulae); rather it aims to provide in-depth training for epidemiological reasoning, calculations, and research methods using statistical analyses and contemporary technology.

PUBH 5340 Health Appraisal Techniques (3 credits)—This course discusses the development of health appraisal counseling to detect health status of selected populations. Records of findings, and the remediation of health problems with appropriate health service personnel are emphasized.

PUBH 5350 Biostatistics II (3 credits)—Prerequisite(s): PUBH 5310 or equivalent. This course introduces advanced statistical techniques. It includes lectures and comprehensive individual projects. The lectures cover topics on linear correlation, simple linear regression, multiple linear regression, and logistic regression. Comprehensive individual projects involve exercises in data analysis and application of a statistical package.

PUBH 5357 Thanatology (3 credits)—This course explores the concept of death, dying, grief and addresses the topics of: medical, legal, social, cultural, and religious view of death both in America and other cultures. Through these studies, students will be able to deal with their own emotions and better understand that death is a natural process of life.

PUBH 5360 Clinical Research: Design and Analysis (3 credits)—This intermediate-level biostatistics course presumes the completion of PUBH 5310 and 5400 or similar content (e.g., topical content from medical and nursing school is acceptable). The design and analysis of clinical trial data is the central content area for this class. Specialized time-series methods used for clinical studies (e.g., smoothing and forecasting methods) are developed relatively as are the multivariable regression techniques of survival, and proportional hazards. Course content related to studies involving human subjects, (e.g., IRB, and HIPAA details) are included. The practical skills of composing “Methods” sections for research proposals and for updating all literature publications are instructed and practiced. Sample size estimation and repeated measures (e.g., stopping rules) solutions are given particular coverage that may appeal to medical and nursing researchers.

PUBH/SPCH 5377 Health Communication (3 credits)—Prerequisite(s): PUBH 5200, or permission of the instructor. This course examines the interpersonal, group, organizational, and public communication processes that shape beliefs, decisions and behavior regarding health, sickness, and health care. Students explore the attitudes and actions of various participants in health communication, including citizens, health professionals, and those engaged in public debate of health issues. (Students cannot receive credit for both SPCH 5377 and PUBH 5377.)

PUBH 5400 Epidemiology I (3 credits)—This class is designed to provide the student with an introduction to the principles of epidemiology and the application of epidemiology to public health practice. The use and analysis of health statistics are emphasized.

PUBH/MGMT 5401 Rural Health Issues (3 credits)—This interdisciplinary course addresses contemporary issues relevant to the delivery of health care in rural areas, particularly those of Appalachia. It focuses on rural communities and is taught in a problem-solving, case project format with interdisciplinary team presentations and discussions.

PUBH 5405 Epidemiology II (3 credits)—Prerequisite(s): PUBH 5400. The purpose of this course is to further develop the methodological concepts underlying the science of epidemiology. The material covered is intended to broaden and extend the student’s understanding of the elements of study design, data analysis, and inference in epidemiologic research, including issues related to causation, bias, and confounding. The primary aim of the course is to provide a working knowledge of the fundamentals of epidemiology as well as to serve as a foundation for more advanced study of epidemiologic methods. The course consists of lectures and workshop sessions. The workshop sessions are designed to reinforce the concepts and topics covered in the lectures.

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### PUBH 5410 Statistical Software for the Health Professions

In this course, multiple computer software packages will be examined for their utility in health data analysis. Sample health data sets are analyzed using software from different packages. Strengths and weaknesses of the various procedures are contrasted as they are applied to the needs of health data analysis.

**Prerequisite(s):** PUBH 5310 and PUBH 5400.

### PUBH 5420 Epidemiology of Chronic Disease

Chronic diseases are the major contributor to disability and premature death in the United States. This course focuses on chronic disease from an epidemiologic perspective. Selected topics, including the major causes of death and disability due to chronic disease, will be covered.

**Prerequisite(s):** PUBH 4000. Infectious diseases remain an important public health problem, even in industrialized countries. This course covers many important groups of infectious diseases in the United States, focusing on the mode of transmission, epidemiology, risk factors, and prevention.

### PUBH 5457 International Health: An Overview of Problems and Issues

This course provides a health professional overview of the historically changing technological and workplace demands, introducing 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.

**Prerequisite(s):** PUBH 4000 and ENVH 5100, or permission of the instructor.

### PUBH 5460 Environmental/Occupational Epidemiology

This course introduces students to epidemiologic investigations of environmental and occupational health hazards. Topics include classic epidemiologic subjects and strategies, such as the health effects associated with air and water contaminants, toxic waste sites, lead, and radiation, as well as environmental exposures that have received attention only recently, such as Agent Orange and electromagnetic fields. The course emphasized epidemiologic methods, particularly exposure assessment, modeling, cluster analysis, and sources of bias. Students gain experience in the critical review and design of related epidemiologic studies.

**Prerequisites:** PUBH 5310 and PUBH 5400 or equivalent content. This course presents an in-depth analysis of factors contributing to the development and spread of infectious diseases. Students will learn methods to study the interrelations among microorganisms and environmental factors. The course will cover the role of wildlife in the transmission of diseases, including emerging and reemerging infectious diseases.

**Prerequisite(s):** PUBH 5400 and ENVH 5100, or permission of the instructor.

### PUBH 5500 Health Service Administration

This course presents managerial theory in a way that demonstrates its generic applicability to all types of health service organizations. This is accomplished by using a process orientation that focuses on managerial functions, concepts, principles and roles within context of health care organizations.

**Prerequisite(s):** PUBH 5500 or permission of the instructor.

### PUBH 5505 Managing Health Care Organizations

This course focuses on current approaches to leadership of health care organizations. Students will be exposed to ethical and technical aspects of the art and science of administering, managing, and leading health care organizations.

**Prerequisite(s):** PUBH 5500 or permission of instructor.

### PUBH 5510 Long-Term Care Administration

This course provides an introduction to the principles and applications of long-term care administration. General management, personnel management, and government regulations will be discussed. This course will enhance a student’s process toward licensure required for long-term care administrators.

**Prerequisite(s):** PUBH 5500 or permission of the instructor.

### PUBH 5525 Health Services Organization and Delivery

This course focuses on the identification and analysis of factors and interrelationships which influence the operation of health care organizations with specific attention to local health departments, hospitals, multi-institutional systems, integrated health systems, and strategic alliances. These organizations will be viewed and discussed comparatively with other types of health service agencies.

**Prerequisite(s):** PUBH 5500 or permission of instructor.

### PUBH 5530 Health Care Organizations and Law

This interdisciplinary course is part of the Health Care Management Certificate Program that is totally online. The focus of the course is to provide an overview of the role of law in the health care system for health care administration.

**Prerequisite(s):** PUBH 5500 or permission of instructor.

### PUBH 5535 Health Policy, Politics, and Analysis

This course is designed for students desiring an in-depth study of health problems in a special area of interest.
cognitive processes, cultural and spiritual forces, socioeconomic status, age, race, gender, and environmental exposure. Students will explore relationships of these health determinants to conduct an ethno epidemiological study and conduct an ethno epidemiological study and conduct an ethno epidemiological study within the context of selected social and behavioral theories. PUBH 6130 Public Health Leadership, Policy Development, and Ethics (3 credits) — This course introduces the conceptual, methodological, and ethical foundations of public health leadership leading to the development and analysis of public health policy at the federal, state, and local levels. An applied systematic approach to the practice of public health policy analysis is provided, focusing on establishing evaluation criteria, identifying policy alternatives, using criteria to analyze alternatives, implementing the proposed policy, and evaluating the outcomes.

PUBH 6150 Evaluation Research in Public Health (3 credits) — Prerequisites: PUBH 5350 and PUBH 5405. This course focuses on all parts of the evaluation process as it applies to the field of public health. Outcome identification will be included as an integral part of this process. Both theoretical and applied perspectives within public health practice are covered, including design, conduct, and outcomes identification for public health program evaluations. The important components of study design, data collection, analysis, interpretation, and report writing are addressed.

PUBH 6160 Systems Approaches to Public Health Issues (3 credits) — This course uses a problem-based learning approach to systems thinking and modeling for critical public health concerns. Students integrate key population level theories (e.g., ecological, PRECEDE, organization, communication) with systems theory in a multilevel investigative process of public health assessment, organization, and evaluation. Case studies and interdisciplinary teamwork provide the tools for student inquiry and the experiences necessary for public health professionals. Students will learn to use models of social science, and the group comparisons within target populations, reporting findings, and interpretation of results. Emphasis will be placed on the processing of public health data and preparing analytic products from them. In the process of their work, students will access emerging as well as existing public health databases and other resources of the Public Health Information Network.

PUBH 6195 Seminar in Public Health (1 credit) — This course provides doctoral students with the opportunity to interact with faculty, researchers, authors, and peers in the diverse arenas of public health practice and research. It employs as readings current research presentations, and group discussions to explore current trends in applied research and practice. Emphasis will be placed as well on research methods as well as outcomes.

PUBH 6210 Health Assessment and Surveillance Research (3 credits) — Prerequisites: PUBH 5405 and PUBH 6170. This course provides skills appropriate for the understanding and practice of public health assessment and surveillance. Emphasis is placed on the theory and techniques of health screening, survey research, and monitoring of health and disease in diverse populations. Students will learn the appropriate use and interpretation of preventive screening tests for the early detection of disease with significant public health implications, surveys useful in gathering health related information, and selected regional and national data sets useful in the ongoing surveillance of disease in large populations.

PUBH 6220 Methods in Community Health Research (3 credits) — Prerequisites: PUBH 5405 and PUBH 6170. This course introduces a variety of qualitative, ethnographic, observational research tools for investigating questions germane to public health. Students practice a variety of data collection and analytic methods including: direct observation, informant interviews, focus groups, and formal methods. Participatory and action research designs and methods are emphasized.

PUBH 6240 Organizing Communities for Health Action (3 credits) — This course provides students with a hands-on systems approach to the theory and practice of community organization for health action, including community mobilization, capacity building, developing and sustaining interdisciplinary collaborations, health education empowerment and evaluation, principles of cultural competency, grant writing, and design of community-based participatory research.

PUBH 6250 Evidence-Based Public Health: Best Practices in Community Health (3 credits) — This course provides skills for using an evidence-based approach to decision making for contemporary public health practitioners. It introduces community health best practices and other evidence-based methods as components of a systematic approach to finding effective interventions to community health challenges in diverse populations.

PUBH 6410 Advanced Epidemiologic Analysis (3 credits) — Prerequisites: PUBH 5405 and PUBH 5350. This course emphasizes the theory and practice of multivariate epidemiologic analysis. The course is focused on understanding the underlying principles and assumptions, practical application, and correct interpretation of the different epidemiologic multivariate models.

PUBH 6420 Applied Epidemiologic Analysis (3 credits) — Prerequisites: PUBH 5405, PUBH 5350, and PUBH 6140. This course is focused on understanding the underlying and understanding of epidemiology and biostatistics to real data and hands-on problems. The objective is to give students experience analyzing epidemiologic data and applying their understanding of key epidemiologic concepts to data analysis tasks they are likely to encounter in their careers.

PUBH 6435 Field Epidemiology (3 credits) — Prerequisites: PUBH 5405 and PUBH 5350. This course addresses the knowledge and skills necessary to successfully conduct epidemiological field investigation. Topics included are questionnaire design, interview scheduling, data collection and analysis, cluster investigations, and the operational logistics required to successfully conduct epidemiologic field investigation.

PUBH 6440 Cardiovascular Epidemiology (3 credits) — Prerequisites: PUBH 5405 and PUBH 5350. Topics will include cardiovascular disease, risk factor epidemiology, and clinical applications. Emphasis will be placed on the application of epidemiologic methods to study cardiovascular disease. Pertinent studies will be reviewed.

PUBH 6450 Cancer Epidemiology (3 credits) — Prerequisites: PUBH 5400 and PUBH 5300. This is a survey course of cancer epidemiology research, including activity of national programs in the United States and Europe. Preventive services, clinical care, outcomes research, and the impact of disparities related to cancer management and its outcomes will be studied. Specific cancer types will also be covered.

PUBH 6460 Reproductive and Perinatal Epidemiology (3 credits) — Prerequisite: PUBH 5405. This course provides an overview of reproductive and perinatal epidemiology. Topics include fertility, birth defects, fetal loss, preterm delivery, and the sequelae of adverse events during pregnancy for the developing infant. There will be an emphasis on understanding the public health dimensions of perinatal outcomes.

PUBH 6850 Doctor of Public Health Practicum (6 credits) — Prerequisite: Permission of student’s program advisor. This course enables students to apply the knowledge and experiences gained in their public health graduate studies. Students develop, implement, and evaluate public health interventions in a community setting. Students work with professionals and community members to develop and implement evidence-based public health interventions. Students will develop, implement, and evaluate public health interventions in a community setting. Students work with professionals and community members to develop and implement evidence-based public health interventions.

PUBH 6960 Doctor of Public Health Dissertation (1-9 credits) — Prerequisite: Successful completion of comprehensive examination. Supervised research toward dissertation with arrangement by the student’s graduate committee. Hours are repeatable but only 9 credits count toward the degree.

Public Relations (PUBR)

PUBR 5301 Topics in Public Relations (1-6 credits) — Prerequisite: PUBR 6130 Media Management (3 credits) — A study of media management; comparative research about various types of media industries and firms and their responsibilities and goals.

PUBR 5320 Public Relations Case Studies (3 credits) — A study of the ethical and professional practices in public relations and mass media through a case study approach. Study includes in-depth examination of controversial topics involving media and public relations in PR firms, corporate communications departments, government agencies, political organizations and non-profit environments.

PUBR 5900 Independent Study in Public Relations (1-3 credits)
middle and secondary school levels; reading skills needed for various content areas. (fall, spring, summer)

RTVF 5441 Research Methods in Communications K-6: Block I (6 credits) — Prerequisite: READ 5442. This course focuses on the objectives, materials, and techniques for teaching reading, writing, listening, and speaking in grades K-6 with emphasis on planning, implementing, and evaluating an integrated program. This course incorporates the analysis and evaluation of children’s literature, including multicultural literature, and its use in language arts and across the curriculum. (fall)

READ 5442 Reading and Communication Classroom Experience K-6 (1 credit) — Prerequisite: Admission to teacher education. Corequisites: READ 5442. This course addresses K-6 classroom experiences, with emphasis on problem-solving skills. Students plan, organize, and complete lessons in an effort to help children acquire skills and knowledge. Activities are based on the assessment of needs and goals. Prerequisites: Admission to teacher education.

READ 5452 Guided Middle Grades Clinical Field Experience I-4 (1 credit) — Prerequisite: Admission to teacher education. Corequisite: READ 5437. This course is a school-based clinical field experience. The course provides the student with an opportunity to work in a middle school classroom setting and with assistance from the cooperating teacher and cooperating principal.

READ 5453 Advanced Middle Grades English Language Arts (4-8) (2 credits) — Prerequisite: Admission to teacher education. MAT students only. Corequisites: EDFN 5420, READ 5452. This course is designed to prepare the candidate for the English Language Arts classroom at middle grade education levels (4-8). It is a course that allows for synthesis of what has been learned, in all prior courses, as the candidate develops and progresses as a professional educator. Various instructional strategies and assessments of learning will be explored within the frame of the classroom, the school, and the community. Major focus of the course is on the interrelatedness of classroom, school, and community where communities of learners live and interact. These will include selecting, planning, and organizing materials for instruction, integrating the English Language Arts with other content fields and technology, focusing instruction that addresses state and national standards, and utilizing performance-based assessment in the classroom.

