MERCER UNIVERSITY
BULLETIN 2004-2005

College of Liberal Arts

Eugene W. Stetson School of Business and Economics

School of Engineering

Tift College of Education

School of Medicine

Macon, Georgia 31207
Correspondence Directory

For Information On:

Academic Programs
   College of Liberal Arts ......................... Dean Richard C. Fallis
   School of Business and Economics ................ Dean’s Office
   School of Engineering ......................... Dean M. Dayne Aldridge
   Tift College of Education ..................... Dean Carl R. Martray
   School of Medicine ......................... Dean Ann Connor Jobe

Academic Records and Transcripts ................ Mr. Paul G. Schnepf
   University Registrar

Admissions and Transfers ......................... Office of Admissions

Athletics ........................................ Mr. Bobby A. Pope, Director of Athletics

Alumni .............................................. Mr. T. Raleigh Mann
   Senior Associate Vice President, Alumni Services

Denominational Relations ....................... Dr. James C. Bruner
   Vice President and Senior Assistant to the President

Fees and Business Matters ...................... Mr. G. Lynwood Donald
   Senior Vice President for Finance

Gifts and Bequests ................................ Office of University Advancement

Housing/Residence Life ......................... Mr. Jeff Takac
   Director of Housing and Residence Life

Graduate Studies ................................. Provost’s Office

Undergraduate Studies .......................... Dr. Marilyn P. Mindingall
   Associate Provost for Undergraduate Studies

Library ............................................. Ms. Elizabeth D. Hammond
   Dean of University Libraries

Social Organizations ............................. Ms. Lora Tuley
   Assistant Director of Campus Life for Greek Life

Student Financial Planning ...................... Ms. Carol K. Williams
   Associate Vice President for Student Financial Planning

Student Life ...................................... Dr. Douglas R. Pearson
   Vice President and Dean of Students
Calendar 2004–2005

Fall 2004
Residence Halls Open (New Students) Aug 14
Residence Halls Open (Returning Students) Aug 15
Open Registration Ends Aug 17
Opening Convocation Aug 17
First Day of Class Aug 18
Late Registration and Drop/Add Period Aug 18-20, 23-24
Labor Day Holiday Sep 6
Mid Term Oct 8
Fall Break Oct 11-12
Last Day for Course Withdrawal Oct 26
Application for Spring Graduation Due Nov 1
Thesis Due to Director of Graduate Program Nov 1
Thanksgiving Holidays Nov 24-26
Last Day of Class Dec 7
Reading Day Dec 8
Final Examinations Dec 9-11, 13-14

Spring 2005
Residence Halls Open (All Students) Jan 11
Open Registration Ends Jan 11
New Student Orientation Jan 11
First Day of Class Jan 12
Late Registration and Drop/Add Period Jan 12-14, 18-19
MLK Jr. Holiday Jan 17
Founders Day Convocation Jan 26
Application for Summer 2005 Graduation Due Feb 25
Mid Term Mar 4
Spring Break Mar 7-11
Last Day for Course Withdrawal Mar 28
Good Friday Mar 25
Thesis due to Director of Graduate Program Apr 1
Application for Fall 2005 Graduation Due Apr 1
Honors Convocation Apr 1
Last Class Day May 3
Reading Day May 4
Final Examinations May 5-7, 9-10
Commencement May 15

Note: School of Medicine Calendar differs and can be found in the Graduate School section of the Bulletin.
Summer 2005

Session 1 (5 weeks)
Classes Begin: May 23
Holiday: May 30
Classes End: June 22
Reading Day: June 23
Exams: June 24

Session 2 (5 weeks)
Classes Begin: June 27
Holiday: July 4
Classes End: July 27
Reading Day: July 28
Exams: July 29-30

Session 3 (10 weeks)
Classes Begin: May 23
Holiday: May 30
Holiday: July 4
Classes End: July 27
Reading Day: July 28
Exams: July 29-30
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The University

Founded in 1833 in Penfield, Georgia, Mercer University has grown into one of the South’s premier universities. With more than 7,300 students and 1,250 faculty members on campuses in Macon and Atlanta, Mercer is one of the largest Baptist-affiliated institutions in the world. It is the only independent university of its size in the nation to offer programs in liberal arts, business, engineering, education, medicine, pharmacy, law, theology, nursing and professional and continuing studies. Led by President R. Kirby Godsey, Mercer has been ranked among the leading regional colleges and universities in the South by U.S. News & World Report for fourteen consecutive years.

In an educational environment where practical wisdom and compassion prevail, Mercer is motivated by the best in the Baptist tradition – exploring the relationship of faith and learning and embracing the principles of intellectual and religious freedom. For more than 170 years, young men and women have left Mercer to become leaders of great deeds and influence. Their heritage and legacy promote true promise for the future.

Students benefit from Mercer’s welcoming atmosphere and small-class learning environment. They learn from a prestigious, yet caring, faculty – not teaching assistants as found at many universities. Faculty members, whose credentials represent some of the world’s finest academic institutions, are distinguished for both teaching and research. More than ninety percent of the faculty hold doctorates or the highest attainable degree in their respective fields.

Mercer’s reputation is built on its rigorous academic programs, outstanding faculty, and state-of-the-art facilities. Yet tradition plays a key role in the University’s unique identity as an institution committed to Judeo-Christian principles.

University Mission Statement

Mercer University is a church-related institution of higher learning that seeks to achieve excellence and scholarly discipline in the fields of liberal learning and professional knowledge. The University is guided by the historic principles of religious and intellectual freedom, while affirming religious and moral values that arise from the Judeo-Christian understanding of the world.

University Goals

• To offer undergraduate, graduate, and professional programs based upon a strong liberal arts foundation.
• To support a highly qualified faculty that is student and teaching oriented and is engaged in scholarly, research, and professional activities.
• To foster independent and critical thinking and a continuing interest in learning.
• To foster intellectual and spiritual freedom in an environment that encourages tolerance, compassion, understanding, and responsibility.
• To offer a variety of intellectual, cultural, recreational, and spiritual activities designed to enlarge capacity for improved judgment and moral, ethical, and spiritual growth.
• To encourage the enrollment of qualified persons from diverse backgrounds and situations.
• To contribute campus resources in partnership with other institutions and agencies to improve the educational, social, and economic development of the community.
• To administer services efficiently and effectively to support the University’s instructional, research, and public service programs.

University-Wide Assessment

Mercer University conducts a university-wide assessment program to measure student progress toward educational goals, to evaluate academic programs, to improve learning and teaching, and to evaluate institutional effectiveness. Students are active participants in a variety of campus-based assessment activities that focus on attitudes, satisfaction and academic achievement. It is through student participation in the assessment process that the University can better understand itself and better serve its constituents.

University History

Mercer University first opened its doors as Mercer Institute on January 14, 1833, at Penfield, Greene County, Georgia. It is named for Jesse Mercer (1769-1841), an eminent Georgian, distinguished Baptist clergyman and principal organizer of the Georgia Baptist Convention. Establishment of Mercer Institute was due largely to his leadership and to the exemplary pioneering of Adiel Sherwood, a noted Baptist minister and, later a faculty member. In 1871, the University was moved from Penfield to Macon, and two years later, the Law School was established.

Early in the administration of Spright Dowell, which began in 1928, a new charter was approved and corresponding reorganization was perfected. Significant growth of the University ensued. Before President Dowell retired in 1953 to the position of president emeritus, the plant and property and endowment of the University had been increased more than in all of its previous years.

A more complete account of Mercer history may be found in the late President Spright Dowell’s A History of Mercer University, 1833-1953, published by Mercer University, 1958.

Chosen as Dr. Dowell’s successor was George B. Connell, a 1924 graduate who had served six years as vice president. During Dr. Connell’s term of office from 1953 until his death on April 21, 1959, substantial strides were made throughout the University, including important new construction and the addition of approximately $1.5 million to the endowment fund.

Emeritus President Dowell, who had remained active in the service of the University during his retirement by writing a history of Mercer, was appointed by the Board of Trustees as interim president following Dr. Connell’s death. Dr. Dowell served until the succeeding president could assume office in April 1960. During his interim, the formerly independent Southern College of Pharmacy in Atlanta, founded in 1903, merged with the University. Dr. Dowell died on February 24, 1963.