READ 5750 Literacy Instruction in Linguistically Diverse Classroom (3 credits) — Prerequisite: READ 5120. This course is designed for classroom teachers who wish to supply extra support to English Language Learners (ELL) and to native English speaking students who lack optimal academic language proficiency and facilitation of content learning through informed literacy curriculum and methodology. (spring, even years)

READ 5900 Independent Study (1-6 credits) (as needed)

READ 5960 Thesis (3-6 credits) — Prerequisite(s): Permission of the major advisor. A major research project conducted and reported in approved research style. (fall, spring, summer)

READ 5957 Topics in... (1-6 credits) — Prerequisite(s): Dependent on subject matter. Selected topics of current interest in reading. Offered upon sufficient demand for specific subject matter. May be repeated for different topics. Consultation with the instructor is recommended before enrollment. (as needed)

Radio, Television, Film (RTVF)

RTVF 5401 Topics in Broadcasting (1-6 credits)

RTVF 5900 Independent Study in Broadcasting (1-3 credits)

Sport and Leisure Management (SALM)

SALM 5107 Alpine Tower Leadership (3 credits) — This course utilizes the Alpine Tower Complex as a unique educational modality for developing teamwork, trust, coordination, communication, and respect for the natural 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 5117 Outdoor Leadership (3 credits) — 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 project completion and assessments. Specific course requirements will be established on an individual basis and the course grade assigned according to the established contract.

SALM 5127 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 involves extensive tent camping and travel as part of a group experience.

SALM 5137 Wilderness Education and 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 training skills sufficient to conduct wilderness safely, enjoyably, and with a minimum of environmental and social impact.

SALM 5140 Issues and Trends in Leisure Management (3 credits) — Designed to survey current topics in recreation that are significant to the modern day student. Flexibility is provided to ensure the coverage of special interest areas. (fall, each odd year)

SALM 5150 Sport and Society (3 credits) — This course provides an introduction to the study of sport and its relationship to society and other social institutions. Topics will be analyzed in such a manner that they promote systematic, issue-related thinking among students emphasis of this course is on the current relationships between sport and society. (fall, even years)

SALM 5220 Issues in Sport Management (3 credits) — The purpose of this course is to provide a forum for the discussion of current issues affecting the field of Sport Management. The primary thrust of the course will be directed toward the modern day duties and responsibilities of a sport manager. Course content will vary with the evolution of the field of Sport Management. (fall)

SALM 5225 Planning and Operating Facilities in Physical Education, Fitness and Sports (3 credits) — A study of the principles related to the planning and operation of facilities for physical education, fitness, and sport activities. Emphasis is given to facility development, funding sources, and the maintenance and daily operation of these facilities. (spring, even years)

SALM 5230 Legal Issues in Physical Education and Sport (3 credits) — This course is designed to introduce and familiarize students with basic knowledge of the legal system and legal issues prevalent in physical education, athletics, and sport. This course is designed to explore how legal principles and negligence, where and how negligence occurs and identifying ways in which negligent acts can be reduced or eliminated. Other topics relating to the scope of legal issues will be addressed. These topics will include Title IX of the Education Amendments Act, violence in sport, product liability, drug testing, and transportation issues. (fall)

SALM 5231 Motorsport Operations (3 credits) — Prerequisites: Graduate Student Status. This course is designed to examine the administrative tasks of the modern motorsport professional and acquaint students with various strategies to ensure success in these tasks. Topics of study will include scheduling, delegating authority, decision-making, constructing and administering budgets, motivating and evaluating personnel, understanding motorsport governing bodies, and developing an understanding and appreciation of diversity issues related to the motorsport industry. (spring, even years)

SALM 5232 Sport Communication and Media Relations (3 credits) — This course will provide a framework for understanding the connection between the informational and commercial sides of sport information management. Emphasis will be placed on allowing sport managers to acquire and refine effective ways of communicating, both internally and externally, with all their constituencies. (fall)

SALM 5233 Public Relations and Mass Media in Motorsports (3 credits) — Prerequisite: Graduate Student Status. This course will provide a framework for understanding the connection between the informational and commercial sides of motorsport information management. Emphasis will be placed on allowing students interested in motorsport management to acquire and refine effective ways of communicating, both internally and externally, with their constituencies. (fall, odd years)

SALM 5235 Sport Psychology (3 credits) — The application of psychological concepts and principles to sports participation and the sports setting. (spring)

SALM 5240 Risk Management and Assessment in Sports (3 credits) — Prerequisite(s): SALM 5230. This course is designed to help the physical education teacher, principal, superintendent, fitness center director and sport management team initiate an active program of risk and liability assessment/management that will help ensure the safety of participants and spectators at sporting events and participants in physical activity. Students will learn to assess various sport/fitness/physical activity environments to identify potential risks. (spring, odd years)

SALM 5243 Sport Marketing (3 credits) — This course is designed to provide students with a practical experience in sport marketing as it applies to all areas of the sport industry - professional, intercollegiate, interscholastic, campus recreation amateur, commercial and public sport agencies. (fall)

SALM 5244 Applied Motorsport Marketing (3 credits) — Prerequisite: Graduate Student Status. This course is designed to provide students with practical experiences in motorsport marketing. Emphasis will be placed on utilizing effective marketing techniques in an applied motorsport setting. (spring, odd years)

SALM 5245 The Financing of Sport (3 credits) — This course is designed to provide students comprehensive coverage of many traditional and innovative revenue acquisition methods available to sports organizations. (spring)

SALM 5246 Financial Management and Sponsorship in Motorsports (3 credits) — Prerequisite: Graduate Student Status. This course is designed to provide students with comprehensive coverage of many traditional and innovative revenue acquisition and management methods available to motorsport organizations. (spring, even years)

SALM 5250 Internship in Sport Management (6 credits) — This course will give the sport management student the opportunity to put theory into practice. Students will work in a sport management agency for 40 clock credits per week (minimum of 400 clock credits) for an entire semester. Students will be consulted as to the sport management agency desired for the internship experience. (Students may be compensated for their work.) (fall, spring)

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SCED 5417 Teaching Science in Secondary Schools (3 credits)—Prerequisite(s): Forty-five credits of science or permission of instructor, and admission to teacher education. Methods of teaching science in middle/junior and senior high. Emphasis on classroom management, teaching strategies, laboratory techniques, educational technology appropriate for secondary science teaching, demonstrations, selection of resources and materials, and visual arts. Students will be expected to participate in field experience activities. (fall)

SCED 5454 Science for Middle Grades 4-8 (2 credits)—Prerequisites: Admission to teacher education and READ 5402. Course: CUAI 5458. This course provides a comprehensive integrated science content perspective for initial teacher certification in Middle School Science in the areas of physical, life, earth, and space science. Conceptual understanding, content, skills, and dispositions in science including understanding of the nature of science are explored 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. (as requested)

SCED 5904 Independent Study in Science (1-6 credits) (needed)

SCED 5957 Topics in... (1-6 credits)—Prerequisite(s): Permission of instructor. 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. (as needed)

Sociology (SOCI)

SOCI 5057 Community Sociology (3 credits)—An examination of the issues and concepts of community and the principles of community-based research using theoretical and applied approaches.

SOCI 5087 The Family in Transition (3 credits)—Prerequisite(s): Sociology 1020 or permission of instructor. An analysis of the changing family with an emphasis on the social construction of the family. (variable)

SOCI 5110 Contemporary Social Theory (3 credits)—Prerequisite(s): Sociology 5087 or permission of instructor. This course presents an overview of major schools of social theory. (spring)

SOCI 5157 Sociology of the City (3 credits)—Prerequisite(s): Permission of the instructor. 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. (variable)

SOCI 5210 Sociological Research (3 credits)—Prerequisite(s): Permission of instructor. An overview of the entire research process. Topics include theory and hypotheses, sampling techniques, research designs, and data analysis. (fall)

SOCI 5257 Power, Wealth, and Poverty (3 credits)—Prerequisite(s): Sociology 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. (variable)

SOCI 5315 Seminar in Crime and Delinquency (3 credits)—Prerequisite(s): Permission of instructor. An advanced overview of the most important theories and problems in crime and delinquency. (variable)

SOCI 5320 Program Evaluation (3 credits)—Prerequisite(s): Permission of the instructor. This course provides a perspective on the major theoretical and conceptual approaches to program evaluation. The course will be organized around four facets of program evaluation: Program planning, program monitoring, program impacts, and cost-benefit/cost-effectiveness evaluations. The course will also address the purposes and uses of evaluations, the politics of evaluation, and the reporting of evaluation studies. (variable)

SOCI 5337 Social Psychology (3 credits)—Prerequisite(s): Sociology 1020 or permission of instructor. Study of social interaction, the development of self, and the social construction of reality. (variable)

SOCI 5444 Applied Data Analysis for the Social Sciences (3 credits)—Prerequisite(s): Undergraduate statistics or permission of instructor. This is a computer-intensive course designed to teach students basic skills in quantitative data analysis. Through an applied approach to data analysis and statistics, students will gain practical experience in: using a comprehensive statistical software package, selecting and applying statistical techniques, and interpreting and formally writing the results. (variable)

SOCI 5500 Topical Seminar (3 credits)—Prerequisite(s): Permission of instructor. Study of current specialized area of sociological interest. May be repeated for credit. (variable)

SOCI 5507 Sociology of the Aging (3 credits)—Prerequisite(s): Sociology 1020 or permission of the instructor. An application of basic sociological principles, theories, and research findings to the understanding of the aging and their relationships with other segments of the population. (variable)

SOCI 5557 Population (3 credits)—Major population characteristics, trends, and problems, primarily those of the United States. (variable)

SOCI 5567 Scottish Ethnology (3 credits)—A survey of Scottish ethnic and regional groups and their folk traditions. Topics covered include life history, material culture, subsistence patterns, folk narrative and beliefs and customs. (fall)

SOCI 5570 Sociology of Education (3 credits)—Prerequisite(s): Permission of instructor. This seminar is designed as a survey of theoretical and methodological issues as well as substantive research in the area of aging and life course studies. Issues to be addressed pertain to all of the adult life span. (variable)

SOCI 5590 Independent Study in Sociology (1-3 credits)—Prerequisite(s): Permission of instructor. Topics in Sociology. May be repeated for different topics. Consultation with the instructor is recommended before enrollment. (variable)

SOCI 5596 Thesis (1-3 credits)—Prerequisite(s): Permission of the graduate coordinator. A research project developed and documented in the form of a thesis under the supervision of a graduate advisory committee. No more than 6 hours of thesis may be counted toward the degree. (every semester)

SOCI 5599 Readings and Research (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus MUST enroll for Readings and Research. Variable credits (1-3) of Readings and Research may also be used, as approved by student's advisory committee in conjunction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Readings and Research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory (S), satisfactory progress (SP), or unsatisfactory (U). (variable)

SOCI 5599-99 Internship/Cooperative Education (1-3 credits)—Students must clear arrangements for this course through the Cooperative Education Office prior to registration. Businesses, industries, and government agencies provide opportunities for planned and supervised work assignments. Students may arrange for professional or employee work to be viewed as full-time employment with a cooperative education employer. Credit received carries full academic value, and students may receive compensation as full-time employees. (every semester)

Sociology and Anthropology (SOAA)

SOAO 5357 Mass Communications and Popular Culture (3 credits)—Prerequisite(s): Sociology 1020 or permission of instructor. An examination of the impact of modern communications technology upon traditional lifestyles and world views, particularly entertainments during the 20th century. (variable)

SOAO 5627 Ethnographic Fieldwork Techniques (3 credits)—Prerequisite(s): Sociology 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, ethnography, transcription, and analysis of fieldwork. Practical applications and contemporary social and cultural situations also stressed. (spring)

SOAO 5820 Skills in Applied Sociology and Anthropology (3 credits)—Prerequisite(s): Permission of instructor. An examination of how sociologists and anthropologists apply their theoretical knowledge and research skills, including formulation, implementation, and evaluation of programs designed to solve human problems. (variable)

SOAO 5907 The 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 immigrant influences on mountain cuisine; 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.
Social Work (SOWK)

SOWK 5010 Multicultural Practice (3 credits)—This course examines issues of human diversity. It is designed to provide students with a working knowledge and appreciation of human similarity and difference based on race, ethnicity, culture, class, gender, sexual orientation, religion, physical or mental ability, age and national origin. Particular attention is given to the consequences of racism, oppression and oppression for populations at risk. Students will develop a sensitivity to diversity issues and a heightened awareness of their own feelings, attitudes and behaviors.

SOWK 5012 Human Behavior in the Social Environment I (3 credits)—Offered during the first semester, this course introduces the basic concepts of ecological systems theory as an umbrella for the generalist practice model. Focus is on a life-span approach to human growth, development, and reciprocal interactions with an emphasis on individuals, families, and small groups from an empirically based multi-theory and multi-system perspective utilizing a bi-psycho-social paradigm, and the utilization of this knowledge in assessment and planning.

SOWK 5013 Social Work Practice Foundation I (3 credits)—This course is anchored in the purposes of the social work profession and focuses on the strengths, capacities, and resources of individuals, families, and small groups in relation to their broader environments. Students learn to implement the generalist problem-solving model. Content and skills include the following: engaging clients in an appropriate working relationship; identifying social problems, needs, resources, and assets; collecting and assessing information using empirically based theory; planning for service delivery; using communication skills, supervision, and consultation; identifying, analyzing, and implementing empirically based interventions to achieve client goals; and evaluating practice effectiveness. Content and skills include the social, economic, and political forces that shaped, and continue to shape, social welfare. The course examines social policy formulation processes and improving social welfare services. Frameworks for analyzing policies and services are introduced to identify strengths, gaps, inadequacies, and inequities in social programs and services. The rationale for changing the social welfare system is discussed. Students are provided with an opportunity to apply knowledge, theory, and practice skills with individuals, families, and small groups in community agencies.

SOWK 5014 Social Welfare Policy and Services (3 credits)—This course examines the historical roots, mission, and philosophy of social welfare as an institution responsible for human needs and social problems, as well as the social, economic, and political forces that shaped and continue to shape social welfare. The course reviews the political processes for influencing policy formulation processes and improving social welfare services. Frameworks for analyzing policies and services are introduced to identify strengths, gaps, inadequacies, and inequities in social programs and services. The rationale for changing the social welfare system is discussed. Students are provided with an opportunity to apply knowledge, theory, and practice skills with individuals, families, and small groups in community agencies.

SOWK/NRSE 5110 Interdisciplinary Approaches to Bioethical Issues (3 credits)—Prerequisite(s): Permission of the instructor. This interdisciplinary course examines the theoretical foundations of bioethics. The course analyzes ethical issues of common concern to health care professionals from several disciplines, and promotes understanding of ethical issues within an interprofessional context.

SOWK 5020 Human Behavior in the Social Environment II (3 credits)—Prerequisite(s): SOWK 5012. Offered during the second semester, this course focuses on the reciprocal relationship between individuals and large groups, organizations, and community systems from an empirically based multi-theory and multi-system perspective. Also, the course examines the ways in which social systems promote or deter people in maintaining or achieving health and well-being.

SOWK 5023 Social Work Practice Foundations II (3 credits)—Prerequisite(s): SOWK 5013. This course focuses on the strengths, capacities, and resources of large groups, organizations, and communities in relation to their broader environments. Students broaden their skills in implementing the generalist practice model. Content and skills include the following: assessing large systems using empirically based theory; applying empirical knowledge and technological advances; developing, analyzing, advocating, and providing leadership for policies and services through both worker and supervisory roles. Content on values, ethics, diversity, social and economic justice, and populations at risk are infused throughout this course.

SOWK 5024 Social Welfare Policy Analysis (3 credits)—Prerequisite(s): SOWK 5014. Emphasis is upon the processes and methods for understanding and analyzing social welfare policies/services and their outcomes. Various welfare policy/services assumptions, socioeconomic political values, and analysis frameworks and research methodologies are examined. Also examined are the diverse organizational and political processes available for implementing/influencing welfare policies and services.

SOWK 5025 Social Work Research I (3 credits)—This foundation course is designed to provide students with an understanding of and appreciation for research methods and techniques used by social workers. The basic problem-solving process is presented and related to other social work methods. Students will begin developing skills in research and evaluation methods through the use of practical experiential applications and will learn how to critically evaluate research studies, to raise pertinent researchable questions, and to engage in systematic steps to find answers to those questions.

SOWK 5206 Field Practicum II (4 credits)—Prerequisite(s): SOWK 5106. Offered currently with HBSE II and Practice II during the second semester, this 240-clock-hour course focuses on the community and organizational context of practice and the application of knowledge, theory, and skills to practice with work groups/teams and the development of social welfare policies, systems, and community services.

SOWK 5208 Advanced Standing Bridge Course (3 credits)—This course is required for all advanced standing students and is designed to provide a conceptual orientation necessary for the concentration year graduate program. The goal of this course is to refresh and advance students’ assessment and field skills to generalist social work practice, human behavior and the social environment (HBSE), research methods and literature reviews, and welfare policy analysis in preparation for the concentration year. Social and economic justice, social work values and ethics, populations-at-risk, and diversity are examined in relation to practice, HBSE research, and policy.

SOWK 5226 Gerontological Social Work (3 credits)—This course will provide students with an approach to theories, concepts, and skills required to develop a methodology for social work practice with the elderly and their families. The continuum of support services and community resources will be explored. Students will explore interdisciplinary collaborations and ethical dilemmas, as well as critical thinking about an array of political, social, institutional, and personal issues affecting social work practice with the gerontological population.

SOWK 5303 Advanced Practice with Individuals (3 credits)—This course is designed to provide students with the opportunity to use social work intervention approaches and theoretical constructs in working with individuals. Content on diversity and populations at risk will be woven throughout the course. The focus will be on micro-level assessment and intervention skills for clinical practice.

SOWK 5305 Social Work Research II (3 credits)—Prerequisite(s): SOWK 5205 or equivalent. Offered during the second semester, this course in the research sequence is the first of two courses taught during the concentration year. Students are taught the skills and knowledge of integrating traditional research methods and technology into practice evaluation. Students revisit the quantitative and qualitative research methods and develop a research study for evaluation of practice.

SOWK 5306 Advanced Field Practicum I (3 credits)—This 240-clock-hour course focuses on the development of advanced, integrated social work practice skills with individuals and families. It builds on the social work generalist practicum.

SOWK 5313 Advanced Practice with Families (3 credits)—This course provides students with the advanced social work practice knowledge and skills for ecological and clinical assessments and intervention and theoretical constructs for working with families. The importance of the therapeutic relationship will be emphasized throughout the course. The impact of diversity (culture, race, ethnicity, gender, age, disabilities, sexual orientation, etc.) on the development and application of theory is woven throughout the course.

SOWK 5323 Advanced Practice with Groups (3 credits)—This course extends the knowledge of foundation courses, SOWK 5103 and 5203 and extends that knowledge include advanced practice assessment and intervention skills and theoretical concepts of working with groups, including therapeutic group factors, leadership issues, member roles, and the development of groups. Content on diversity and populations at risk will be woven throughout the course.

SOWK 5324 Child and Family Policy (3 credits)—This course provides students with an understanding of how society’s sense of responsibility for the well-being of its children and families has become the basis for a vast body of public policy, enormous public expenditures, and extensive public debate. This course examines an array of child- and family-oriented policies in our society, with emphasis on child welfare policy and welfare reform. Through this course, students will gain a snapshot of America’s families in the wake of policy changes that are affecting how social services, health and income support programs are designed and administered.

SOWK 5367 Seminar in Alcohol and Drug Abuse (3 credits)—This course provides the student with a basic understanding of alcohol and drug abuse. Various classifications of drugs, specific abuse symptomatology, specific causes of drug abuse, characteristics of high-risk groups, various treatment models, preventative efforts, and regulations controlling the use of drugs in society are examined. General systems theory provides the framework for looking at this societal problem and professional involvement with it.

SOWK 5403 Administrative Practices in Human Services Organizations (3 credits)—This course is intended to provide students with knowledge and application skills in organizational theory, administration, and resource development. This course will present theories of organizational development, maintenance, and communication, as well as professional, ethical, and effective functioning within organizational structures. Students will gain knowledge and build skills in the administrative, educational, and supportive functions of supervision.

SOWK 5405 Social Work Research III (3 credits)—Prerequisite(s): SOWK 5305. This course requires that students develop the skills and knowledge of program evaluation, including collecting and analyzing data, discussion of findings and implications, completion of a paper integrating a literature review and methodology sections, and develop a presentation of their findings. Research
classes emphasize the link between practice and research and the development of research skills for knowledge building.

SOWK 5406 Advanced Field Practicum II (1-9 credits)—The final 360 clock-hour advanced practice practicum is offered during the fourth semester. Focus in this course is on the acquisition of advanced skills in working with small groups and organizations.

SOWK 5430 Psychopathology in Social Work Practice (3 credits)—This course examines the nature and presenting characteristics of the major forms of mental and emotional maladjustment that may contribute to problems in social functioning, adaptation, and life satisfaction. It identifies specific categories of dysfunctional behavior, use of standard criteria, and treatments for dysfunctional behaviors from the social work perspective of a biopsychosocial paradigm. Informed and ethical assessment and service delivery for special populations is addressed.

SOWK 5467 Seminar in School Social Work (3 credits)—This course explores policies, practices, historical developments, and legislative trends affecting social work services in schools. School-community relationships and the impact of societal attitudes upon schools is examined. It also provides an opportunity for students to develop an understanding of theory and practice of social work in schools. Special emphasis is placed on the theory and practice expressed by the Tennessee Department of Education’s “Minimum Competency Requirements—School Social Workers K-12.” Criteria for the Evaluation of School Social Workers,” and NASW Standards of Social Work Services in Schools. This course is offered to social work majors only and is taught each semester of the academic year. (variable)

SOWK 5547 Crisis Intervention (3 credits)—This course explores the various types of crises and approaches to crisis intervention relative to professional practice utilizing general systems theory as 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. This course is offered both semesters of the academic year. (variable)

SOWK 5567 Human Sexuality (3 credits)—This course provides the student with an initial understanding of human sexuality, sexual dysfunction, treatment modalities and resources, preventive programs, and sex education. It introduces students to changes in sexual norms, values, and behavior found among the majority and ethnic and special groups. It also introduces the student to how sexual behavior is learned and developed, i.e., psychosocial development and cultural impact. In addition, students are provided the opportunity for values clarification and exploration of personal and social attitudes toward varying forms of sexual behavior and orientation. Students are encouraged to feel more comfortable and to accept the appropriateness of their professional involvement in this area. This course is offered at least one semester during the academic year. (variable)

SOWK 5957 Special Topics in Social Work (3 credits)—Graduate students, after consultation with the instructor, will be permitted to enroll in some topics. Topics selected relate to fields of practice or current issues in the profession. Three-credit courses may be taken on different topics. This course is offered both semesters of the academic year. (variable)

Spanish (SPAN)

SPAN 5003 Colonial Literature (3 credits)—Prerequisite(s): Spanish 3113. A study of the development of literature in Spanish-America during the 16th, 17th, and 18th centuries.

SPAN 5007 Golden Age Drama (3 credits)—Prerequisite(s): Spanish 3113 or SPAN 3513. A study of the origin of the Spanish theatre through the 17th century, with particular emphasis on Lope de Vega, Tirso de Molina, Juan Ruiz de Alarcon, Calderon de la Barca, and Francisco de Rojas Zorrilla.

SPAN 5017 Advanced Spanish Grammar I (3 credits)—Prerequisite(s): Spanish 3113. A study of complex grammatical aspects of the language such as ser vs. estar, preterite vs. imperfect, and the subjunctive.

SPAN 5027 Advanced Spanish Grammar II (3 credits)—Prerequisite(s): Spanish 3113. A study of complex grammatical aspects of the language such as the subjunctive in adverbial clauses, prepositions, placement of descriptive adjectives, pronouns, verbs used reflexive, and passive voice.

SPAN 5103 Contemporary Spanish Novel (3 credits)—Prerequisite(s): Spanish 3113. Major works of the post-Civil War Spanish novel.

SPAN 5107 Cervantes (3 credits)—Prerequisite(s): Spanish 3113 or SPAN 3513. A study of the major works of Miguel de Cervantes Saavedra, with special emphasis on the Quijote.

SPAN 5117 Hispanic Cinema (3 credits)—Prerequisite(s): Spanish 3313, 3413, 3513, or 3613. A study of cinematic works from Latin America and Spain within the context of Hispanic literature and culture.

SPAN 5118 Advanced Field to the Spanish-Speaking Community (3 credits)—Prerequisite: SPAN 2020 or equivalent. This is a community-based course which provides students with the knowledge and skills to effectively interact with members of Spanish-speaking communities in both social and professional contexts. This course teaches cultural competence and diversity through an interdisciplinary approach involving students and faculty in the promotion of the Spanish-speaking and English-speaking community members. Students complete substantial field experience in Spanish-speaking communities.

SPAN 5137 Translation and Community Outreach (3 credits)—Prerequisite: Spanish 3113. Basic translation skills are taught with a focus on health care and legal interpretation during alternate years. Students prepare written translation exercises that are discussed and corrected in class. This class includes a ten (10) hour service-learning requirement.

SPAN 5147 Interpretation and Community Outreach (3 credits)—Prerequisite: Spanish 3113. The basic interpretation skills of sight translation, consecutive, and simultaneous interpretation are taught with a focus on health care and legal interpretation during alternate years. Students prepare oral interpretation exercises that are presented and critiqued in class. This class includes a ten (10) hour service-learning requirement.

SPAN 5203 Contemporary Spanish-American Novel (3 credits)—Prerequisite(s): Spanish 3113. Major works of the Spanish-American novel since World War II.

SPAN 5207 19th Century Spanish Literature (3 credits)—Prerequisite(s): SPAN 3313 or SPAN 3513. Selected works by the principal 19th-century novelists and dramatists of Spain.

SPAN 5303 Contemporary Spanish Theatre (3 credits)—Prerequisite(s): Spanish 3113. A study of the major dramatic works of post-Civil War Spain.

SPAN 5307 The Generation of ’98 (3 credits)—Prerequisite(s): SPAN 3313 or SPAN 3513. The origin, 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 5403 Contemporary Spanish-American Theatre (3 credits)—Prerequisite(s): Spanish 3113. A study of the major authors and dramatic works in Spanish-America since World War II.

SPAN 5407 20th Century Spanish Literature (3 credits)—Prerequisite(s): Spanish 3313 or SPAN 3513. Selected works by the principal 20th-century novelists and dramatists of Spain.

SPAN 5507 Spanish Short Story (3 credits)—Prerequisite(s): Spanish 3113, 3413, 3513, or 3613. Spanish and Spanish-American short stories from the 19th and 20th centuries.

SPAN 5607 Modernist Movement in Spanish America (3 credits)—Prerequisite(s): Spanish 3413 or SPAN 3613. A study of a Ruben Darbo, his contemporaries, and followers.

SPAN 5707 Spanish-American Theatre (3 credits)—Prerequisite(s): Spanish 3413 or SPAN 3613. Selected works of the principal 19th- and 20th-century dramatists of Spanish America.

SPAN 5737 Art at the Prado Museum (3 credits)—Prerequisite(s): Spanish 3113. A study of the major schools of painting at the Prado, with emphasis on the Spanish artists.

SPAN 5807 Spanish-American Novel (3 credits)—Prerequisite(s): Spanish 3413 or SPAN 3613. Selected works by the principal novelists of Spanish America.

SPAN 5903 Special Studies in Spanish (1-6 credits)—Prerequisite(s): Spanish 3113. Designed to provide opportunities for study in areas not provided for in the regular course offerings for graduates. Students desiring to enroll should obtain permission from the instructor.

SPAN 5957 Topics in Spanish (1-6 credits)—Prerequisite(s): Spanish 3113. This course gives students an opportunity to study special problems and new developments in the field of Spanish Studies.

Speech (SPCH)

SPCH 5100 Foundations of Communication Studies (3 credits)—Familiarizes students with the multiple areas of inquiry in the discipline of Communication and teaches disciplinary standards for advanced-level thinking, writing and research.

SPCH 5200 Gender and Communication (3 credits)—This course investigates how communication practices shape, reinforce, or resist definitions and experiences of gender.

SPCH 5300 Qualitative Research in Communication (3 credits)—An applied examination of qualitative research methods used in Communication study.

SPCH 5317 Rhetoric and Public Address (3 credits)—Historical study of rhetorical theory as applied to manuscripts, speakers, and audiences.

SPCH 5339 Applied Communication Theory (3 credits)—This course investigates traditional, modern, and emerging communication theories as analytical tools to understand how communication operates in a variety of settings.

SPCH 5357 Communication in Organizations (3 credits)—A study of the interpersonal, group, organizational, and public communication processes that shape beliefs, decisions, and behavior regarding health, sickness, and health care. The course examines the attitudes and actions of many participants in health communication, including citizens, health professionals, and those engaged in public debate about health care issues. (Students cannot receive credit for both SPCH 5377 and PUBH 5377.)

SPCH 5377 Health Communications (3 credits)—A study of the interpersonal, group, organizational, and public communication processes that shape beliefs, decisions, and behavior regarding health, sickness, and health care. The course examines the attitudes and actions of many participants in health communication, including citizens, health professionals, and those engaged in public debate about health care issues. (Students cannot receive credit for both SPCH 5377 and PUBH 5377.)

SPCH 5380 Sexual Health Communication (3 credits)—This course examines the role of communication in promoting, maintaining, and hindering sexual health. It is a study of how interpersonal, organizational, and public communication impact sexual health, as well as how sexual health issues impact the dimensions of communication. This course examines both academic and public discourse affecting attitudes and actions.
SPED 5001 Critical Issues in Special Education (3 credits)—This weekly three credits of lecture are intended to coordinate and integrate information from corresponding student reading of research with lectures that identify historically significant events and the current issues that confront the field of special education. The intent is to provide students with experiences in the identification of program and service issues, societal issues, and policy issues in response to the process of delivering special education efforts to persons with disabilities. Students will identify those professional issues that are of immediate concern, through trend and meta-analysis, demographic descriptions and statistical demography projects. Students will present major issue into research questions. Students will attempt a pilot effort to test the tenability of research questions, reporting their results to their peer audience for critical review. (spring)

SPED 5010 Introduction to Young Special Needs Children and Their Families (3 credits)—This course will cover the various characteristics of young special needs children and their families, across and within classifications. 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 nine-credit field experience in an early childhood program will be required.