On November 6, 1959, the Board of Trustees elected Dr. Rufus Carrollton Harris, president of Tulane University, to the Mercer presidency. Dr. Harris, a 1917 graduate of Mercer who had served his alma mater from 1923-1927 as profes-
sor of law and as dean of the Law School, returned to Mercer with a record of outstanding achievements as head of one of the South's most highly regarded universities.

On July 1, 1979, Dr. R. Kirby Godsey, former dean of the College of Liberal Arts and executive vice president of the University, succeeded Dr. Harris as president. Dr. Harris assumed the position of chancellor of the University. The University has made significant strides during Dr. Godsey's tenure.

In 1979, the University established the Executive Forum business enrichment program and Mercer University Press. In 1982, it opened the School of Medicine with the mission of improving the supply and distribution of primary care and other needed specialty physicians in rural and underserved areas of Georgia. In 1984, the business and economic programs were separated from the College of Liberal Arts and the Eugene W. Stetson School of Business and Economics was created.

A year later, Mercer established the School of Engineering, the second engineering school in the state. Building on the expertise within the new engineering school, the University established the Mercer Engineering Research Center in Warner Robins in 1987 to serve the engineering needs of Robins Air Force Base and other government and commercial clients. In 1995, all teacher education and some social science programs were joined to create a new school which, by Board of Trustees vote in 2001, was named the Tift College of Education. The action reflected the University's continuing commitment to carrying on the educational legacy of Tift College, an all women's Baptist college that merged with Mercer in 1986.

In 1996, Jesse Mercer's founding vision of providing students with a classical and theological education came full circle with the founding of the James and Carolyn McAfee School of Theology.

Georgia Baptist College of Nursing merged with Mercer on January 1, 2001. Founded in 1902, the College of Nursing became part of the University through an agreement with the Georgia Baptist Convention.

The College of Continuing and Professional Studies, established in 2003, offers undergraduate degrees in major career fields at Mercer's regional academic centers and a master's degree in community counseling in Atlanta and at the centers. The College also provides non-credit programs in professional development and community enrichment.

Under Dr. Godsey's leadership, Mercer has grown from 3,800 students to more than 7,300, making it one of the largest Baptist-affiliated universities in the world. Recognized by Georgia Trend magazine as one of Georgia's most influential leaders, Dr. Godsey has also led the University to increase its endowment from $16.5 million in 1979 to $225 million in 2001, placing Mercer in the top 5 percent of the nation's 3,400 colleges and universities in endowment.

In the course of its history Mercer University has had twenty-two persons serving in the President's Office. Their names and the dates of their administrations are as follows:

Billington McCarty Sanders ..................1833-1840
Otis Smith ..................................................1840-1844
John Leadly Dagg ..........................1844-1854
Nathaniel Macon Crawford ..................1854-1856
Shelton Palmer Sanford, Acting President ...........................1856-1858
Nathaniel Macon Crawford ..................1858-1866
Henry Holcomb Tucker ..................................1866-1871
The Foundation of the Mercer Education: Mercer’s Mission, Common Outcomes, and Defining Values

Consistent with its mission, Mercer University is a community of learning that shapes the minds and spirits of tomorrow’s leaders. As a community of learning, Mercer is a student-centered university, committed to the Baptist heritage in higher education. Together, the schools and colleges at Mercer pursue three outcomes they hold in common: fostering learning, developing character, and preparing leaders.

This commonly held ideal is rooted in the history of higher education and can be traced to the formative influence of “paideia,” the philosophy of education birthed in ancient Greece. Paideia connotes the sort of education that uniquely prepares individuals to lead virtuous and responsible lives within a democratic society. It addresses the character as well as the mind of the learner and celebrates the ideal of educating the whole person. At Mercer, teachers committed to their students, their disciplines, and the vocation of teaching inspire students to share in a passionate quest for knowledge and the wisdom that transforms knowledge into power.

Mercer promotes the principles of free and critical inquiry, excellence in teaching and learning, responsibility for civic engagement, and the importance of diversity and inclusiveness. Consequently, a Mercer education prepares students to expand their horizons, enjoy a “well-stocked mind,” find their vocation, establish a high standard of ethics, appreciate the fine arts, and find fulfillment in enriching and improving the lives of others.

Colleges and Schools of Mercer University

Mercer’s Macon location is a beautiful, 130-acre campus to the west of downtown. It is home to the College of Liberal Arts, the School of Medicine, the Stetson School of Business and Economics, the School of Engineering, and the Tift College of Education. The Walter F. George School of Law is located a mile from the main campus in a four-story reproduction of Independence Hall that sits atop Coleman Hill, overlooking downtown Macon.
Mercer's Cecil B. Day Graduate and Professional Campus is located on more than 300 acres, just off exit 94 on I-85 in northeast Atlanta. It is home to the Southern School of Pharmacy, James and Carolyn McAfee School of Theology, Georgia Baptist College of Nursing and selected programs in the School of Engineering, Stetson School of Business and Economics, and Tift College of Education.

Regional Academic Centers programs are offered at four community-based educational centers: one on the main campus in Macon, and three off-campus locations in Douglas County, Henry County, and Eastman. The program is an important part of Mercer's educational outreach to older or non-traditional students. The academic programs include undergraduate degrees in major career fields.

**College of Liberal Arts (Macon)**

The purpose of the College of Liberal Arts is to provide a liberal arts education within the broad outlook of the Judeo-Christian intellectual tradition. It is committed to the goals of learning and faith and strives to uphold the values of personal freedom, individual responsibility, and community service.

The oldest of the University's academic units, the College of Liberal Arts currently serves about 1,400 students and offers a full array of baccalaureate programs in the humanities, fine arts, social sciences, and sciences. Degrees awarded are Bachelor of Arts, Bachelor of Science, Bachelor of Science in Medicine, Bachelor of Science in Dentistry and Bachelor of Science in Medical Technology, Bachelor of Music Education, and Bachelor of Music.

The College remains the University's academic cornerstone and has 120 full-time and twenty-five part-time faculty members. The College is led by Dr. Richard C. Fallis, dean.

**The School of Medicine (Macon)**

The purpose of the School of Medicine of Mercer University is to provide an education for future physicians who will meet the health care needs of Georgia. The School currently has an enrollment of 314 with 278 faculty members, led by Dr. Ann C. Jobe, dean. The School offers the following degrees: Doctor of Medicine, Master of Family Services, Master of Family Therapy, and Master of Public Health. For the Doctor of Medicine degree, the curriculum in the first two years is problem-based and clinically oriented. Students study the basic sciences in an interdisciplinary fashion in small groups. Also during the first two years, students begin learning clinical skills while working with simulated and real patients. The final two years of the curriculum are largely spent in clinical clerkships in affiliated hospitals. These clerkships include internal medicine, surgery, pediatrics, family medicine, obstetrics/gynecology, and psychiatry. During all four years, students participate in primary care preceptorships in communities throughout Georgia.

**Eugene W. Stetson School of Business and Economics**

The Eugene W. Stetson School of Business and Economics is committed to providing high-quality educational programs and services that effectively integrate an academic perspective with actual business practices.

The School serves over 1,600 students with thirty-nine full-time and twenty part-time faculty. The following degrees are offered: Bachelor of Business
Administration, Master of Business Administration and Executive Master of Business Administration. The School offers a BBA program on the Macon campus and in the Douglas County Center and a BBA completion program on the Atlanta campus. The MBA is offered in Macon and Atlanta, and the EMBA is offered only on the Atlanta campus.

The School promotes close ties with business practitioners by providing internships, offering the Executive Forum speakers series and bringing business professionals to campus to lecture as a part of Business Week. Students and faculty have regular opportunities to learn from executives who are applying the tools of management in the marketplace.

School of Engineering
The School of Engineering educates future professionals for engineering and related professions. Students acquire knowledge and skills that are critical to success in a highly technological world. Emphasis is placed on the development of communication and teaming skills and sensitivity to moral and ethical issues that are fundamental to achieving one's full potential.

The School currently serves 600 students with thirty-two faculty members, led by Dr. M. Dayne Aldridge, dean. The School offers the following degrees: Bachelor of Science in Engineering, Bachelor of Science with majors in Industrial Management and Technical Communication, Master of Science in Engineering, and Master of Science with majors in Software Systems, Technical Communication Management, and Technical Management. All programs are offered on the Macon campus with a few graduate courses available on the Atlanta campus and Warner Robins Air Force Base.