SPED 5030 Intervention with Developmentally Delayed Preschoolers (4 credits)—This course will examine developmental considerations and intervention strategies to promote optimal development of developmentally delayed and at risk children from ages three to 6 years. Public law 94-142, IDEA and subsequent amendments, various service delivery models, intervention techniques and procedures, curriculum and individualized educational programs will be explored. Particular emphasis will be placed on the role of the interdisciplinary team, integration and inclusion. Fifteen credits of field experience in preschool programs will be required.

SPED 5040 Intervention with Developmentally Delayed Infants and Toddlers (4 credits)—This course will examine intervention strategies to promote optimal development for developmentally delayed and at risk children from birth to age 3. Public law 99-457, various service delivery models, intervention techniques and procedures, curriculum and individualized educational programs will be explored. Particular emphasis will be placed on the role of the primary caretaker as major change agent for the child. Fifteen credits of field experience in infancy/toddler program will be required.

SPED 5050 Assessment of Young Children (3 credits)—This course is designed to develop student’s familiarity with a wide variety of assessment techniques and instruments. Students are required to learn and practice administration of selected instruments. Instruments used by students include some curriculum-based instruments, observation and data collection methods, evaluations of preschool and infant/toddler environments, family interviewing techniques. Students will complete several projects that help them to gain these skills. In addition, issues related to the assessment of young children, children with disabilities and children from different cultural backgrounds are discussed.

SPED 5060 Professional Seminar in Early Intervention (1 credit)—This course is a compilation of two-credit seminars on different current issues in early childhood special education. Each presentation is done by a different professor with interests in the specific issue to be covered. Professors participating come from a variety of different fields related to early childhood special education. Different professors are in charge of the readings or short projects in the identification of and providing instruction to students with learning disabilities are incorporated. In addition, students are presented with information regarding specific academic and social areas needed for instruction.

SPED 5250 Special Education Workshop (1-3 credits)—Special workshops covering various types of exceptionality. (fall, summer, even years)

SPED 5347 Vocational Preparation for Individuals with Disabilities (3 credits)—Prerequisite(s): SPED 3320. The course is designed to provide the student with skills to implement a transition program for school to career and daily living for individuals with disabilities, regardless of category of disability and age considerations. Areas covered include vocational/career assessment, design and implementation of programs utilizing family, agencies, and the business and industrial community.

SPED 5365 Integrating Functional Skills into the Curriculum (3 credits)—This course is designed to provide the theoretical and research basis for curriculum approaches applicable to the student in transition to independent living, 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, and advocacy to accommodate a viable transition toward independent adult living. (fall)

SPED 5410 Preclinical Experience: Behavior Management (1 credit)—Corequisite(s): SPED 5725. 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. 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. Students will also implement a functional analysis project for a specific child’s behavior. (spring)

SPED 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 also include definitions and characteristics of gifted and talented, content modifications for the gifted, and information processing strategies.

SPED 5445 Incorporating Assistive Technology into the Curriculum (3 credits)—This course provides an in-depth examination of assistive technology for individuals with disabilities as it relates to teaching and learning in special education. Emphasis will be placed upon the research basis for using assistive technology with students with special needs. Students will learn avenues to monitor new developments within the field. New applications of existing and developing technology will be explored. Laboratory work with microcomputer technology will be required. (fall)

SPED 5477 Special Education Assessment (3 credits)—This is a lecture-based course covering both formal, informal, curriculum-based diagnostic and assessment instruments. Their usefulness and non-usefulness will be covered. Students will have experience in the administration and scoring of at least one nationally norm-referenced test. Students will complete one case study. (spring)

SPED 5478 Collaboration with Families, Agencies and Schools (3 credits)—This course is designed to introduce students to the principles, problems and procedures of working in collaboration with parents of individuals with disabilities as well as with agencies and professional organizations involved in the delivery of services to persons with disabilities. The course provides an overview of different approaches, current issues, and problems involved in working in collaboration with families from multiple agencies. Emphasis is placed on being a member of a professional team, interviewing and consulting with teachers and parents, and providing leadership in instruction and instructional adaptation. (spring)

SPED 5497 Curriculum in Special Education (3 credits)—This course provides an in-depth examination of effective curriculum and instruction 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 5500 History, Issues and Trends in Educating Exceptional Learners (3 credits)—This course supports the goals of the College of Education and the Special Education Program by preparing educators to become leaders in the special education. This course assists students in acquiring the knowledge and skills needed to function well as an educator in a changing and diverse society; and understanding of learners and learning processes; a knowledge of professional, ethical, and legal issues affecting educators; and the human skills needed to work effectively with individuals with disabilities in both professional and community roles. (fall, spring)

SPED 5550 Advanced Practicum in Special Education (3 credits)—Trainees enrolled in SPED 5560 spend ninety (90) hours, in a supervised practicum experience working with children who have disabilities. Each student has a university practicum supervisor and is placed in an setting with an onsite supervisor identified. Settings for trainees vary with the student’s interests and could include preschool special education classes, early intervention programs, local school system special education or integrated classrooms, or transitional settings. This course is used for those electing a NON-CERTIFICATION option. (fall, spring)

SPED 5567 Special Educating Persons with Mental Retardation (3 credits)—This course focuses on assessment of individuals with mental retardation. Specific topics include the history, nature, causes, characteristics, and identification of persons with 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.

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SPED 5700 Instructional Techniques for the Inclusive Classroom (3 credits)—This course is designed to provide the student with skills needed to interpret curricular and instructional materials and develop strategies for students with disabilities of all grade levels to function in the least restrictive environment. Emphasis will be placed upon research proven strategies and teaching techniques appropriate for the inclusive classroom. Students will develop the ability to implement strategies and teaching techniques based upon empirical research. In addition, students will be able to select and adapt strategies and materials appropriate 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. (fall)

SPED 5725 Management Strategies for Severe Behaviors (3 credits)—Corequisite(s): SPED 5410: Preclinical Experience: Behavior Management. This course will provide students with the research and theoretical basis of applied behavior analysis. Students will be instructed in management strategies related to persons with disabilities who demonstrate severe challenging behaviors. Emphasis will be given to functional assessment to enable students to complete a functional behavioral assessment of a student or adult with a challenging behavior. This course will include instruction in ecological assessment, databased decision making, and instructional strategies that can be used to develop interventions for children and youth with severe behavior disorders. (spring)

SPED 5750 Transition to Adult Life and the World of Work (3 credits)—This course is designed to provide the student with the legal, theoretical and research basis for transition programs. Students will develop skills to implement secondary programs for youths and young adults with mild, moderate, or severe disabilities to ensure successful transitions to adult life roles, including vocational, community, and social-personal. Topics to be covered include: characteristics and needs of youths with disabilities; laws and the historical basis for services; individualized transition planning and services; vocational, academic, and career planning and assessments, career and vocational education; job experiences; employability skills; self-advocacy; transition to community, and self-determination, collaboration with adult agencies and businesses; post-secondary education and training; and special topics, such as inclusive and community-based programs. (fall)

SPED 5757 Curriculum-Based Assessment (3 credits)—This course is designed to help students acquire assessment skills needed to make instructional decisions, monitor progress and promote successful participation in the general education and special education curricula. Classroom-based methods of curriculum, learning, performance, and behavioral assessments will be presented; including data collection, monitoring and implementing interventions making curriculum adaptations, and using data to make instructional decisions. (fall)

SPED 5825 Preclinical Experience in Curriculum (1 credit)—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. Curriculum instructional strategies and effective practices will be practiced. Thirty hours of fieldwork is required. (spring)

SPED 5850 Clinical Experience in Special Education (6 credits)—Clinical Experience in Special Education is a prearranged, supervised student teaching experience in a special education setting for one semester for 6 semester hours of credit, leading to licensure in Special Education (1-3) of Readings and Research. Over the course of the semester, the student will increase their roles in the classroom, culminating in assuming the role and responsibilities of a fully functioning special educator. Written plans, journal and students teaching portfolio will be developed. Placements will be made within a 45-minute radius of ETSU main campus. (fall, spring)

SPED 5957 Topics in Special Education (1-6 credits) (fall)

STOR 5147 Basic Storytelling (3 credits)—Study of and practice in storytelling. Use of storytelling in various settings including classrooms, libraries, churches, homes, and as public events. (fall, summer)

READ 5190 Linguistics of Reading (3 credits)—Relationships of local dialects to reading; alphabets; phonology; morphology, syntax, and semantics as related to reading; aspects of psycholinguistics which are primarily linguistic. (fall, summer)

NOTE: There are separate sections of this course for Reading and Storytelling majors.

STOR 5200 Contemporary Issues in Storytelling (1-3 credits)—This course addresses current issues and developments in the discipline of storytelling. Subjects range from artistic and practical aspects of performance to specialized uses of storytelling in the professions. The focus is on advanced performance techniques, technological advances and/or uses of storytelling in various venues such as education, entertainment, health occupations and/ or disabilities. (fall)

STOR 5230 Advanced Storytelling (3 credits)—An in-depth study of specific, advanced techniques of storytelling in both delivery and use. Includes an analysis of nationally known tellers and current issues in storytelling. (summer)

STOR 5241 Practicum in Storytelling (1-6 credits)—Prerequisites: (1) 12 graduate credits in reading. Supervised individual and/or group teaching or storytelling activity; may be repeated for a maximum of (up to) six semester hours of credit.

STOR 5817 Practical Applications of Storytelling: National Storytelling Festival Experience (1 credit)—Prerequisite(s): Permission of instructor. This course provides the student with training in planning, directing, and administering a storytelling festival. Festival activities introduce the student to various telling styles and content. (fall)

STOR 5827 Storytelling Resource Evaluation (1-6 credits)—Prerequisite: Permission of instructor. This course is designed to prepare the student to expertly evaluate storytelling resources. May be repeated (fall and spring semesters)

STOR 5830 Storytelling Institutes (1-2 credits)—Prerequisite(s): Permission of instructor. This course is designed to develop and refine the student’s ability as a storyteller. Emphasis will be placed on voice, movement, non-verbal behaviors, dialectic and linguistic factors, appearance, and posture. May be repeated for a maximum of (up to) three semester hours of credit. (as needed)

STOR 5850 Story Crafting (1-3 credits)—Prerequisite(s): Permission of instructor. This course will research story motifs and culminate in the creation of original stories. May be repeated for a maximum of (up to) three semester hours of credit. (as needed)

STOR 5870 Multicultural Storytelling (1-3 credits)—Prerequisite(s): Permission of instructor. This course provides an overview of multicultural storytelling and an examination of the research on the impact of specific cultures on the storytelling medium. May be repeated for a maximum of (up to) three semester hours of credit. (as needed)

STOR 5920 Storytelling and Publishing; Ed. and Pub. (1 credit)—Prerequisite(s): Permission of instructor. This course provides students with experiences in the creation of a storytelling journal. The seven-step process for journal completion will be studied. (fall, spring)

STOR 5980 Historical and Psychological Foundations of Storytelling (3 credits)—Prerequisite(s): Permission of instructor. This course analyzes the historical aspects of the story/content, the teller/delivery, and the audience/reception. (spring)

STOR 5990 Independent Study (1-6 credits) (as needed)

STOR 5997 Topics in... (1-6 credits)—Prerequisite(s): Dependent on subject matter. Selected topics of current interest in reading. Offered upon sufficient demand for specific subject matter. May be repeated for different topics. Consultation with the instructor is recommended before enrollment. (as needed)

STOR 5990 Thesis (3-6 credits)—Prerequisite(s): Permission of the major advisor. A student directed research project conducted and reported in approved research style. (fall, spring, summer)

STOR 5961 Storytelling Capstone Project (Non-Thesis) (3 credits)—Prerequisite(s): Core and Concentration requirements or permission of advisor. A major creative, research, or service-based piece of work. Flexible format that can combine written work with performance and audio- or videotape documentation. (fall, spring, summer)

STOR 5990 Readings and Research (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus MUST enroll for Readings and Research. One to three credits (1-3) of Readings and Research may also be used, as approved by student’s advisory committee in conjunction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Readable research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U). (fall, spring, summer)

Surveying and Mapping (SURV)

SURV 5110 Physical Geodesy (3 credits)—Prerequisite(s): MATH 1920, SURV 3560 or permission of instructor. Fundamentals of the physical environment influences on geometry used in surveying and geodesy; Considerers gravity, earth rotation, polar wandering, equipotential surfaces, geoid models, ellipsoidal heights, orthometric heights, GPS elevations, Fast Fourier Analysis, meeting published measurement standards and related subjects. Lecture and laboratory. (on demand)

SURV 5517 Photogrammetry (4 credits)—Prerequisite(s): SURV 3510, and 3520, or permission of instructor. Use of aerial photographs for mapping; geometry of single photo and stereographic models; scale and relief displacement; vertical and tilted photos; parallax; photo mosaics; ground control; stereoplotters; resection; orthophotos; oblique photos; remote sensing. Lecture and laboratory. (fall, even years)

SURV 5533 Land Boundary Location (4 credits)—Prerequisite(s): SURV 3510 and 3520 or three years experience in surveying or in real estate. Role of the surveyor in retracing land boundaries; methods of boundary establishment; classification and analysis of boundary evidence; laws governing riparian boundaries; preparing deed descriptions and survey plans; preservation of survey evidence; surveyor as expert witness; ethics, liability, and professionalism in surveying. Lecture and laboratory. (fall, even years)

SURV 5547 Land Subdivision and Platting (4 credits)—Prerequisite(s): SURV 3510, 3520, and 4530 or permission of instructor. Physical elements of designing land subdivisions including circulation systems, sewer systems, drainage
systems, soils and earthwork grading considerations, erosion control, lot and block arrangement, topography and existing land use factors, geometric analysis procedures, presentations to city planning and zoning boards. (fall, even years)

SURV 5567 Positioning with GPS (3 credits)—Prerequisite(s): SURV 3560 or permission of instructor. A course designed to utilize GPS for data collection and post-processing, methods for adjusting networks, explore the reliability of networks, use of continuously operating reference systems (CORS), geometry of satellite constellation, vector processing strategies, the effects of atmospheric constraints on long baselines, utilization of on-the-fly technology, precise ephemeris generation, and differential corrections. (fall, even years)

SURV 5617 Digital Imagery Processing (3 credits)—Prerequisite(s): MATH 1920, SURV 4517/5517, GEOG 4237 or permission of instructor. Use of software to analyze, enhance and display satellite images from many sources. Project based course to determine needs for land use planning, environmental preservation and sustainable development. Presentations to local planning departments and other interested parties. (fall, even years)

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### Theatre (THEA)

THEA 5417 Teaching Theatre in Grades K-12 (3 credits)—A study of methods and materials for teaching theatre in elementary and secondary schools.

THEA 5527 Advanced Scenographic Design (3 credits, repeatable)—Prerequisite(s): THEA 2520, 3330, 3335. May be repeated under each of the following: areas scenery, lighting, costuming. The study of advanced theatrical design principles and appropriate play analysis.

THEA 5537 Advanced Play Direction (3 credits)—Prerequisite(s): THEA 3530. The planning, preparation, and performance of actual productions for the practical development of the fundamentals, methods, and procedures of play direction.

THEA 5547 Dramatic Theory and Criticism (3 credits)—Prerequisite(s): THEA 1500. A study of the critical writings on the theory of dramatic form from Aristotle to the present with an understanding of philosophical and social foundations as they relate to theatrical standards of dramatic art.

THEA 5557 Playwriting (3 credits)—Prerequisite(s): THEA 2530. A study of the organization of the parts of a play in dramas of different styles and types followed by exercises in writing dramatic exposition, characterization, and plot development for the foundation of an original play.

THEA 5567 Theatre Practicum (1 credit)—Prerequisite(s): Permission of instructor through audition. May be repeated. For juniors, seniors, and graduate students only. Participation as a performer or stage manager in planning, rehearsal, and performance of an ETSU Theatre Production under faculty direction.

THEA 5637 Theatre Management (3 credits)—Procedures used on stage, house, and business management of a theatre operation.

THEA 5647 Theatre Architecture and Design (3 credits)—Prerequisite(s): THEA 2520 and THEA 3330 or permission of instructor. This course will survey the changes in theatre architecture from the 5th century B.C. to the present. Students in this course will learn about modern facility design practices and about federal and state laws that affect the design of both new facilities and renovation of existing facilities.

THEA 5707 Theatre Internship (1-9 credits)—Prerequisite(s): Permission of department chair and concurrence of host theatre. Experience in professional non-academic theatre under supervision of professional staff. Interns may work in a single area of specialty or in rotation throughout host theatre’s operation and may contract for single term or academic year.

THEA 5857 Period Acting Styles (3 credits)—Prerequisite(s): THEA 3510. Acting Styles from ancient Greece through Restoration, utilizing language, research, scene work, movement, and masks.

THEA 5867 Summer Theatre Performance (3 credits)—Prerequisite(s): Permission of instructor through audition. Participation in rehearsals and performance of an ETSU Summer Theatre production under faculty or guest artist direction.

THEA 5960 Thesis (1-6 credits)—Prerequisite(s): Consent of instructor. A research project developed and written under the supervision of a faculty committee.

THEA 5957 Special Topics in Theatre (1-6 credits)

THEA 5990 Readings and Research (1-3 credits)—Students who are not enrolled in other coursework but require the use of university facilities and/or faculty guidance for studies, research, or preparation of a prospectus MUST enroll for Readings and Research. Variable credits (1-3) of Readings and Research may also be used, as approved by student’s advisory committee in conjunction with other coursework, to document such activities as development of research and scholarly skills that would not be appropriately covered by other types of independent study. Readings and Research credits do not count toward degree requirements. Grading of Readings and Research will be either satisfactory completion (S), satisfactory progress (SP), or unsatisfactory (U).
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<tr>
<th>Name</th>
<th>Field</th>
<th>Years</th>
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<tbody>
<tr>
<td>Beck, Scott H.</td>
<td>Sociology and Anthropology</td>
<td>1984</td>
<td>Florida International University</td>
</tr>
<tr>
<td>Blowers, Sally S.</td>
<td>Nursing</td>
<td>1995</td>
<td>Columbia, University of Rochester</td>
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<tr>
<td>Boggs, Teresa L.</td>
<td>Communicative Disorders</td>
<td>1998</td>
<td>University of Rochester</td>
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<tr>
<td>Bounds, Toni</td>
<td>Biostatistics and Epidemiology</td>
<td>2008</td>
<td>University of Tennessee</td>
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<tr>
<td>Braswell, Michael C.</td>
<td>Criminal Justice and Criminology</td>
<td>1977</td>
<td>University of Southern Mississippi</td>
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<td>Bitter, James R.</td>
<td>Human Development and Learning</td>
<td>1995</td>
<td>Gonzauga University</td>
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<tr>
<td>Blackhart, Ginette C.</td>
<td>Psychology</td>
<td>2006</td>
<td>Eastern Washington University</td>
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<tr>
<td>Blackman, Mary Dave</td>
<td>Music</td>
<td>1997</td>
<td>University of South Carolina</td>
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<tr>
<td>Blankenship, Cecil N.</td>
<td>Human Development and Learning</td>
<td>1971</td>
<td>East Tennessee State University</td>
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<tr>
<td>Blanton, William Hugh</td>
<td>Technology and Geomatics</td>
<td>1999</td>
<td>University of Houston</td>
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<td>Blauenstein, Richard J.</td>
<td>Sociology and Anthropology</td>
<td>1970</td>
<td>Brooklyn College</td>
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<td>Breese, Ute H.</td>
<td>Physical Therapy</td>
<td>2000</td>
<td>University of New York</td>
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<tr>
<td>Breuel, Kevin F.</td>
<td>OB/GYN Adjunct Faculty</td>
<td>1992</td>
<td>Eastern Tennessee State University</td>
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<tr>
<td>Brown, Danny Anderson</td>
<td>Communication Associate Dean</td>
<td>1984</td>
<td>University of Massachusetts-Amherst</td>
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<td>Brown, Russell W.</td>
<td>Psychology</td>
<td>2000</td>
<td>University of Oklahoma</td>
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<td>Brown, Stacy D.</td>
<td>Pharmaceutical Sciences</td>
<td>2007</td>
<td>University of Tennessee</td>
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<tr>
<td>Burnley, Cynthia S.</td>
<td>Sociology and Anthropology</td>
<td>1969</td>
<td>Brooklyn College</td>
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<td>Byington, Randy L.</td>
<td>Allied Health Sciences</td>
<td>2006</td>
<td>University of Tennessee</td>
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<tr>
<td>Cabello, Olga A.</td>
<td>Director for Government Relations</td>
<td>2005</td>
<td>University of Tennessee</td>
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<tr>
<td>Caijka, Karen</td>
<td>English</td>
<td>2004</td>
<td>University of Virginia</td>
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</tbody>
</table>
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.

Calhoun, Larry D. (2005) Professor ........................... Pharmacy Practice

Calhoun, Sandy K. (2003) Assistant Professor ................. Nursing

Campbell, Susan (2008) Assistant Professor .................. Biochemistry and Molecular Biology
B.S., 1992, East Tennessee State University; Ph.D., 2001, Quillen College of Medicine, East Tennessee State University.

Cantrell, Peggy J. (1982) Professor ............................... Psychology
B.S., 1976, Virginia Commonwealth University; M.A., 1979 and Ph.D., 1982, University of Southern Mississippi.

Caton, Benjamin D., III (1972) Professor ...................... Music

Cavender, Anthony (1988) Professor ..................... Sociology and Anthropology

Chakraborty, Ranjan N. (2001) Associate Professor .............. Chair, Health Sciences
B.S., 1979, Gujarat University, India; M.S., 1981, University of Baroda, India; Ph.D., 1993, Sardar Patel University, India.

Chambers, Cynthia R. (2007) Professor ........................ Human Development and Learning
B.S., 2001, Georgia College and State University; M.Ed., 2002, Peabody College, Vanderbilt University; Ph.D., 2007, University of Kansas.

Champney, W. Scott, (1982) Professor ............................. Interim Chair, Biochemistry and Molecular Biology

Champouillon, David (2000) Associate Professor ................ Music

Chase, Patricia A. (2000) Professor ....................... Communicative Disorders
B.S., 1975 and M.S., 1976, East Carolina University; Ph.D., 1997, Vanderbilt University.

Chen, Catherine (Ke) (2006) Assistant Professor ................ Geosciences
B.S., 1998, Nanjing University; M.S., 2001, Beijing Normal University; Ph.D., 2006, University of Cincinnati.

Chen, Weixing (1995) Professor ................................. Chair, Political Science
B.A., 1982, Shandong University, China; M.A., 1986, College of International Relations, China; Ph.D., 1992, Northern Illinois University. ETSU Distinguished Faculty Award, 2003.

Cherry, Shirley J. (2007) Assistant Professor ................ Program Director, Radiography

Chi, David S. (1980) Professor .............................. Internal Medicine
Adjunct Faculty, Microbiology/Pathology/Pharmacology
Chief, Division of Biomedical Research
B.S., 1965, National Chung-Hsing University, China; M.A., 1974 and Ph.D., 1977, University of Texas Medical Branch.

Chu, Ting-Heng (2001) Associate Professor .................... Economics and Finance

Chua, Balvin H. L. (1994) Professor .......................... Pharmacology
B.S., 1969, National Taiwan University; Ph.D., 1975, University of Wisconsin, Madison.

Clark, Andrew W. (2002) Professor .......................... Technology and Geomatics
B.S., 1975, Colorado State University; M.S., 1978, University of Wisconsin; Ph.D., 1980, North Carolina State University.


Close, David M. (1978) Professor ..................... Physics and Astronony

Cody, Michael A. (2001) Associate Professor .................. English
Director, University Honors
B.A., 1993, University of North Carolina; M.A., 1995, Western Carolina University; Ph.D., 2000, University of South Carolina.


B.S., 1977 and Ph.D., 1984, West Virginia University.

Collins, Martha D. (1993) Professor ....................... Curriculum and Instruction

Copp, Martha (1993) Professor ..................... Chair, Sociology and Anthropology

Cornett, Cheryl G. (2002) Associate Professor ................ Technology and Geomatics

Counterme, Terry A. (1990) Professor ....................... Chair, Computer and Information Sciences

Creekmore, Jr., Freddy M. (2007) Associate Professor ........... Vice Chair, Pharmacy Practice
B.S., 1989 and Pharm.D., 1990, University of Kentucky, College of Pharmacy.

Creekmore, Kathryn A. (2007) Assistant Professor ................ Pharmacy Practice
B.S., 1989 and Pharm.D., 1990, University of Minnesota, College of Pharmacy.

Crofts, Thomas H. (2004) Associate Professor ............... English

Cronin, Patrick J. (2001) Professor ........................ Communication Artist in Residence

Croke, William (2008) Assistant Professor .......................... Foreign Languages

Crowe, Gayle (2007) Instructor .............................. Nursing

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.

Cutson, Patricia A. (2004) Assistant Professor ................ Communication
B.A., 1982, Grove City College; M.A., 1984, University of Hartford; Ph.D., 1988, Purdue University.

Czechry, Andrew J. (1992) Professor ........................ Technology and Geomatics
Chairholder, AFG Industries Chair of Excellence in Business and Technology

Dalton, Bruce O. (2003) Associate Professor .................. Social Work
B.A., 1982, University of Michigan-Flint; M.S.W., 1988, University of Michigan; Ph.D., 1995, Rutgers University.
Dalton, William T. (2007) Assistant Professor ................. Psychology
B.S., 1987, Mississippi State University;
M.A., 1999, Appalachian State University;
Ph.D., 2006, University of Memphis.

Daniels, Harold L. (2000) Associate Professor ............ Curriculum and Instruction
B.A., 1983 and M.A., 1993, Appalachian State University;
Ph.D., 1996, Virginia Polytechnic Institute and State University.

Davenport, Mary Jo (1997) Assistant Professor .......... Physical Therapy
B.S. and Certificate in Physical Therapy, 1973, University of Michigan;
M.S., 1990, Vanderbilt University.

Davis, Don R. (2000) Associate Professor ........ Art and Design
B.F.A., 1972, University of Florida;
M.F.A., 1974, Rhode Island School of Design.

Davis, T. Jason (2002) Assistant Professor .......... Kinesiology, Leisure and Sport Sciences
B.S., 1994 and M.S., 1996, Georgia Southern University;
Ph.D., 2003, Clemson University.

Day, Ronnie M. (1968) Professor ......................... History
B.A., 1963, Cumberland College;

Deadman, Alison P. (1998) Associate Professor ........ Music
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;

Dearing, Robin Lennon (2004) Assistant Professor ........ Social Work

Defoe, Dennis M. (1996) Professor ............. Anatomy and Cell Biology
B.A., 1974, University of Colorado;
Ph.D., 1981, University of California.

Disque, J. Graham (1994) Professor ............. Human Development and Learning
B.A., 1980, St. Andrews Presbyterian College;
M.A., 1987, Appalachian State University;
Ph.D., 1992, Virginia Polytechnic Institute and State University.

Dixon, David (1989) Associate Professor ........... Art and Design

Dixon, Wallace E., Jr. (2002) Professor .............. Chair, Psychology
B.A., 1985, University of Toledo;

Dorgan, Kelly (2003) Associate Professor .......... Communication
B.S., 1990, Appalachian State University;
M.A., 1991, University of Kentucky;
Ph.D., 2001, University of Georgia.

Dosser, Marcia Edgeworth (2005) Clinical Instructor .......... Curriculum and Instruction

Dotson, Deborah L. (2003) Assistant Professor .......... Dental Hygiene

Dotterweich, Andrew R. (2008) Assistant Professor ........ Kinesiology, Leisure and Sport Sciences
B.S., 1996, Clemson University;
M.S.S., 1998, United States Sports Academy;
Ph.D., 2005, Clemson University.

B.A., 1973, University of Tennessee;

Drinkard-Hawkshaw, Dorothy (1989) Professor .......... History
Ph.D., 1974, Catholic University of America.

B.S., 1963, George Peabody College;
M.S., 1965, University of Wisconsin;
Ph.D., 1977, University of Tennessee.

Dula, Christopher S. (2004) Assistant Professor ........ Psychology
B.A., B.S., 1996, University of North Carolina-Charlotte;
M.A., 2000, Appalachian State University;
Ph.D., 2003, Virginia Polytechnic Institute and State University.

Dunond, Julie B. (2007) Assistant Professor .......... Pharmacy Practice
B.S., 2000, Michigan State University;

Dunham-Taylor, Janne (1998) Professor ............. Graduate Programs
B.S., 1968, Michigan State University;
M.S., 1975 and Ph.D., 1982, University of Michigan.

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.

Dyar, M. Wayne (1983) Professor ............. Art and Design
B.S., 1973, Madison College;
M.F.A., 1983, Radford University;
ETSU Distinguished Faculty Award 1999.

Ecay, Tom W. (1995) Associate Professor .......... Physiology

Edwards, Joellen B. (1989) Professor ............ Associate Dean of Research
A.D.N., 1974, Kent State University;
B.S.N., 1979, Ohio University;
M.S.N., 1982, West Virginia University;
Ph.D., 1988, Ohio University.

Ekstrom, Michelle J. (2005) Clinical Instructor .......... Communicative Disorders
B.S.Ed., 1998, Western Carolina University Honors College;
M.S., 2000, East Tennessee State University.

Elangovan, Saravanan (2005) Assistant Professor .......... Communicative Disorders
B.S., 1995 and M.S., 1998, All India Institute of Speech and Hearing
Ph.D., 2005, East Carolina University.

B.A., 1975, University of Khartoum;
M.A., 1981, University of Sheffield;
Ph.D., 1995, Oklahoma State University.

Ellis, Jon B. (1999) Professor ............. Psychology
B.S., 1973, Virginia Polytechnic Institute and State University;
M.S., 1981, Radford University;
Ph.D., 1989, University of Southern Mississippi.

Ellwanger, Steven (2005) Assistant Professor .......... Criminal Justice and Criminology
Ph.D., 2005, Washington State University.

Epps, Susan B. (2001) Assistant Clinical Professor .......... Physical Therapy
B.A., 1988, Wake Forest University;
M.A., 1995, Appalachian State University;

Essin, Emmett M. (1967) Professor .......... History
A.B., 1964, Austin College;
ETSU Distinguished Faculty Member, 1976.

B.S., 1982, Tusculum College;

Everett, Michael David (1977) Professor .......... Economics and Finance

Fagelson, Marc A. (1996) 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 .......................... Health Sciences
B.S., 1976, University of Southwestern Louisiana;
M.B.A., 1991, Middle Tennessee State University;
M.Ed., 1985, University of Southwestern Louisiana;
Ed.D., 1997, University of Tennessee.

Felker, Lon S. (1988) Professor ................................. Political Science
A.B., 1968, University of South Carolina;

B.S., 1975 and M.S., 1976, University of Florida;
Ph.D., 1982, Louisiana State University School of Medicine.

Fitzgerald, Martin R. (2003) Associate Professor ................... Technology and Geomatics
B.M., 1984, Indiana University-Bloomington;
M.M., 1986, State University of New York-Stony Brook.