Tift College of Education
Dedicated to preparing outstanding educators for the 21st Century, the College of Education offers strong programs in a variety of fields to meet the needs of diverse students in the teacher education community.

The College currently serves 1,000 students with twenty-nine faculty members, led by Dr. Carl Martray, dean. Degrees offered include Bachelor of Science in Education, Master of Education and Specialist in Education. The College also offers initial teacher certification at the undergraduate and graduate level.

Majors include Teacher Education in The Holistic Child: Early Childhood and Interrelated (with ESOL option) and Middle Grades Education. In addition to these majors, the College of Education, in conjunction with the College of Liberal Arts, offers certification programs in secondary education (7-12) and special subjects (P-12) for students enrolled in the College of Liberal Arts.

The College's undergraduate programs are offered on the Macon campus, as well as the off-campus centers in Douglas County, Eastman, and Henry County. Graduate programs are offered on the Macon and Atlanta campuses.

Walter F. George School of Law (Macon)
The Walter F. George School of Law seeks to teach its students to analyze legal problems through a logical and orderly thought process. The appropriate lawyering techniques are then applied to those problems. The Law School is committed to producing graduates who are good thinkers, precise legal craftsmen and responsible members of society.
Currently serving 430 students with twenty-seven full-time and twenty-one adjunct faculty members, the Law School is led by Dean Daisy Hurst Floyd. The School offers the juris doctor degree.

The Woodruff Curriculum, Mercer’s model curriculum, focuses on ethics and practical skills. It was honored with the Gambrelli Professionalism Award from the American Bar Associate for its “depth and excellence” and “obvious commitment to professionalism.”

The United States District Court, the Superior Court, the City Court and several minor courts are in constant session during the school year, affording opportunity for students to observe skillful, practical application of legal principles.

**Southern School of Pharmacy (Atlanta)**

The mission of the Southern School of Pharmacy is to prepare its graduates to provide pharmaceutical care and thereby assure the safe and effective use of medications for the benefit of the patient and society. The School provides an environment in which students can actively participate to gain knowledge of pharmaceuticals and their actions, to understand contemporary pharmacy practice, and to develop problem solving skills.

Drawing students from throughout the nation and world, the School currently has an enrollment of 575 with thirty-nine faculty members, led by Dr. H.W. “Ted” Matthews, dean. In September 1981, the School became the first pharmacy school in the Southeast and fifth in the nation to offer the Doctor of Pharmacy (Pharm.D.) as its sole professional degree. The School today awards the following degrees: Doctor of Pharmacy, Doctor of Pharmacy/Master of Business Administration, Doctor of Philosophy in Pharmaceutical Sciences and Doctor of Pharmacy/Doctor of Philosophy.

The School is also committed to providing postgraduate education, including graduate programs, residencies, fellowships, certificate programs, and other postgraduate educational opportunities.

**James and Carolyn McAfee School of Theology (Atlanta)**

The mission of Mercer’s McAfee School of Theology is to be an inclusive community of learning focused on Jesus Christ, guided by sacred Scripture, extending the mission of the Church and founded on the heritage of Baptists. The School seeks to equip men and women called of God for authentic ministry, the pursuit of spiritual maturity, and the lifelong process of theological inquiry.

The School currently serves over 150 students with ten full-time and two adjunct faculty members, led by Dr. R. Alan Culpepper, dean. The School offers the Master of Divinity and Doctor of Ministry degrees and concentrations in academic research, business administration, Christian education, and community counseling. McAfee partners with the Georgia Baptist Convention and the Cooperative Baptist Fellowship, attracting students who have looked critically at the options for theological education and seek preparation for ministry in the 21st Century.

**Georgia Baptist College of Nursing (Atlanta)**

Georgia Baptist College of Nursing is the oldest nursing program in the metropolitan Atlanta area. Its students receive three years of clinical experience in contrast to only two years at other schools of nursing. The College holds contracts with more than forty affiliating clinical agencies, which gives students opportuni-
ties to experience nursing in a variety of setting from hospitals to schools districts to health departments. Georgia Baptist College of Nursing currently serves 302 students with twenty-nine full-time and five part-time faculty members, led by Dr. Susan S. Gunby, dean. The College offers the Bachelor of Science in Nursing degree and the Master of Science in Nursing degree.

The undergraduate degree program offers two tracks: generic and advanced. The generic track is suited for prelicensure students who are not yet registered nurses and are pursuing initial professional nursing education. The RN-BSN advanced track is for registered nurses who have graduated from an accredited associate degree or diploma nursing program and have successfully completed the National Council Licensure Exam for RNs. The graduate degree program also has two tracks: nursing educator and acute/critical care nursing of the adult.

The College of Continuing and Professional Studies

Established January 2003, the College of Continuing and Professional Studies is committed to serving adult learners with distinctive interdisciplinary undergraduate and graduate degree programs that integrate theory and practice in unique ways. As the newest academic unit at Mercer University, the College's faculty and professional support staff are committed to offering quality learning experiences and the personal attention and support that will enable nontraditional learners to achieve their educational and career goals.

The College currently serves 800 students with thirty faculty members, led by Dr. Thomas E. Kail, dean. The College offers undergraduate degrees in criminal justice, human services, technology and communication, organization leadership, as well as general education offerings, in Atlanta, Macon, and the Regional Academic Centers in Douglas County, Eastman, and Henry County. On the graduate level, the College of Continuing and Professional Studies offers a master's degree program in community counseling. More than 1,500 students enroll in noncredit programs that include the Public Safety Leadership Institute, information technology certifications, and College for Kids programs.

Accreditation

Mercer University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award bachelor's, master's and doctor's degrees. Inquiries may be referred to Southern Association of Colleges and Schools, Commission on Colleges, 1866 Southern Lane, Decatur, Ga. 30033-4097; telephone, (404) 679-4500; Fax, (404) 679-4558; E-mail, www.sacscoc.org.

The Stetson School of Business and Economics is accredited by AACSB International–The Association to Advance Collegiate Schools of Business, 600 Emerson Road, Suite 300, St. Louis, MO, 63141-6762; www.aacsb.edu.

The Engineering Accreditation Commission of ABET, Inc. has accredited the Bachelor of Science in Engineering degree of the School of Engineering.

The Walter F. George School of Law has been a member of the Association of American Law Schools since 1923 and has been approved by the American Bar Association since 1925. The School of Law is approved by the Committee on Legal Education and Admission to the Bar of the Georgia Bar Association and is registered by the New York State Education Department.

The School of Medicine is a member of the Association of American Medical Colleges and is accredited by the Liaison Committee on Medical Education, representing the American Medical Association and the Association of American Medical Colleges.
The Southern School of Pharmacy's Doctor of Pharmacy degree program is accredited by the American Council on Pharmaceutical Education, 311 West Superior Street, Suite 215, Chicago, Ill. 60610, (312) 664-3575; (800) 533-3606; FAX, (312) 664-4652. The School is a member of the American Association of Colleges of Pharmacy.

The Georgia Baptist College of Nursing is accredited by the National League for Nursing Accrediting Commission, 61 Broadway, New York, NY, 212-363-5555 and the Commission on Collegiate Nursing Education, One Dupont Circle NW, Suite 530, Washington, D.C., 202-887-6791.

The James J. and Carolyn McAfee School of Theology was accredited by the Association of Theological Schools in 2002 at the earliest time of its eligibility.

Office of Sponsored Programs

The Office of Sponsored Programs (OSP) is the central focus of research activity at Mercer University. It provides support for the preparation and submission of research proposals.

OSP seeks ways to engage both undergraduate and graduate students and faculty in leading-edge research and exploration of the unknown. Students and professors alike benefit from the interchange and cross-fertilization of ideas between teaching and research. Every effort is made to immediately incorporate research findings into the classroom.

OSP provides enhanced databases to house contract and grant information and assists in developing an extramural support team dedicated to providing an economic base for researchers.

International Programs at Mercer University

The Office of International Programs (OIP) is the central administrative unit of international education. The OIP is responsible for the study abroad program, student and faculty exchange programs, international student and scholar services, and the English Language Institute (ELI). The OIP is also responsible for managing the University’s undergraduate relationships with foreign universities and academic programs. Its mission is to support students and faculty in each of these areas of international education.

Detailed information on international programs and services offered by Mercer University is found in the Academic Information portion of this Bulletin.

Campus Facilities Improvement Program

Over the past decade, the University has enhanced its facilities on both the Macon and Atlanta campuses through one of the largest capital improvement efforts in Mercer’s history. Below are some of the construction and/or renovation projects located on the Macon campus:

Administration Building – The building was constructed in 1871-1874 and is the University’s oldest structure. It is on the National Register of Historic Places and is considered one of the architectural monuments of the city. The building, completely restored in 1977-1979, houses administrative offices. Restoration of the slate roof and its spires was completed in August 2000.

Greek Village – The University showed its commitment to Greek life at Mercer with the construction of the new Greek Village. The new fraternity and sorority
houses opened in the fall of 2000. The 18 new buildings house a total of 150 stu-
dents and provide common meeting rooms for each organization.

**New Campus Apartments** – The seven new apartment buildings that opened fall
2000 house 200 students.

**Knight Hall** – Over the last year and a half, this Humanities building underwent a
complete renovation from the ground to the roof. It is now equipped with high-
technology classrooms and offices. This building houses the College of Liberal
Arts’ departments of Foreign Languages and Literatures, Philosophy and
Christianity.

**Groover Hall** – This historic building in the heart of the Quad was completely ren-
ovated during the summer of 2000. Originally built as a gym, this building has
housed the cafeteria, the Tift College of Education and the Academic Resources
Center. Today, it is home to the College of Liberal Arts’ Department of
Interdisciplinary Studies.

**Police Station** – This building was constructed near new campus housing on
Winship Street. Mercer Police officers use this facility as a home base for campus
safety.

**Religious Life Center** – This $1.6 million facility, which opened fall 2001, houses
the Baptist Student Union and other campus religious organizations. The
advanced level of audio/visuals in the multipurpose room enhances the gathering
space for the religious life of the campus.

**McCorkle Music Building** – This impressive 28,000-square-foot facility opened
fall 2001 and houses the College of Liberal Arts’ Department of Music. The 200-
seat Neva Langley Fickling Recital Hall is one of the most acoustically sound in
the Southeast.

**Human Resources and Recreation Building** – Built to provide transitional
space during the campus expansion program, the first floor of this new facility
serves as temporary quarters for campus recreation and wellness. The area also
offers a gym, weight room, aerobics room and cardiovascular room. These items
will move to the University Center when it opens early in 2004. The second floor
of the building houses the Human Resources offices.

**Mercer Hall** – This new 208-bed facility is a replacement building for the old
University Hall torn down in 2001. The building is designed for upperclass stu-
dents.

**Sherwood Hall** – This historic residence hall has been home to some of Mercer’s
most famous alumni and was until the renovation the only remaining residence
hall on campus with community style bathrooms and without air conditioning. The
renovations in the summer of 2001 allow this facility to be viable for years to come.

**University Center** – The University celebrated the opening of the building in
March 2004. Located in the center of the Macon campus on the site of the former
Fraternity and Sorority Row, the 228,000-square-foot facility encompasses near-
ly 8 acres, or approximately the size of three football fields. This $40 million state-
of-the-art building contains a gym with three courts, pool, fitness center, weight
room, group fitness room, and cardiovascular rooms for students, faculty and
staff.
Entering The University

Admission from Secondary Schools

Mercer University seeks to admit students who have outstanding academic credentials and strong personal character that indicate they will be able to positively contribute to the diversity and richness of the campus, both inside and outside the classroom setting. Applicants’ records should reflect a strong commitment of purpose to their educational goals, a sense of responsibility to themselves and their community, and a promise of growth intellectually and socially.

To be fully admitted into the University’s traditional undergraduate program, first-year candidates should meet the following requirements:

1. Be on a College Preparatory Curriculum with the anticipation of completing at least 16 academic units in the following subjects: English (4 units), Mathematics (4 units), Laboratory Science (3 units), Social Science/History (3 units) and Foreign Language (2 units) with at least a 3.0 grade point average (on a 4.0 scale).

2. Achieve a score of at least 1000* on the Scholastic Assessment Test (SAT) I or converted American College Testing (ACT) assessment scores from the English and Math sections. Multiple tests will be combined with highest verbal and mathematics scores. Mercer University's SAT code is 5409, and ACT code is 0838. (The School of Engineering highly recommends applicants pursuing a degree in engineering have a minimum 550 math score on the SAT or 24 math score on the ACT.)

Mercer is currently determining the use of the New SAT. Information on how Mercer will interpret and use scores in the admission and placement of students may be found on our Web site at www.mercer.edu/admissions in January 2005.

3. Be in academic and disciplinary good standing at the current or last institution attended.

* Students not meeting minimum admission requirements may have the following options:

1. Be considered for Mercer’s Freshman Summer Program to demonstrate their college preparedness.

2. Be considered for admission by submitting additional academic information (new SAT/ACT scores, high school transcripts).

Application Process for First Year Applicants

Application Materials and Supporting Documentation

- Application for Admission
- $50 non-refundable application fee
- Official High School Transcript(s)
- Official SAT or ACT scores (Scores on official high school transcripts are accepted)
Students may apply to Mercer University’s traditional undergraduate programs through a rolling admissions process. Applications are accepted at any time, but evaluations do not begin until September of the applicant’s senior year of high school. An admission decision is rendered once all official documents have been received (high school transcripts, SAT/ACT scores). The applicant is notified within two-four weeks of the completed application having been received and processed by the Office of University Admissions.

Acceptance Notification and Intention to Enroll

Those who intend to enroll should submit a $300 deposit by May 1 in the year of desired enrollment to reserve a place in the class. The deposit is refundable until May 1 for those students admitted to the summer or fall semesters. The refund date for spring semester is December 1. Students may request a refund of the deposit before the stated deadline by submitting a written request to the Office of University Admissions. Deposits on file or made after the stated refund deadline are automatically non-refundable.

Special Admissions

Applicants with General Education Diploma (GED)

Applicants may be considered for admission with a General Education Diploma. These applicants must meet the following requirements for admission to the traditional undergraduate program:

1. Have a minimum GED score of 2,500 and have met the score of 400 or above on all sections.
2. Have a score of at least 1000 on the SAT I or 22 on the ACT assessment.

Home-Educated Applicants

Home-School Admission Information

The University has worked with a small, but growing, number of home-schooled applicants and has established methods to evaluate these students in a manner that is appropriately comparable to other freshman applicants.

For traditional freshman applicants, Mercer requires students to complete the College Preparatory Curriculum (CPC) from an accredited high school in order to be considered for freshman admissions. Students who cannot verify CPC completion with an accredited high school must show academic strength in the CPC subjects through a combination of SAT II, Advanced Placement (AP) exams, college level coursework, and/or portfolio. The University uses the SAT I or ACT exam results to evaluate a student’s overall academic knowledge.

The required CPC subject areas and units are:

1. English, 4 units;
2. Mathematics, 4 units, including Algebra II, Geometry and a fourth mathematics for which Algebra II is a prerequisite;
3. Science, 3 units, including lab courses from life and physical sciences;
4. Social Studies, 3 units, including American and World Studies;
5. Language, 2 units, both units must be in the same language.
The University then reviews the entire file of a home-schooled applicant in comparison with other applicants in selecting the most qualified students for admission.

* A unit is often referred to as a Carnegie Unit and represents a full academic year of credit.

**Early Admission**

Early Admission is granted to mature, rising high school seniors who have above average SAT/ACT scores and exceptional achievement in high school course work. Candidates should follow the normal application procedure and submit three letters of recommendation. The letters must be from their principal/headmaster, their guidance counselor and their parent/s or guardian/s.

The letters from the high school administrators must state the requirements that the student must fulfill at Mercer in order to receive a high school diploma. The letter from the parent/s or guardian/s must state their permission for the student to enter the University. The candidate is also required to interview with a senior officer in the Office of University Admissions.