Florence, James E. (1999) Associate Professor ............. Community Health Interim Chair
B.S., 1974, California Baptist College;

Floyd, Andrea R. (2009) Assistant Professor ................. Psychology

Floyd, Michael R. (1989) Associate Professor .................. Family Medicine Adjunct Faculty, Psychiatry
B.S., 1970, University of Georgia;

Foley, Virginia P. (2007) Assistant Professor ...... Educational Leadership and Policy Analysis
B.S., 1976 and M.A., 1978, Tennessee Technological University;
Ed.D., 1988, State University of West Georgia;
Ed.D., 1996, University of Alabama.

Forsman, Allan D. (1998) Associate Professor ............... Health Sciences
B.S., 1984, University of North Dakota;
M.S., 1988 and Ph.D., 1991, University of North Dakota School of Medicine.

Fox, James J., III (1999) Professor .................... Human Development and Learning Associate Research Director, Center for Early Childhood Learning and Development
B.A., 1972, College of William and Mary;
M.A., 1975, University of Richmond;
Ph.D., 1982, University of Tennessee.

Franklin, Jay (2004) Assistant Professor ...................... Sociology and Anthropology

Franklin, Kathryn K. (2005) Associate Professor .................. Educational Leadership and Policy Analysis
B.S., 1977, University of Alabama;
M.B.A., 1991, Middle Tennessee State University;

Distinguished Faculty Award, 1996.

Funk, Robert David (1998) Professor .......................... Communication
B.S., 1976, Western Carolina University;

Gallagher, Michael T. (1989) Professor ....................... Health Sciences
B.S., 1966, University of Houston;
M.S., 1970, Northwestern University;
Ph.D., 1974, Baylor College of Medicine.

Gann, Rosalind R. (2002) Associate Professor .................. Curriculum and Instruction
B.A., 1970, Brooklyn College, City University of New York;
M.S.W., 1974, Smith College;

Gao, Yongli (2004) Associate Professor ................... Geosciences
B.S., 1991 and M.S., 1994, Beijing University;
M.S., 2002 and Ph.D., 2002, University of Minnesota.

Garcia, Loni T. (2006) Associate Dean ......................... Student Affairs, College of Pharmacy
B.S., 1978 and M.S., 1984, University of North Carolina, Chapel Hill.

Gardner, Robert B. (1993) Professor .......................... Mathematics
ETSU Distinguished Faculty Award 1998.

Garrett, Linda H. (2002) Assistant Professor ................ Nursing

Gerard, Mira (2001) Associate Professor ..................... Art and Design
M.F.A., 2001 University of Georgia.

Ghaffari, Masoud (2002) Associate Professor .................. Nursing
B.S., 1978, Institute of Paramedical Sciences;
M.Ed., 1996, Cleveland State University;
M.S.N./B.S.N., 1999, University of Akron;
Ph.D., 2001, Cleveland State University.

Gillespie, Wayne, Jr. (2001) Associate Professor ........... Criminal Justice and Criminology
Assistant Dean, School of Graduate Studies
B.A., 1993, College of William and Mary;
M.A., 1998, East Tennessee State University;
Ph.D., 2001, University of Kentucky.

Glascock, Catherine H. (2008) Professor ................... Chair, Educational Leadership and Policy Analysis
B.S., 1978, Ohio Dominican College;
M.B.A., 1987, Louisiana Tech University;
Ph.D., 1996, Louisiana State University.

Glenn, Loyd Lee (1992) Professor ............................... Nursing
B.A., 1974, University of California;
Ph.D., 1979, Stanford University.

Gloeckler, Phyllis (2007) Assistant Professor ............. Human Development and Learning
B.A., 1972, Catholic University of America;
M.A., 1993, Appalachian State University;
Ph.D., 2006, University of North Carolina at Greensboro.


Godbole, Anant (2000) Professor ....................... Chair, Mathematics
B.Sc., 1975, Bombay University, India;

Gold, Jeffrey B. (1978) Professor ......................... Philosophy and Humanities
B.A., 1973, University of Wisconsin;

Govett, Aimée L. (2003) Associate Professor ................. Curriculum and Instruction

Granberry, Nancy C. (2005) Assistant Professor ................ Nursing
B.S., 1981, University of South Alabama;
M.S., 1986, Florida International University;
M.S.N., 1991, Troy State University;

Graves, Travis H. (2005) Assistant Professor .............. Art and Design
B.F.A., 1996, Iowa State University;
M.F.A., University of Wisconsin-Madison.

Green, J. Keith (2002) Associate Professor ................ Philosophy and Humanities
A.B., 1980, Saint Olaf College;
M.Div., 1984, Yale University;

Gregg, Christopher E. (2005) Assistant Professor ........ Geosciences
B.S., 1992, Tennessee Technological University;
M.Sc., 1998, University of Canterbury, New Zealand;
Ph.D., 2005, University of Hawaii at Manoa.

B.A., 1988, Old Dominion University;
M.A., 1990, Indiana University, Bloomington;
Ph.D., 1996, Old Dominion University.
B.S., 1968, Southern Missionary College;
M.S.W., 1981 and Ph.D., 1992, University of Texas-Arlington.

Grover, Kathleen M. (1976) Assistant Professor. English
B.A., 1964, Florida State University;
M.A., 1967, Memphis State University.

Gunter, Charles R., Jr. (1964) Associate Professor. Geosciences
B.S., 1962, Middle Tennessee State University;
M.A., 1963, University of Tennessee.

Guntupalli, Vijaya Kumar (2006) Assistant Professor. Communicative Disorders
B.S., 1999 and M.S., 2001, All India Institute of Speech and Hearing, University of Mysore;
Ph.D., 2007, East Carolina University.

Hagelberg, Frank B. (2007) Associate Professor. Physics and Astronomy

Hale, Kimberly (2008) Associate Professor. Human Development and Learning
B.S., 1987, Virginia Polytechnic Institute and State University;
M.S., 1991, Radford University;
Ph.D., 2005, Virginia Polytechnic Institute and State University.


Haley, Darryl E. (1999) Associate 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.

B.Ph., 1969, University of North Dakota, Grand Forks;
M.S.W., 1976, Barry University, Miami Shores, Florida;
Ph.D., 1999, University of Tennessee.

Hamdy, Ronald C. (1985) Professor. Center for Geriatrics and Gerontology

Hamm, Dennis G., Jr. (1998) Instructor. Criminal Justice and Criminology
Advisor, College of Arts and Sciences
B.S., 1967, East Tennessee State University;
M.Div., 1970, Southern Seminary;
M.Ed., 1978, University of Virginia;
D.Min., 1980, Union Seminary in Virginia.

Hancock, John (1977) Professor. Pharmacology
B.S., 1962, University of Missouri-Kansas City;
M.S., 1965 and Ph.D., 1967, University of Texas. ETSU Distinguished Faculty Award, 2001.

Hanley, Gregory Alan (2005) Assistant Professor. Pharmacology
Director, DLAR
B.S., 1987, State University of New York, Geneseo;

Harirforoosh, Saeidreza (2007) Assistant Professor. Pharmaceutical Sciences
Pharm.D., 1991, Tehran University;
Ph.D., 2003, University of Alberta.

Harrington, Karen A. (1986) Associate Professor. Foreign Languages
Ph.D., 1986, University of California, Los Angeles.

Harrison, Theresa A. Associate Professor. Anatomy and Cell Biology
B.S., 1973, Tufts University;
Ph.D., 1979, Harvard University.

B.S.N., 1981, Grand View College;
M.S., 1985, University of Minnesota;
Ph.D., 1997, Georgia State University.

Hayman, J. Russell (2002) Associate Professor. Microbiology
B.S., 1987, Mississippi College;
Ph.D., 1995, University of Mississippi Medical Center.

B.S., 1975 and M.S., 1984, Eastern Kentucky University;
Ph.D., 1988, University of Central Florida.

Heil, Katrina (2007) Assistant Professor. Foreign Languages
B.A., 1998, Trinity University;
M.A., 2001, University of North Carolina at Chapel Hill;
Ph.D., 2006, University of Texas at Austin.

Helgott, Michael (2004) Associate Professor. Mathematics
B.S., 1972, Universidad de San Marcos;
M.S., 1994, Northern Arizona State University;

Hempill, William K. (1992) Associate Professor. Technology and Geomatics
Adjunct Faculty, Obstetrics and Gynecology
B.S.M.E., 1981, University of Tennessee, Knoxville;
M.S., 1992, East Tennessee State University.

Henry, Robin (2007) Director. Experiential Education
M.B.A., 2007, East Tennessee State University;
Pharm.D., 2001, Mercer University Southern School of Pharmacy.

Henson, Gary D. (1989) Assistant Professor. Physics and Astronomy
B.S., 1979, University of Central Arizona;
M.S., 1982, University of New Mexico;
Ph.D., 1989, University of Oregon.

Herrin, Mindy (2004) Assistant Professor. Art and Design
B.F.A., 1998, Texas Tech University;

Herrin, Roberta T. (1976) Professor. Chair, Appalachian Studies
Director, Center for Appalachian Studies and Services
B.S., 1970 and M.A., 1972, East Tennessee State University;
Ph.D., 1986, University of Tennessee.

Hess, Jr., Richard A. (2007) Assistant Professor. Pharmacy Practice
B.S., 1992, University of South Florida;
Pharm.D., 1998, Mercer University Southern School of Pharmacy.

Hester, Wendell H. (1975) Associate Professor. Sociology and Anthropology
A.B., 1965, University of Miami;

Hillhouse, Joel (1990) Associate Professor. Community Health
B.S., 1981, Valparaiso University;

B.A., 1962 and M.A., 1964, Trinity University;
Ph.D., 1972, Southern Methodist University.

Ph.D., 2003, University of Wyoming.

Ho, Chu-Ngi (1983) Associate Professor. Chemistry
B.S., 1975, Denison University;
Ph.D., 1980, University of Washington.

Holland, Mark (1986) Professor. English
B.A., 1972, Heidelberg College;

Holmes, Thomas Alan (1996) Associate Professor. English
Associate Dean, College of Arts and Sciences

Hoover, Donald B. (1978) Professor. Pharmacology
B.S., 1972, Grove City College;
Ph.D., 1976, West Virginia University.

ETSU Distinguished Faculty Award, 2002.
Hopson, Victor W. (1977) Associate Professor ..................... Dental Hygiene
D.D.S., 1973, University of Tennessee Medical Units.

B.S., 1963, Muhlenberg College;
M.S., 1963, Pennsylvania State University;
Ph.D., 1971, University of Colorado.

Hossler, Susan M. (2001) Assistant Professor .................. Nursing
B.S.N., 1994, East Tennessee State University;
M.S.N., 1995, University of Tennessee, Knoxville.

Hriso, Peter (2002) Assistant Professor .................. Technology and Geomatics
B.S., 1992, University of Southern Indiana;
M.F.A., 1994, Ohio State University.

Hull, Vida J. (1986) Professor ..................... Art and Design
B.A., 1968, Rollins College;
M.A., 1970, Ohio State University;
Ph.D., 1979, Bryn Mawr College.

B.S., 1979, Guilford College;

Hurwitz, Rhona S. (1991) Professor ............... Chair, Curriculum and Instruction
B.A., 1972, Connecticut College;
M.Ed., 1973, University of North Dakota;
Ed.D., 1988, University of Houston.

Hutson, Sadie P. (2005) Assistant Professor .......... Nursing
B.S.N., 1998, University of Wisconsin, Madison;

Hyder, Carroll R. (1967) Associate Professor .......... Associate Dean
College of Business and Technology
B.S., 1967 and M.S., 1967, East Tennessee State University;
Ph.D., 1971, Ohio State University.

Ignace, Richard (2003) Associate Professor ...... Physics and Astronomy
B.S., 1991, Indiana University;

Irwin, Ned (1994) Archivist ..................... University Libraries
B.S., 1977, East Tennessee State University;
M.S.L.S., 1987, University of Tennessee, Knoxville.

Isbell, Rebecca T. (1975) Senior Affiliate Faculty .......... Human Development and Learning
Director, Center for Early Childhood Learning and Development
Faculty Emerita
B.S., 1964, University of Tennessee;
M.A., 1975, East Tennessee State University;
Ed.D., 1979, University of Tennessee;
ETSU Distinguished Faculty Award, 1994.

Jackson, Frances A. (2000) Associate Professor .......... Nursing
B.A., 1972, Vanderbilt University;
B.S.N., 1990, East Tennessee State University;
M.S.N., 2000, University of Virginia.

Janette, Thomas S. (1979) Professor ..................... Music

Jiang, Yu-Lin (2006) Assistant Professor ..................... Chemistry
B.S., 1986 and M.S., 1989, Jinlin University;
M.S., 1997 and Ph.D., 2000, University of Adelaide.

Johnson, David A. (1978) Professor ............... Biochemistry and Molecular Biology
Adjunct Faculty, Biological Sciences
B.S., 1967 and Ph.D., 1973, Memphis State University;
ETSU Foundation Research Award, 1987.

Johnson, Donald Ray (1983) Professor .............. English Poet in Residence
Ph.D., 1972, University of Wisconsin-Madison.
ETSU Foundation Research Award, 1991.

Johnson, Keith V. (1993) Professor .... Chair, Technology and Geomatics
B.S., 1987 and M.S., 1988, North Carolina A&T State University;
Ph.D., 1993, Ohio State University.

Jones, Jodi Polaha (2006) Assistant Professor ............ Psychology

Jones, Thomas Charles (2006) Assistant Professor ........... Biological Sciences
B.S., 1990 and M.S., 1993, Cleveland State University;
Ph.D., 2000, Ohio State University.

Joplin, Karl H. (1994) Associate Professor ........... Biological Sciences
B.S., 1973, University of Washington;
M.S., 1982 and Ph.D., 1989, Ohio State University.

Adjunct Faculty, Internal Medicine
B.S., 1965, Davidson College;
M.S.P.H., 1967 and Ph.D., 1971, University of North Carolina, Chapel Hill.

Kady, Ismail (1990) Associate Professor ............... Chemistry
B.S., 1977 and M.S., 1979, University of Jordan;
Ph.D., 1986, Michigan State University.

Kalbfleisch, John H. (1988) Professor ............ Medical Education
Director, Division of Biometry and Medical Computing
B.S., 1965 and M.A., 1966, Western Michigan University;
Ph.D., 1970, University of Oklahoma.

Kamolnick, Paul (1991) Professor ............ Sociology and Anthropology

Kao, Race L. (1992) Professor ................... Surgery
Adjunct Faculty, Physiology
Chairholder, Carroll H. Long Chair in Surgical Research
B.S., 1965, National Taiwan University, Taiwan;
M.S., 1971 and Ph.D., 1972, University of Illinois.

Kaplan, Amy I. (1994) Associate Professor .......... Nursing
B.S.N., 1991, Wilmington College;
M.S.N., 1994, East Tennessee State University.

Karsai, Istvan (2001) Associate Professor ............... Biological Sciences

Faculty Emeritus
B.S., 1961, Teacher’s College, Tehran, Iran;
Ph.D., 1969, University of Wisconsin.

Keene, Kevin S. (2004) Assistant Professor .......... Allied Health Sciences
Director of Clinical Education
Cardiopulmonary Science
B.S., 2001 and M.S., 2002, Mountain State University;
M.B.A., 2004, King College.