**Advanced Placement, College Level Examination Program, and International Baccalaureate Credit**

Credit is awarded to those students who take Advanced Placement (AP) courses at the high school level and score a 3 or higher on the examination administered by the Educational Testing Service. In certain cases, a score of 4 or 5 will allow a student to receive two course credits. Applicants should request a score report from The College Board be sent to the University's Office of the Registrar.

The University also awards credit for examinations administered by the College Level Examination Program (CLEP). Credit is given for scores at the 50th percentile or higher on the general and/or subject exams. For more information on the CLEP examinations, contact the Sylvan Learning Center at (478) 405-7425.

The International Baccalaureate Program is an internationally recognized curriculum that is taught at numerous high schools in the United States, Canada and other countries. Mercer awards credit for scores of 5, 6, or 7 on the Higher Level examinations of the International Baccalaureate Program.

Score reports should be included with the student's final high school transcript or from the International Baccalaureate office. Advanced Placement, CLEP and International Baccalaureate credits that satisfy University criteria may be applied toward the Bachelor of Science in Engineering degree only for courses that are required in the Engineering curriculum.

**Students may not receive more than a total of 32 semester hours of credit from any or all these sources.**

**Readmitted Students**

Students who wish to enroll in the University after an absence of more than one semester must be in good standing with the University and have a cumulative grade point average of 2.0 or higher. If applicable, a transcript from each institution attended during a student’s absence from the University must be submitted as part of the application process.* The application for readmission should be made with the Office of the Registrar. Readmission should be requested at least
four weeks prior to the date of anticipated enrollment.

Students applying for readmission who do not have a cumulative grade point average of 2.0 and who are not in good standing with the University are required to request readmission by letter addressed to the Dean of the school/college of prior enrollment. The letter and application form should be presented at least four weeks prior to the date of anticipated enrollment.

As a general rule, readmitted undergraduate and graduate students are permitted to graduate from Mercer University according to the degree requirements set forth in the Bulletin under which they originally enroll. However, students who leave the University and do not re-enroll for three consecutive years must fulfill the Bulletin requirements in force at the time of re-enrollment.

Students who seek readmission after ten years must reapply with the Office of Admissions.

* Students who seek readmission after five years must secure new transcripts from all other institutions attended.

### Application Process for Transfer Applicants from other Colleges/Universities

Candidates for transfer admission from a regionally accredited college or university should submit: an application for admission with a $50 non-refundable application fee and official transcript(s) from all colleges/universities attended. To ensure proper evaluation of transfer credit, transfer applicants should observe the following deadlines:

- **Summer Semester**: May 1
- **Fall Semester**: July 1
- **Spring Semester**: December 15

Candidates must have completed at least 9 semester hours of college work after high school graduation to be classified as a transfer student. Applicants with less than 30 semester hours earned must submit official high school transcripts and official score reports from the SAT or ACT assessment.

Transfer applicants must be in good academic standing at the college/university of current enrollment or present evidence of satisfactory work in a college/university previously attended. Satisfactory work is classified as a cumulative 2.5 grade point average on a 4.0 scale, with exceptions to be determined by the Admissions Committee. Exceptions may be asked to submit additional documentation or enter the University on a probationary status where certain grades may be required before enrollment in subsequent semesters is allowed.

Transfer applicants will be notified of their admission to the University on a rolling basis. Upon acceptance, an official evaluation of academic standing will be mailed to the student. Those who intend to enroll should submit an enrollment deposit of $300 to hold their space in the entering class.

The deposit is refundable until May 1 for those students admitted to the summer and fall semesters. The refund date for spring semester is December 1. Students may request a refund of the deposit before the stated deadline by submitting a written request to the Office of University Admissions. Deposits on file or made after the stated refund deadline are automatically non-refundable.

Course work with a grade of “C-” or better earned at regionally accredited institutions will be evaluated on a course-by-course basis and considered for transfer
as an equivalent Mercer course or as elective credit. A minimum of 32 credits must be earned in residence at Mercer University for graduation regardless of the number of credits accepted in transfer. These credits are generally the last credits required to complete the degree. At least 12 semester hours of upper division work in a major, concentration, or specialization and 6 semester hours of upper division work in a minor, if elected, must be done in residence.

The University Registrar determines which courses taken at other institutions are directly comparable and will be credited toward completion of degree requirements at Mercer. The maximum credit allowed from all two-year colleges attended is 64 semester hours (96 quarter hours). Developmental and institutionally-based courses will not be accepted for transfer credit. In addition, courses in programs not available at Mercer (e.g. vocational programs) will not be accepted.

Correspondence work will not be accepted for credit toward a degree. The University does accept courses from the Independent Study Programs of the University of Georgia for transfer credit; the maximum credit accepted is 9 semester hours. The maximum credit allowed for extension work of a non-correspondence nature is 12 semester hours. This limitation does not apply to work taken in off-campus permanent centers. The maximum credit allowed for off-campus work is 30 semester hours. No more than 30 semester hours is allowed for combination of off-campus and extension work. Such work must be taken before the student reaches junior status.

Special Student (Non-Degree) Status

Candidates who have not met all entrance requirements may, under certain conditions, be admitted to the University. These students are not considered to be candidates for degrees. They generally fall into three categories, as described below:

Transient Students

Candidates currently enrolled and in good standing at another college or university may be admitted as a transient student. Applicants should follow the University’s transfer Admissions procedure. Additionally, a letter from the Dean of the college or school where the student is currently enrolled must be sent to the Office of University Admissions. The letter must give specific approval for the student to attend Mercer and specify the courses that may be taken.

Unclassified Students

Candidates may apply to enroll in courses to qualify for admission to graduate or professional schools. These students will not be classified for enrollment purposes. Graduate students not in the Mercer Graduate Program may enroll as postgraduate-unclassified students. The application for admission must include an official transcript from the last college/university attended.

Auditors

Candidates may apply for auditor status and enroll in a course(s) as an auditor. Permission of the instructor is required. Auditors are subject to auditing regulations, as described in the Academic Regulations section in this Bulletin. Information about auditing courses can also be found in this section. The audit fee is listed in the Financial Information section of the Bulletin.
International Students

Students from countries other than the United States are an important part of the University community and are encouraged to apply.

Admission Policies for International Students

International students wishing to apply for admission should request application forms from the Office of International Admissions. An application may be made in any given semester at least three months prior to enrollment. An application fee of $100 is required. International students must meet the admission requirements listed below. This includes freshmen or first-time students as well as transfer students.

Definition of an International Student

An F-1 (Student) Visa is required for study at Mercer University of all students who are not citizens of the United States. An I-20 form is issued to all accepted and approved international applicants. The I-20 form is used to obtain the F-1 Visa. The University has been authorized under federal law to enroll non-immigrant alien students and to issue I-20 forms.

English Language Requirements

Qualified students applying for undergraduate studies whose native language is not English may be eligible for admission into the University if they can show proficiency in English. The University’s minimum level proficiency level is a score of 550 on the Test of English as a Foreign Language (TOEFL). The computerized version of the test is scaled from 0-300 and the minimum proficiency level desired is 213. Qualified students who present a TOEFL score below 550 (213 computerized version) or who have no TOEFL score may be conditionally admitted contingent upon their successful completion of English Language Institute (ELI) course(s). Placement testing is done upon arrival for conditionally admitted students who have no TOEFL score.

Refer to individual graduate school programs for international admission requirements. The English language ability of all students whose native language is not English will be evaluated upon arrival for advising purposes.

International Transfers

International transfer applicants must submit official transcripts for university level work completed or attempted outside the United States, as well as official transcripts for courses taken in the United States. All applicants must submit official documents in order to be considered for admission. If the official documents are written in a language other than English, it is the applicants’ responsibility to submit a CERTIFIED English translation to the Office of International Admissions before being considered for admission. Students requiring NCAA Clearing House approval or engineering students (see School of Engineering section) needing an outside credential evaluation should submit official transcripts in their native language in addition to official transcripts in English.

International Admission Requirements

A completed application package requires:
(1) The $100 application fee (2) official secondary school or official university
transcript(s) (3) an official TOEFL of 550 (213 computerized version) (see English Language requirements above) and a minimum 1000 SAT score or 22 ACT score(s); and (4) a Declaration of Finances as evidence of the ability to meet the costs of an education at Mercer. The University requires each international applicant to complete a Declaration of Finances in U.S. dollar equivalent and subject to approval by the Director of International Admissions.

**Deposits and Insurance**

Accepted international students must pay the appropriate fees that include a US $500 enrollment deposit and orientation fee drawn on a U.S. bank or U.S. dollar account. Once enrolled, all F-1 and J-1 students must participate in the University Accident and Sickness Insurance Program, the cost of which is included in tuition fees. Coverage is for a 12-month period and is available for spouses and dependents of students. Exceptions can be made only if the student can present evidence of adequate, existing coverage.

**Immunization Policy**

All students must provide a statement of immunization or immunity against Measles, Mumps and Rubella (MMR), giving the month and year of immunization. A statement of “up to date” is not sufficient. Two doses of Measles (Rubeola) vaccine are required. Students must have been at least 12 months old when the first Measles dose was received. Physician-diagnosed disease is proof of immunization against measles, but not rubella. Students born before 1957 need Rubella immunization only.

If a student is unable to provide dates of immunization to Measles, Mumps, and Rubella, he or she may document immunity by blood test at the student's expense. If this testing shows no immunity to Measles, Mumps and Rubella, the student may register following documentation of the first dose of MMR, with the second to follow in 30 days, if required.

Immunizations for the following diseases are recommended, but not mandatory: chicken-pox (variella), hepatitis A, hepatitis B, polio and tetanus. The most recent tetanus booster should have been within the past 10 years. Immunization against meningococcal meningitis is recommended for college students.

Tuberculosis screening (within the past year) is required of all new students. Students should be tested by a PPD skin test (Mantoux). The tine tuberculosis is not acceptable. Students should be tested regardless of prior BCG vaccination. Any student with a positive skin test will be required to provide a report of a normal chest x-ray (done within the past year) to be eligible to register. Individuals with a positive tuberculosis skin test should be evaluated by a physician.

Do not assume that childhood immunizations are adequate. Requirements have changed during the past several years. Medical facilities in the U.S. and in other countries are required to keep records of vaccinations. Additional sources of immunization information include community clinics, health departments and schools.

Mercer requires the signature of a physician or health care provider on the immunization history form. Students should make copies of the completed health form for their own files, and then mail the original forms. Do not rely on health care providers, family members, or other colleges to mail the forms.
Health Insurance
The University recognized the need for students to be covered by a health insurance plan. Therefore, it encourages students to have insurance coverage through their families’ or an individual health plan.

Information for Veterans and Others Eligible for Veterans Benefits
Individuals who contemplate enrollment and who are eligible for financial assistance through the U.S. Department of Veterans Affairs should contact the University’s Office of the Registrar.
Student Life

The Mercer community is mindful that the University was founded by Georgia Baptists to serve a Christian purpose. The University, therefore, strives to be a community that exemplifies the compatibility of sound scholarship and Christian faith. It encourages commitment to this faith as a way of life. Student life at the University offers a wide range of resources, which promote intellectual, cultural, social, vocational, physical, psychological and spiritual growth. This occurs through the services of the Division of Student Life represented by the Vice President and Dean for Student Life and the offices of Counseling and Psychological Services, Housing and Residence Life, Judicial Education, Recreational Sports and Wellness, Campus Life and Student Support Services. The University is a community nurtured by co-curricular and extracurricular opportunities for personal development.

Student Government

Mercer University recognizes the significant role of students in institutional decision-making. Students in the University’s schools and colleges serve with faculty and staff on many committees. Various student government organizations serve as the voice of the students and are liaisons with the administration and faculty.

The Student Government Association is the voice of the student body. The executive branch of the Student Government is comprised of seven student body officers and the chairpersons of the following standing committees: academic affairs, student life and organizations, fiscal affairs, campus safety and improvements, contract services, public relations and elections, and heritage life. These committees are open to all students. The legislative branch of Student Government is the senate comprised of five representatives of each class and five senators at large.

The senate represents the interest of students in social and academic matters and funds projects and programs of benefit to the student body and the larger community.

The Honor System

Academic integrity is maintained through the honor system. This system imposes on each student the responsibility for his or her own honest behavior and assumes the responsibility that each student will report any violations of the Honor Code. The Honor System was instituted in 1954 and has been in operation since that time. Its success has been the result of student respect and concern.

The undergraduate honor system is administered by the undergraduate students. An Honor Council is responsible for decisions on cases of alleged violations. The graduate honor system is governed by policies established by the Graduate Council of Mercer University. An Honor Committee composed of five members of the Graduate Faculty is responsible for decisions of alleged violations.

By the act of entering Mercer University, each student personally consents to Mercer’s Honor System and thereby agrees to be governed by its rules. Furthermore, each student is personally responsible for knowing the rights and obligations as set forth in the Honor System. The student is also expected to cooperate with all proceedings of the Honor System and to participate fully in the
Honor System. Students who refuse to accept the Honor System will be denied admission.

**QuadWorks**

QuadWorks is a comprehensive co-curricular programming board responsible for developing and presenting educational, social, and cultural programs which compliment Mercer’s educational community. QuadWorks student-run committees include: Mercer Nights, Weekenders, Spirit, Cultural Arts, Variety and Day Timers.

**Honor Societies and Student Organizations**

Mercer currently has approximately 120 active student organizations, including departmental, religious, special interest, governmental, social, athletic, and honor organizations. For information, students may visit the Office of Campus Life.

*Phi Kappa Phi* is a national honor society with the primary objective of recognizing and encouraging superior scholarship in all fields of study. The University’s chapter was installed in 1982. Membership is open only to juniors and seniors who have demonstrated unusual achievement in scholarship. *Phi Eta Sigma* is a national honor society open to freshmen of good character who earn a grade point average of at least 3.5 during one or two semesters of the freshman year.

A number of nationally affiliated honor societies have been established: *Beta Beta Beta* (biology), *Delta Sigma Pi* (business), *Gamma Sigma Epsilon* (chemistry), *Lambda Pi Eta* (Communication and Theatre Arts), *Alpha Psi Omega* (drama), *Kappa Delta Epsilon* (education), *Phi Alpha Delta* (English), *Phi Alpha Theta* (history), *Scabbard and Blade* (military), *Mu Phi Epsilon* (music), *Pi Sigma Alpha* (political science), *Psi Chi* (psychology), *Alpha Kappa Delta* (sociology) and *Tau Beta Pi* (Engineering).

*Omicron Delta Kappa National Leadership Honor Society* selects junior and senior students on the basis of leadership, scholarship and service. *Order of Omega* is a national honor society for Greek organizations selecting juniors and seniors on the basis of exceptional scholarship, leadership and service.

Other student organizations include the *American Chemical Society*, *American Society of Mechanical Engineers*, *Association for Communication and Theatre Students (ACTS)*, *Association for Computing Machinery*, *Biomedical Engineering Society*, *Institute of Electronic and Electrical Engineers*, *Institute of Industrial Engineers*, *Mercer Debate Society*, *Mercer International Student Association*, *Mercer Players*, *National Society of Black Engineers*, *National Society of Professional Engineers*, *Organization of Black Students*, *Psychology Club*, *Society for Technical Communication*, *Pi Sigma Sigma* (physical sciences), *Society for Women Engineers*, *Sociology Club* and the *Mercer Choir and Band*.

National fraternities and sororities have been a part of the Mercer community since the 1870's. The following fraternities have chapters on campus: *Alpha Phi Alpha*, *Alpha Tau Omega*, *Kappa Alpha*, *Kappa Alpha Psi*, *Kappa Sigma*, *Lambda Chi Alpha*, *Phi Delta Theta*, *Pi Kappa Phi*, *Sigma Alpha Epsilon* and *Sigma Nu*. The sororities are: *Alpha Delta Pi*, *Alpha Gamma Delta*, *Chi Omega*, *Delta Sigma Theta*, *Phi Mu*, and *Zeta Phi Beta*.

Students publish a campus newspaper, *The Cluster*. The University literary magazine, *The Dulcimer*, is published by a staff of students. Additionally, the university has a closed-circuit television station, known as Mercer 99, which shows movies and locally created content.
Recreational Sports and Wellness

The University offers a varied program of recreational activities for both men and women. Scheduled games are played in individual and team sports including flag football, basketball, softball, volleyball, tennis, soccer, bowling and golf.