Kelly, Edward J. (1997) Associate Professor ...... Educational Leadership and Policy Analysis
B.S., 1973, State University of New York;
J.D., 1977, State University of New York at Buffalo, School of Law.

Khoury, Amal J. (2007) Associate Professor .......... Interim Chair, Health Services Administration
B.S., 1991 and M.P.H., 1993, American University of Beirut;
Ph.D., 1998, Johns Hopkins University Bloomberg School of Public Health.

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) Professor ..................... Communication

King, Karen D. (1990) Professor ............. Associate Vice President for Academic Technology
A.S., 1979 and B.S., 1981, East Tennessee State University;
M.H.Ed., 1983, Medical College of Georgia.

Kinsler, Amber E. (1997) Professor ........... Chair, Communication
B.A., 1987 and M.A., 1989, University of South Florida;
Ph.D., 1996, Purdue University;
ETSU Distinguished Faculty Award, 2009.

Kirkby, Scott (2003) Associate Professor .............. Chemistry
B.S., 1989, University of Western Ontario;
Ph.D., 1996, University of Toronto.

East Tennessee State University
Kirkwood, William (1978) Professor | Communication
Associate Vice President for Academic Affairs and Executive Director, Office of Planning and Analysis

Knight, W. Hal (1986) Professor | Educational Leadership and Policy Analysis
Dean, Clemmer College of Education

Knisley, Debra (1990) Professor | Mathematics
B.S., 1976 and M.S., 1979, Tennessee Technological University; Ph.D., 1989, Memphis State University.

Knisley, Jeff (1990) Associate Professor | Mathematics

Kornwiel, Karen (2007) Assistant Professor | English

Kostrzewa, Richard M. (1976) Professor | Pharmacology

Koterbay, Scott M. (1998) Associate Professor | Art and Design

Krider, Jamie B. (1997) Professor | Human Development and Learning
B.S., 1976 and M.S., 1977, University of Tennessee; Ph.D., 1985, The Ohio State University.

Kruppa, Michael (2008) Assistant Professor | Microbiology
B.S., 1992, Saint Mary’s University; Ph.D., 2000, University of Texas-Health Sciences Center at San Antonio.

Kumar, Dhirendra (2005) Assistant Professor | Biological Sciences

Kumaraguru, Uday (2005) Assistant Professor | Microbiology
M.Sc., 1986 and Ph.D., 1993, University of Madras, India.

Lakey, Chad E. (2008) Assistant Professor | Psychology
B.S., 2003, Western Carolina University; M.S., 2005 and Ph.D., 2008, University of Georgia.

Lampley, James H. (2005) Assistant Professor | Educational Leadership and Policy Analysis
B.S., 1973, Middle Tennessee State University; M.S., 1974, University of Tennessee; Ed.D., 1999, East Tennessee State University.

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.

Langelun, Mary (1993) Associate Professor | Human Development and Learning
B.S., 1974 and M.S., 1976, University of Kentucky; Ph.D., 1986, University of Tennessee.

Laughlin, Thomas F. (2003) Associate Professor | Biological Sciences

Lauzon, Catherine M. (2007) Instructor | Nursing

Lee, Tom (2006) Assistant Professor | History

Leger, Jerry (1973) Professor | Sociology and Anthropology
Director of Planning and Development, Community Partnership Center

Leigh-Paffenroth, Elizabeth (2005) Assistant Professor | Communicative Disorders
B.S., 1990, Texas Tech University; M.S., 1993, East Carolina University; Ph.D., 2003, University of Wisconsin, Madison.


Levy, Foster (1989) Professor | Biological Sciences
Director of Undergraduate Research and Creative Activities, Honors College

Lewis, Angela Radford (2004) Associate Professor | Curriculum and Instruction
Associate Dean, Clemmer College of Education
B.S., 1984, M.S., 1987, M.V.T.E., Middle Tennessee State University; Ph.D., 2003, University of Tennessee.

Li, Chuanfu (1996) Professor | Surgery
Adjunct Faculty, Pharmacology

Liang, Beichen (2007) Assistant Professor | Management and Marketing

Lichtenwalner, Shawna (2005) Assistant Professor | English
B.A., 1994, Nebraska Wesleyan University; M.A., 1996, University of Nebraska; Ph.D., 2004, Auburn University.

Littleton, Mary Ann (2002) Associate Professor | Community Health
B.A., 1985, University of California-Santa Cruz; Ph.D., 2001, University of Alabama-Birmingham.

Liu, Suefeng (2008) Assistant Professor | Biostatistics and Epidemiology
B.S., 1993, Yangzhou University, China; M.S., 2002 and Ph.D., 2006, University of Florida.

Liu, Yali (2005) Assistant Professor | Mathematics
B.S., 1996, Northwestern Polytechnical University, Xi’an, China; M.S., 1999, Peking University, China; M.S., 2002 and Ph.D., 2005, Purdue University.

Liu, Yusheng (2006) Assistant Professor | Biological Sciences
B.S.C., 1986, Sichuan University; M.S., 1999, Peking University, China; B.S., 1996, Northwestern Polytechnical University, Xi’an, China; M.S., 2002 and Ph.D., 2006, University of Florida.

Lohaus, Jo Alison (1990) Assistant Professor | Assistant Dean, School of Continuing Studies and Academic Outreach
Chair, Cross-Disciplinary Studies

Loesch, Kurt H. (1998) Assistant Professor | Management and Marketing

Low, Brenda (2009) Professor | Chair, Communicative Disorders
B.S., 1976, University of Pretoria, South Africa; M.S., 1977, University of Alabama; Ph.D., 1986, University of Pretoria, South Africa.

Lowry, Elizabeth (1999) Assistant Professor | Allied Health Sciences
B.S., 1974 and M.S., 1982, University of Tennessee.

Lugo, Ralph A. (2006) Professor | Chair, Pharmacy Practice
B.S., 1988, Rutgers University; Pharm.D., 1991, University of North Carolina at Chapel Hill.
Luttermoser, Donald G. (1996) Associate Professor .......... Chair, Physics and Astronomy

Lynch, Andy (2004) Assistant Professor ................. Communication

B.S., 1978, Greensboro College; M.S.W., 1985, University of North Carolina at Chapel Hill.

MacAvoy, Leslie (2000) Associate Professor ............. Philosophy and Humanities

Macara, W. Frederick (1975) Associate Professor .......... Economics and Finance
A.B., 1969, Rutgers University; Ph.D., 1976, Texas A&M University.

Faculty Emerita

Macrae, Norma (1987) Professor ................. Curriculum and Instruction

Maier, Kurt J. (2000) Associate Professor ............. Environmental Health


Educational Leadership and Policy Analysis
Vice President for University Advancement

Marchioni, Michael P. (1976) Associate Professor .......... Economics, Finance, Geography, and Urban Studies

Marks, Lori (1993) Professor .......... Human Development and Learning


Martin, Brian C. (2006) Assistant Professor .......... Health Services Administration

Martin, Kathy L. (2007) Associate Professor .......... Nursing
B.S.N., 1976, University of Central Arkansas; M.S.N., 1977, University of Alabama—Birmingham; Ph.D., 1993, Vanderbilt University.

Maxson, Brian Jeffrey (2008) Assistant Professor .......... History

McCallister, Leslie A. (2003) Associate Professor .......... Sociology and Anthropology
Graduate Coordinator

McConnell, Peggy R. (1974) Associate Professor .......... Nursing

McCook, Judy G. (1997) Associate Professor .......... 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.

McDowell, Timothy D. (1998) Associate Professor .......... Biological Sciences

McGarry, Theresa (2004) Assistant Professor .......... English

McGowen, Kathleen Ramsey (1985) Professor .......... Psychiatry and Behavioral Sciences

McIntosh, Cecilia A. (1993) Professor .......... Biological Sciences
Dean, School of Graduate Studies
Adjunct Faculty, Biochemistry and Molecular Biology

McKee, Thomas E. (1976) Professor .......... Accountancy

McKinney, Michael M. (1994) Associate Professor .......... Management and Marketing
Assistant Dean for External Programs and Relations
College of Business and Technology

McLain, Raymond W. (2000) Associate Professor .... Appalachian Studies
Director, Bluegrass, Old Time, and Country Music

Mead, Jim I. (2008) Professor .......... Chair, Geosciences

Meier, Lori (2008) Assistant Professor .......... Curriculum and Instruction

Melendez, E. Jane (1986) Professor .......... Curriculum and Instruction
Faculty Emerita

Merriman, Carolyn S. (1985) Associate Professor .......... Nursing
B.S.N., 1979, University of Evansville; M.S., 1983, Texas Women’s University.

Mets, Tricia (2005) Assistant Professor .......... Environmental Health

Michie, Martha (2006) Assistant Professor .......... English

Mijeski, Kenneth J. (1971) Professor .......... Political Science
B.A., 1966, Florida State University; Ph.D., 1971, University of North Carolina—Chapel Hill.

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, Hugh A., III (1988) Associate Professor .......... Biological Sciences
B.S., 1979, East Tennessee State University;
Ph.D., 1986, University of Tennessee.

Miller, Larry S. (1984) Professor ..................... Chair, Criminal Justice and Criminology
B.A., 1974, East Tennessee State University;
M.S., 1977, Eastern Kentucky University;
Ph.D., 1981, University of Tennessee.
ETSU Distinguished Faculty Award, 2004.

Miller, Merry N. (1995) Professor .................... Chair, Psychiatry and Behavioral Sciences
B.S., 1975, Southwestern-Memphis;
M.S., 1983, University of Tennessee;

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.

Mink, Patricia (2003) Associate Professor ............. Art and Design
B.A., 1981, Kalamazoo College;

B.A., 1974, Virginia Polytechnic Institute;
M.A., 1976, Western Kentucky University;
Ph.D., 1992, Indiana State University.

Monaco, Paul J. (1987) Professor .................. Anatomy and Cell Biology
B.A., 1974, Merrimack College;

Mooney, James J. (1970) Professor ............... Communication
Ph.D., 1984, University of Tennessee.

Moore, Darrell J. (1989) Associate Professor ........ Biological Sciences
B.A., 1975 and Ph.D., 1983, University of Texas-Austin.

Moore, Teah (2006) Assistant Professor ............ Human Development and Learning
B.A., 1984, Anderson University;
M.A., 2003, Bradley University;
Ph.D., 2006, Idaho State University.

Moore, Thomas (2007) Assistant Professor ........ Management and Marketing
Ph.D., 2007, University of Texas at Arlington.

Moorman, Jonathan P. (2000) Professor ............ Internal Medicine
B.S., 1987, Loyola College;
M.D., 1991, University of Virginia School of Medicine.

Morefield, John D. (1983) Associate Professor ...... English
A.B., 1962, Davidson College;

Morgan, Robert G. (1975) Professor ................. Accountancy
B.A., 1968, Piedmont College;
M.Acc., 1971 and Ph.D., 1974, University of Georgia.

Morrow, Brent (1986) Associate Professor .......... Human Development and Learning
B.A., 1969, University of California;
M.A., 1977, Mennonite Brethren Seminary;
Ph.D., 1986, Texas Tech University.

Mozen, Diana M. (2000) Associate Professor ....... Kinesiology, Leisure and Sport Sciences

Murnane, Owen D., Jr. (1995) Assistant Professor ........ Communicative Disorders
Ph.D., 1993, Syracuse University.

Murray, Catherine (1995) Professor .............. Chair, Art and Design
B.A., 1982, Portland State University;

Musich, Phillip R. (1980) Professor .................. Biochemistry and Molecular Biology
Adjunct Faculty, Biological Science
B.S., 1968, Creighton University;
Ph.D., 1973, University of Chicago.

Mustain, Eric L. (1990) Associate Professor .......... Health Sciences
B.A., 1974, University of Missouri-Columbia;
Ph.D., 1984, University of Colorado Health Sciences Center.

Mwinyelle, Jerome (2004) Assistant Professor ....... Foreign Languages
B.A., 1989, University of Ghana;
M.A., 1995, Temple University;
Ph.D., 2005, University of Texas at Austin.

Nandi, Arpita (2007) Assistant Professor .............. Geosciences
B.Sc., 1995 and M.Sc., 1997, University of Calcutta, India;
M.S., 2001, University of Akron;
Ph.D., 2007, Kent State University.

Nayarambi, Arnold (2009) Assistant Professor ...... Human Development and Learning
B.A., 2000, Africa University;
M.Ed., 2004, Shenandoah University;
Ph.D., 2009, Tennessee Technological University.

Nelson, Ardis L. (1994) Professor ..................... Foreign Languages
B.A., 1965, Oberlin College;
M.A., 1972, Middlebury College-Madrid;
Ph.D., 1980, Indiana University-Bloomington.

Newcomer, Daniel (2000) Assistant Professor .......... History
B.A., 1993 and M.A., 1995, New Mexico State;
Ph.D., 2000, Texas Christian University.

B.A., 1982, East Tennessee State University;
Ph.D., 1994, University of Texas System, Graduate School of Biomedical Sciences, Houston, Texas;

Niederberger, Maria (1999) Associate Professor ....... Music
B.A., 1981, University of California, Davis;
Ph.D., 1991, Brandeis University.

Niqussie, Yared (2008) Assistant Professor .......... Mathematics

Nehring, Wendy (2009) Professor ...................... Dean, Nursing
B.S.N., 1979, Illinois Wesleyan University;
M.S., 1983, University of Wisconsin-Madison;
Ph.D., 1989, University of Illinois at Chicago.

Noc, Colleen M. (2005) Associate Professor .......... Communicative Disorders
B.S., 1989 and M.S., 1991, East Tennessee State University;
Ph.D., 1994, Ohio State University.

Norwood, Frederick H. (1987) Professor ............. Mathematics
B.A., 1966, University of Southerwestern Louisiana;
M.S., 1969, University of California-Riverside;
Ph.D., 1979, University of Southerwestern Louisiana.

O’Donnell, Kevin E. (1993) Professor ................. English
Director, Environmental Studies Minor
B.A., 1984, Kent State University;

Odl, Brian L. (2007) Assistant Professor ............ Pharmacy Practice
B.S., 1990, Middle Tennessee State University;
Pharm.D., 1994, University of Tennessee at Memphis.

Oh, Sunjoo (2005) Assistant Professor ................. Music
B.M., 1992 and M.M., 1994, Sungshin Women’s University, Seoul, Korea;
D.M.A., 2005, University of South Carolina, Columbia.

Oliveira, Carrie M. (2007) Assistant Professor .......... Communication
Ph.D., 2007, Michigan State University.

Olson, Charles S. (1999) Professor ................. Appalachian Studies
B.A., 1982, University of Minnesota;
M.A., 1991, University of Kentucky;
Ph.D., 1997, University of Mississippi.

Onyango, Edward M. (2006) Assistant Professor ...... Health Sciences
B.V.M, 1987 and M.S., 1992, University of Nairobi;
Ph.D., 2004, Purdue University.
Ordway, Gregory A. (2005) Professor .......................... Chair, Pharmacology
B.S., 1980, Ohio State University;
Ph.D., 1985, Ohio State University, College of Pharmacy.

Osborn, Richard E. (1990) .................... Dean, School of Continuing Studies and Academic Outreach
Ph.D., 1990, University of Iowa.

Owens, Beatrice H. (2006) Assistant Professor ........ Physical Therapy
B.S.P.T., 1989, University of Tennessee - Memphis;

Pack, Rob (2008) Associate Professor .................... Community Health
Associate Dean, College of Public Health
B.S., 1981, University of Alabama-Birmingham;

Padmanabhan, Rengasamy (2007) Associate Professor ........ Health Sciences
B.S., 1970 and M.S., 1973, Madras University;
Ph.D., 1980, Banaras Hindu University.