The University Center contains a gym with three courts, pool, fitness center, weight room, group fitness room, and cardiovascular rooms for students, faculty and staff. The 228,000 square foot, state-of-the-art University Center opened in spring 2004. Additionally, the Department of Recreational Sports and Wellness has a mission to provide the opportunity for all Mercer students to improve their total health and quality of life through participation in comprehensive education, fitness and health promotion activities in a health environment based on individual needs and interests.

Students are encouraged to participate in an aerobic or fitness class led by well-qualified and experienced instructors, to get help with their workout by meeting with a certified personal trainer, or to check out a video or book from the Wellness Library. Students can receive help with smoking cessation or weight management. The goal of these programs is to learn the life health skills that will enhance the quality of each student's life and work forever. The goal is to help you reach YOUR health goal.

Intercollegiate Athletics

The University provides for a program of intercollegiate competition in men's basketball, baseball, tennis, golf, soccer, cross-country and rifle and women's basketball, tennis, soccer, softball, volleyball, cross-country and golf. Rifle is also a co-ed sport. Mercer is a Division I member of the National Collegiate Athletic Association (NCAA) and the Atlantic Sun Conference. A copy of the Equity in Athletics Disclosure Act and the annual NCAA Graduation Rate reports are on file in the Office of the Registrar.

Religious Life

Opportunities for significant spiritual growth are an integral part of Mercer University campus life. University Worship is provided for the entire Mercer community in Newton Sanctuary each Wednesday morning. Voluntary involvement in religious activities is fostered by a broad spectrum of denominational organizations. The Religious Life Center is a hub of religious life on campus. Students of different faiths meet weekly in the center for inspiration and fellowship.

The following organizations are available: the Baptist Student Union, Presbyterian Reformed University Fellowship, Episcopal Canterbury Club, Catholic Newman Ministry, Methodist Student Fellowship, A.G.A.P.E. (All God's Anointed People Evangelizing), Fellowship of Christian Athletes and V.O.I.C.E. (Vocational Opportunities in Christian Experience) which is a student led organization committed to helping students explore their calling to full time Christian service and meets monthly during the school year.

Cultural Activities

The Department of Music presents over seventy concerts in the new Neva Langley Fickling Recital Hall, Newton Hall, Willingham Hall, and the Grand Opera House. The Music at Mercer concert series offers students the opportunity to hear a variety of world-class performing artists in a university setting. As well, the con-
Counseling and Psychological Services

Counseling and Psychological Services (CAPS) wants to help students achieve their highest potential and thrive in their lives and learning. CAPS counselors are prepared to assist students in a variety of personal development areas. Confidential counseling services are available to currently students upon request and at no additional charge. Counselors also provide consultation and outreach services to the Mercer community. Referrals to off-campus mental health services will be made when necessary and upon request.

Learning and training opportunities are also provided for students who desire to be in the helping professions. CAPS serves as a field placement site for undergraduate students, as well as graduate students in the Mercer Family Therapy Program. In addition, CAPS serves as advisor to the coordinator of the Peer Educators group.

CAPS is located behind the MEP residence hall, and is staffed by two doctoral-level counselors and an administrative secretary.

Career Services

Career Services provides support to students and alumni in the areas of decision-making and networking. Guidance is available for those who wish to identify or clarify their academic major, vocation, or career path. Students and alumni can view and be informed of ongoing full-time, part-time, and internship opportunities by registering on-line with SUCCESSTRAK. Annual career days, an academic majors fair, a senior kick-off event, and presentations on resume design and other job search topics. For more information, visit the website at www.mercer.edu/career.

Practical Experience: Cooperative Education and Internships

Mercer University offers a variety of opportunities to obtain practical experience through cooperative education and internships. Students integrate work in the classroom with practical experience by alternating periods of regular on-campus coursework with periods of employment in industry, business or government. Mercer University encourages students to view the employment phases of the program not as mere practicums, but rather as essential to the educational process. The University thus requires that students maintain a satisfactory standard of performance in their jobs.

Work assignments exist or can be developed in almost all areas of study. Through diversified types of employment, students acquire a wide range of experience in fields related to their majors. The level of responsibility and expertise required for the job increases to match students’ progress through the academic curriculum, thus assuring a stimulating, challenging employment situation. Salaries are established by individual employers and often increase as the student progresses academically.

Students who are formally admitted into a cooperative education program may
be certified as full-time students during terms of employment for enrollment verifica-
tion purposes. Students registering for cooperative education in the College of Liberal Arts and the Stetson School of Business and Economics sign up for CED courses (CED 190, 290, 390, 490). Students receive one hour of credit for each semester of successful enrollment in the cooperative education program.

The Prerequisites for participation: Minimum GPA of 2.5; approval of the program faculty advisor in the student's home school; and satisfactory residency requirements.

Practical experiences that provide credit may take one of four forms:
1. Internships: One semester or summer work period.
2. Alternating: Semester or summer work periods alternated with academic semesters.
3. Integrated (parallel): Full-time or part-time course work and work periods. Students should be enrolled in a minimum of six hours of non CED (cooperative education) credit and work a minimum of 15 hours a week. Students enrolled full-time should work no more than 20-25 hours a week.
4. Combination alternating/parallel: Combines the features of the full-time alternating and includes one or more parallel rotation. Students should contact Career Services for specific details and assistance.

School of Engineering also encourages students to participate in experiential education. Please refer to the Engineering course description section in this bulletin to learn more about the specific requirements.

Orientation

All new students are encouraged to attend summer orientation programs. These sessions provide occasions to complete academic assessments, gain an overview of curricular programs, learn more about University resources, and meet with faculty regarding course registration. Additionally, Orientation for new first year students and transfer students begins several days prior to the start of classes each semester. All new students are expected to participate in these sessions. New Student Orientation is coordinated through the Office of First-Year Programs and Academic Advising.

The Office of First Year Programs and Academic Advising

Mercer University recognizes the importance of first year students making a successful transition from high school to college. The Office of First Year Programs and Academic Advising provides programs and services to support the academic success and satisfaction of students during their critical first year. Located in Penfield Hall, staff members coordinate the advising of new students, serve as liaisons between first year students and university offices, and coordinate the First Year Experience Course, UNV 101. Additionally, they serve as an information, training, evaluation, and resource center for academic advisors and instructors of the first year experience courses. Academic support is provided to first year students each semester through individual academic counseling and middle- and end-of-semester interventions.
Academic Resource Center (ARC)

The Academic Resource Center (ARC), located in the Connell Student Center breezeway, is designed to help each Mercer student reach his or her academic potential by stressing individual development in learning. In addition to college study skills classes (LSK 185 and 186), individual tutors and study groups are available to assist students in major subject areas. The ARC also provides campus-wide coordination of Supplemental Instruction, an intensive and highly structured group tutoring program, for selected high-risk courses. In addition, workshops are offered regularly on topics ranging from test taking to time management.

The ARC’s computer lab provides word processing, electronic mail, Internet access, and software programs to enhance student success.

During fall and spring semesters the ARC offers 24-hour service, opening at 2 p.m. on Sundays and closing at 5 p.m. on Fridays. All services are provided free of charge.

For more information visit the ARC website at http://www.mercer.edu/arc.

Library Services

The primary mission of the Mercer University Libraries is to serve as a gateway of information resources through strong collections and innovative, technology-rich patron services to support the present and future educational needs of the University community. The four Mercer libraries and three Regional Academic Centers’ library collections offer a wide variety of print, non-print and electronic resources, including Web-based library catalogs and remotely accessible full-text resources.

Mercer is a full participant in GALILEO, the award-winning statewide library network of full-text resources, e-books and indexes that brings a full array of information resources to the desktop. Combined, the University’s libraries are a powerful part of the curricula of the schools and colleges.

The Jack Tarver Library in Macon serves primarily undergraduates through the College of Liberal Arts, the Macon programs of Stetson School of Business and Economics, Tift College of Education, the School of Engineering, the College of Continuing and Professional Studies and the English Language Institute.

The Monroe F. Swilley Jr. Library in Atlanta serves Southern School of Pharmacy; McAfee School of Theology; Georgia Baptist College of Nursing; the Atlanta programs of Stetson Business and Economics, Tift College of Education, the College of Continuing and Professional Studies and the English Language Institute.