Page, Melvin E. (1987) Professor ............................ History
B.A., 1966, American University;
M.A., 1968, Howard University;
Ph.D., 1977, Michigan State University.

Palmer-Lopez, Sandra (1995) Associate Professor .... Foreign Languages
B.A., 1977, Colegio Universitario de Caeay, Puerto Rico;
M.A., 1981, University of South Florida;
Ph.D., 1994, Florida State University.

Panini, Sankhavaram, R. (1996) Associate Professor ... Biochemistry and Molecular Biology
B.S., 1968, Andhra University, Waltair, India;
M.S., 1970, University of Baroda, India; D.I.I.Sc., 1971;
Ph.D., 1975, Indian Institute of Science, Bangalore, India.

Panus, Peter C. (1995) Associate Professor .......... Pharmaceutical Sciences
B.A., 1979, Huntington College;

Parker, Herbert M. (2005) Assistant Professor ........ Communication
B.F.A., 1977, Stephens College;

Pawlucz, Peter H. (1987) Associate Professor .......... Art and Design
B.A., 1965, Colby College;
M.A., 1970, West Virginia University;
Ph.D., 1987, Northwestern University.

B.S., 1984, East Texas University;
M.S., 2002, Texas A&M University;
Ph.D., 2005, University of Florida.

Pearson, Tamera L. (2004) Assistant Professor ........ Nursing
B.S.N., 1985, Southern College;
M.S.N., 1990, Vanderbilt University;
Ph.D., 1997, University of South Carolina.

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.

Pfeiffer, Phillip E., IV (1996) Professor .............. Computer and Information Sciences
B.S., 1976, Yale University;

Pike, Lee M. (1976) Professor ............................. Biological Sciences
Faculty Emeritus
B.A., 1967, Albion College;
M.S., 1971 and Ph.D., 1974, Michigan State University.

Pittarese, Anthony (2007) Assistant Professor .......... Computer and Information Sciences
B.S., 1991, Pensacola Christian College;
M.B.A., 1992 and M.S., 1997, University of West Florida;
Ph.D., 2003, Auburn University.

Pointer, Martha M. (1991) Associate Professor ........ Accountancy
Associate Dean and Director, Graduate Studies,
College of Business and Technology
B.S., 1972, Tennessee Technological University;
Ph.D., 1992, University of South Carolina.
CPA, Tennessee.

Pomerantz, Edward (2005) Adjunct Faculty ................. Social Work
B.A., 1971, Florida Atlantic University;
M.S.W., 1976, Barry University.

Pond, Brooks B. (2007) Assistant Professor .... Pharmaceutical Sciences
B.S., 2000, Centre College;
Ph.D., 2004, Duke University Medical Center.

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.

Powers, C. Lorraine (1995) Associate Professor .......... Health Sciences
B.S., 1983, Memphis State University;
M.S., 1987, University of Tennessee, Knoxville;
Ph.D., 1994, University of Tennessee, Memphis.

Price, Kellie (1999) Assistant Professor .................. Computer and Information Sciences

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.

Price, Tabitha N. (2006) Assistant Professor .......... Dental Hygiene

Proctor-Williams, Kerry (2002) Assistant Professor ....... Communicative Disorders
B.S., 1980 and M.C.I.Sc., 1984, University of Western Ontario;
Ph.D., 2005, University of Kansas.

Pyles, Rebecca A. (1991) Associate Professor .......... Biological Sciences
Dean, Honors College
B.S., 1975, University of Missouri-Kansas City;

Quigley, John V. (1984) Associate Professor ........... Management and Marketing

Ralston, Elizabeth (1993) Professor ................. Curriculum and Instruction
Senior Associate Dean, Clemmer College of Education
Director, Field Services
B.A., 1970, Texas A&M University;

Ramsauer, Victoria Palau (2007) Assistant Professor .......... Pharmaceutical Sciences
B.A., 1979, Pontificia Universidad Javeriana;
Ph.D., 1999, Florida International University.

Ramsey, Michael (2005) Associate Professor .......... Kinesiology, Leisure and Sport Sciences
B.S., 1993 and M.A., 1995, Sam Houston State University;
Ph.D., 2005, Texas A&M University.

Ramsey, Priscilla W. (1990) Professor .............. Nursing Faculty Emerita
B.S., 1976 and M.S., 1979, Cleveland University;
Ph.D., 1990, University of Virginia;
ETSU Distinguished Faculty Award. 2003.

Rasch, Ellen M. (1978) Professor Emerita .... Anatomy and Cell Biology
Adjunct Faculty, Biochemistry

Rasmussen, Susan L. (2009) Assistant Professor ........ Nursing
B.S.N, 1970 and M.S.N., 1974, University of Illinois at the Medical Center, Chicago;
Ph.D., 2009, University of North Carolina, Chapel Hill.

Rayman, Kathleen M. (1999) Associate Professor ........ Nursing
B.S.N., 1978, University of Pittsburgh;
M.S.N., 1987 and Ph.D., 1994, University of Virginia.
Adjunct Faculty, Anatomy and Cell Biology/Physiology/Biochemistry
B.S., 1966, State University of New York, Stony Brook;
M.S., 1968, Marshall University;
Ph.D., 1972, State University of New York, Stony Brook.

Stoos, James M. (1998) Assistant Professor .................. Community Health
B.S., 1987 and M.P.H., 1990, East Tennessee State University;
Ed.D., 2001, University of Tennessee.

Sun, Peng (2008) Assistant Professor ......................... Chemistry
B.S., 1996, Guilin Institute of Technology, Guilin, China;

Swinehart, Kerry D. (1990) Associate Professor ............... Management and Marketing
B.A., 1983, University of South Florida;

Tarnoff, Karen A. (1994) Associate Professor ............... Management and Marketing

Tedesco, Marie (1985) Professor ...................... Cross-Disciplinary Studies
B.A., 1970, Marietta College;

Theuwke, Douglas P. (1996) Associate Professor ........... Biochemistry and Molecular Biology
M.Sc., 1990, Central University of Pondicherry;

Thompson, Phyllis A. (2005) Assistant Professor ............. English
B.S., 1983, University of North Carolina at Greensboro;
M.A., 1992, Appalachian State University;
Ph.D., 2003, Louisiana State University.

Tillman, Primus J. (1999) Assistant Professor Technology and Geomatics
B.A., 1984, University of Memphis;
M.A., 1990, Memphis College of Arts.

Tollefson, Terry (1993) Professor ................... Educational Leadership and Policy Analysis
Faculty Emeritus
A.B., 1961, University of Michigan;
M.B.A., 1963, Michigan State University;
Ph.D., 1975, University of Michigan.

B.S., 1987 and M.A., 1988, University of South Florida;
Ph.D., 2004, Virginia Polytechnic Institute and State University.

Trojen, Paul C. (1995) Associate Professor ................ Political Science
B.A., 1976, University of St. Thomas;
M.A., 1991, Mankato State University;
Ph.D., 1995, Florida State University.

Tumbley, Sharon G. (1993) Assistant Professor .............. Nursing
B.S.N., 1971, Columbia University;
M.S.N., 1977, Boston College.

Tudiver, Fraser G. (2001) Professor ....................... Family Medicine
B.S., 1968, McGill University;

Turner, Barbara B. (1982) Professor ...................... Physiology
Adjunct Faculty, Psychiatry
Ph.D., 1974, University of California, Los Angeles.

Turner, Craig (2002) Associate Professor ............... Management and Marketing
B.S., 1981 and M.B.A., 1990, University of Central Florida;
Ph.D., 1969, Oklahoma State University.

Ume-Nwagbo, Pearl N. (1997) Assistant Professor ........... Nursing
B.S.N., 1981, A&T State University;

Vanhook, Patricia M. (2007) Assistant Professor ........... Nursing
Associate Dean, Practice and Community Partnerships

Vasiliev, Aleksey (2008) Assistant Professor ................ Chemistry
B.S., 1982 and M.S., 1989, Kiev State University, Kiev, Ukraine;

Verhovsek, Estor (2006) Associate Professor ............... Radiography
B.A., 1985, LaRoche College;
M.Ed., 1990, Frostburg State University;
Ed.D., 2003, West Virginia University.

Waage, Frederick O. (1978) Professor ....................... English

Wachs, Joy E. (1993) Professor ......................... Nursing
B.S.N., 1976 and M.S., 1980, University of Wisconsin;
Ph.D., 1986, University of Illinois-Chicago.
ETSU Distinguished Faculty Award, 2000.

Wallberg, Patty (1999) Professor ......................... Social Work
B.S.W. Program Director
Ed.D., 1992, West Virginia University.

Wallace, Steven C. (2001) Associate Professor ............... Geosciences
B.S., 1995, Bowling Green State University;
M.S., 1997, Fort Hays State University;
Ph.D., 2001, University of Iowa.

Walls, Jennie L. (1993) Associate Professor ............... Nursing
B.S.N., 1972, East Tennessee State University;
M.S.N., 1976, University of Tennessee, Memphis.

Wardeska, Jeffrey G. (1967) Professor ..................... Chair, Chemistry
B.S., 1963, Mount Union College;
Ph.D., 1967, Ohio University.

Warner, Carla Rahn (1985) Assistant Professor ........ Cross-Disciplinary Studies
Director, Adult and Community Services
B.A., 1976, Western Illinois University;
M.A., 1980, University of Nebraska, Lincoln;

Watson, Alma L. (2008) Assistant Professor ........ Human Development and Learning
B.A., 1996, Lenoir Rhyne College;
Ph.D., 1999, Virginia Polytechnic Institute and State University.

Watson, Elwood D. (1997) Professor ...................... History
B.A., 1990 and M.A., 1992, University of Delaware;
Ph.D., 1999, University of Maine.
College of Arts and Sciences Distinguished Faculty Research Award 2009
College of Arts and Sciences Distinguished Faculty Teaching Award 2010

Webb, Jon R. (2005) Assistant Professor .................... Psychology
B.S., 1991, Brigham Young University;
M.A., 1993, Pepperdine University;
Ph.D., 1998, California School of Professional Psychology, Los Angeles.

Weir, Ronald L. (1971) Professor ..................... Management and Marketing
D.B.A., 1977, Mississippi State University.
ETSU Distinguished Faculty Member, 1976.

Weiss, Katherine (2006) Assistant Professor ................. English
B.A., 1996, San Francisco State University;
M.Phil., 1997, Trinity College, Dublin;
M.A., 1999, California State University, Los Angeles;
Ph.D., 2002, University of Reading.

B.A., 1969, Mississippi State University;
M.B.A., 1975 and Ph.D., 1985, University of Georgia.

B.A., 1969, St. John Vianney Seminary;
M.A., 1973, University of Notre Dame;
ETSU Distinguished Faculty Award, 2006.
Whitlaw, Michael (2003) Associate Professor ..................... Geosciences  
B.S., 1982 and B.S. Hons., 1983, Monash University, Australia;  
Ph.D., 1990, University of Florida.

Whitson, Marian H. (1993) Assistant Professor ............... Criminal Justice  
and Criminology
B.A., 1966, Dillard University;  
M.S., 1968, Tennessee State University;  
J.D., 1984, Miles Law School;  
Ph.D., 1994, Indiana University of Pennsylvania.

Williams, A. Lynn (1995) Professor ................... Communication Disorders  
B.S., 1978 and M.S., 1980, West Virginia University;  
Ph.D., 1988, Indiana University.

Williams, Carole A. (1980) Professor .......................... Psychology  
A.B., 1969, Alberrus Magnus College;  
Ph.D., 1977, St. Louis University.

Williams, David L. (1991) Professor .............................. Surgery  
B.S., 1974, Kentucky Wesleyan College;  
Ph.D., 1985, Tulane University.  
ETSU Distinguished Faculty Award, 1997.

Williams-Gebhardt, Stacey Lynne (2006) Assistant Professor . Psychology  
B.S., Youngstown State University;  
M.S., and Ph.D., Kent State University.

Wilson, Richard H. (2006) Professor ............................. Communicative Disorders  
B.S., East Tennessee State University;  
M.S., Vanderbilt University;  
Ph.D., Northwestern University.

Wondergem, Robert (1978) Professor ........................... Physiology  
B.S., 1972, Calvin College;  
Ph.D., 1977, The Medical College of Wisconsin.

Wright, Gary (2009) Associate Professor ......................... Pharmacology  
B.S.C., 1992, University of Kentucky;  

B.A., 1990, State University of New York, Buffalo;  

Wu, Tiejian (2002) Associate Professor .......... Biostatistics/Epidemiology  
M.D., 1983 and M.S., 1986, Shandong University;  
Ph.D., 1999, State University of New York-Buffalo.

Wykoff, Randy (2006) Professor ...................... Health Services Administration  
Dean, Public Health  

Wrylic, Priscilla B. (2000) Professor ......................... Chair, Microbiology  

Yampolsky, Lev (2001) Associate Professor .................. Biological Sciences  
M.S., 1986, Moscow State University;  

Yao, Zhi Q. (2006) Clinical Associate Professor .......... Internal Medicine  
M.D., 1983 and Ph.D., 1991, Fourth Military Medical University, China.

ETSU Foundation Research Award, 1996.

Yayas, Ugur (1987) Professor ................................. Management and Marketing  
B.A., 1970, Robert College;  
M.B.A., 1972, Florida State University;  
M.B.A., 1974 and Ph.D., 1976, Georgia State University.  
ETSU Foundation Research Award, 1993.

Yin, Deling (2003) Associate Professor ....................... Internal Medicine  
M.D., 1987, Taishan Medical University, China;  
Ph.D., 1995, Shanghai Medical University, China.

Youngberg, George A. (1980) Professor ....................... Pathology  
Adjunct Faculty, Internal Medicine  
B.A., 1973, Lake Forest College;  
M.D., 1977, Northwestern University Medical School.

Zavada, Michael S. (2006) Professor .................. Chair, Biological Sciences  
B.S., 1974 and M.S., 1976, Arizona State University;  
Ph.D., 1982, University of Connecticut.

Zembower, Christian (2007) Assistant Professor .......... Music  
B.S., 1990, Frostburg State University;  
M.A., 1992, Indiana University of Pennsylvania;  
D.M.E., 2006, University of Southern Mississippi.

Zhang, Chunhua (2007) Assistant Professor .................. Geosciences  
B.S., 1993, Hunan Normal University;  
M.S., 1996, Southwest China Normal University;  
Ph.D., 2007, University of Saskatchewan.

Zhao, Ningfeng (2008) Assistant Professor ................ Chemistry  
B.S., 2000, University of Science and Technology of China, Heifei, China;  
M.S., 2003 and Ph.D., 2005, Wichita State University.

Zhu, Meng-Yan (2007) Associate Professor ................ Pharmacology  
M.D., 1977 and Ph.D., 1991, Fourth Military Medical University, China.  

Zinser, Otto (1970) Professor ............................. Psychology  
B.S., 1964, Trinity College;  

Zou, Yue (2001) Professor ...................... Biochemistry and Molecular Biology  
B.S., 1982, Chengdu University of Science and Technology, China;  
M.S., 1985, Dalian Institute of Chemical Physics, Chinese Academy of Sciences;  

Zucker, Ronald (2007) Assistant Professor .............. Computer and Information Sciences  
B.S., 1973, University of Bridgeport;  
M.S.C.I.S., 1984, Troy State University, Montgomery;  
Ph.D., 2007, University of South Florida.
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