The Medical Library and Peyton T. Anderson Resources Center, located in the School of Medicine, offer a variety of materials that support the Medical School’s problem-based curriculum, graduate programs, faculty research and development and community health interests.

The Furman Smith Law Library, located in the Walter F. George School of Law on Georgia Avenue, is the center of legal research for faculty, students and the local bar community.

Upward Bound

Upward Bound, funded by the U.S. Department of Education and sponsored by Mercer University, is a pre-college and pre-vocational program for high school students.
students from income specific or disadvantaged backgrounds. The program is
designed especially for those students who have demonstrated aptitude and/or
potential for study beyond high school, and includes an extensive summer com-
ponent. Upward Bound is one of three Mercer University Trio programs.

**Educational Opportunity Center**

The Educational Opportunity Center (EOC) is a grant funded program of the
U.S. Department of Education, that promotes postsecondary education among
adults who qualify. An emphasis is placed on providing assistance with the postsec-
ondary application process and financial aid. Pre-college assistance is also offered
in the areas of academic assessment and remediation, career counseling, and
study skills assistance. EOC is one of the three Mercer University Trio programs.

**Student Support Services**

Student Support Services is a federally funded program which provides serv-
ices to first-generation, income specific, or students with documented disabilities.
These services include: an early arrival freshman pre-orientation activity called
Opportunity Scholars, personal counseling and mentoring, tutorial services, cul-
tural activities, academic advising, financial aid counseling and assistance in
graining admission to graduate and professional schools. Funds have also been
awarded by the U.S. Department of Education for a Student Support Services
Freshman Scholarship to eligible program participants.

The Student Support Services Office is located on the third floor of the Connell
Student Center. Student Support Services is one of the three Mercer University
trio programs.

**Disability Services**

Students with a documented disability must register themselves with a
Student Support counselor by providing appropriate documentation soon as pos-
sible. Documentation verifying disability should be recent and should list appropri-
ate academic accommodations, if any.

Counselors will review documentation to determine what reasonable and
appropriate accommodations, if any the student requires. The student will then
receive an Accommodation Form to present to their instructors to sign. **Students
should present the form to faculty during the first two weeks of class to pre-
vent a lapse in services or accommodations. All registered students with a
documented disability, regardless of whether or not the student intends to
utilize the services or accommodations, must complete an Accommodation
Form each semester.**

**Minority Affairs**

The Minority Affairs Office is committed to providing opportunity for Mercer
University minority students to be actively engaged in the "Mercer Experience", while
developing a sense of community. The services provided through our Minority
Mentoring Program are: free tutorial assistance in most freshman courses, a person-
al mentor, academic, social and cultural workshops and trips, an early arrival fresh-
man retreat and access to local minority professionals in your general area of study.
This office also provides support and leadership to various student organizations,
such as the organization of Black students and the Minority Mentor Program.
Housing and Residence Life

Mercer University recognizes that a valuable aspect of one's college education is the experience of living on campus. The Department of Housing and Residence Life promotes the principles of respect and responsibility within the Mercer community, and provides services and activities to assist resident students. All first year and sophomore students under 21 years of age are required to live in residence halls. Exceptions include those students living with parents or guardians within a reasonable commuting distance, and students who are married or are single parents. Resident students are required to sign a residence hall contract for the academic year. Applications for residence hall rooms and apartments are available through the Department of Housing and Residence Life. For additional information about living on campus, please see the Lair student handbook or on-line at www2.mercer.edu/housing/Macon.

University Judicial System

The University Judicial System recognizes the need for students to maintain a standard of conduct befitting an academic community. The Judicial System receives and adjudicates all charges of social misconduct and violations of University rules and regulations for individual students as well as student organizations. Students or organizations that violate these regulations or behave in such a way as to bring reproach upon self or the University are subject to penalties ranging from written reprimand to suspension or expulsion.

A description of the judicial process appears in the Lair and the Judicial System Handbook.

Dining Services

Nineteen (19) meals each week are served at the Fresh Food Company, the university's on campus restaurant. This cafeteria, located in the Connell Student Center, offers all-you-care-to-eat buffet style dining. Breakfast, lunch, and dinner are served Monday through Friday. On Saturday a continental breakfast, brunch and dinner are served and on Sunday brunch and dinner service is provided. The Food Court, located in the new University Center, is another dining area on campus. Here students will find Subway, Chick-fil-A, Bene Pizzeria and Grill Works, plus a large selection of "grab and go" items. Also located in the University Center is the Java City Coffee Shop. To learn more about food service available at Mercer you may contact Food Service at (478) 301-2925.

Auxiliary Services is responsible for the administration of Mercer University's Meal Plan programs. Students living in residence halls are required to purchase a meal plan in accordance with Mercer University policy. Students living off campus have the option of purchasing any meal plan offered. Stadium Drive and Greek Houses are considered off campus. Changes to meal plan assignments must be made in the first 10 calendar days of the semester. To learn more about the various plans available and their specific costs, contact Auxiliary Services at (478) 301-2741.

The Bear Card

Mercer University provides all students with a multi-service picture identification card: the Bear Card. This electronically encoded card allows students access into dining halls, libraries, the residence hall in which the student lives, the
University Center and other designated facilities on campus. The Bear Card also serves as a University debit card, giving students the option to deposit money into separate meal and Bear Card accounts. It is a safe and easy way to pay for meals at food service locations, buy your books and school supplies in the Bookstore, do laundry in the residence halls, make purchases at vending and copy machines and make purchases at a growing number of Bear Card merchants in the city.

If you have a Wachovia checking account, your Bear Card can be linked to your account and used as your ATM card. To learn more about the Bear Card, call Auxiliary Services at (478) 301-2929.

To activate the debit card function of the identification card, students simply make a deposit on their Bear Card account at Mercer One or online at BearCardOffice.com. If the Bear Card is lost or stolen, it is invalidated immediately upon the report of the loss.

Telecommunications

A full range of telephone service options are available through Bear Touch, Mercer University’s Telecommunications Department. These options include private phone lines in the rooms, long distance service, voice mail, call waiting, three way calling, and caller ID. Students wishing to learn more about their communication choices should contact the Telecommunications Department at (478) 301-2100.

Campus Mail Box

All students are assigned a campus mail box. Official mail from the University to the student will be sent to the campus box with the exception of semester billing statements and semester official grade reports. These two items are normally mailed to the permanent home address. Students are expected to check their campus box regularly for official University correspondence.

Mercer E-Mail

All students are assigned a Mercer e-mail address. This is the address that will be used for official University e-mail correspondence to students.

Student Health Center

The Student Health Center, located in the Medical School Building is the primary provider of health services for all Mercer students. It is staffed by registered nurses who assess all patients and determine the level of care that is necessary. The student may be treated immediately, or referred to a physician at Mercer Health Systems, also located in the Medical School Building.

The Student Health Center is open Monday-Friday; call for current hours.

Confidentiality: All visits to the Student Health Center are confidential. No information will be released to anyone, including University officials, professors, parents or spouses without the written consent of the student.

Class Excuses: Class attendance is an issue between the professor and student. Therefore, no medical excuses for class absence will be issued, except if deemed necessary by the physician.

Immunization Policy: University health requirements are included in the Entering the University portion of this Bulletin.
General medical information is available on the Student Health Center Web site at www.mercer.edu.shc.
Financial Information

2004-05 Academic Year Only
Undergraduate Programs

<table>
<thead>
<tr>
<th></th>
<th>Each Semester</th>
<th>Combined Fall/Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition and Fees</td>
<td>$11,025</td>
<td>$22,050</td>
</tr>
<tr>
<td>Meal Ticket (Required of all)</td>
<td>$575-1,830</td>
<td>$1,150-3,660</td>
</tr>
<tr>
<td>Housing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residence Hall (rates may vary)</td>
<td>$1,700-1,950</td>
<td>$3,400-3,900</td>
</tr>
<tr>
<td>Apartments</td>
<td>$1,800-2,975</td>
<td>$3,600-5,950</td>
</tr>
<tr>
<td>Greek Village</td>
<td>$2,260</td>
<td>$4,520</td>
</tr>
</tbody>
</table>

Tuition and fees listed above cover semester course loads from 12 through 20 credit hours. Course loads under 12 credit hours will be charged on a per-credit hour basis. Any course load greater than 20 hours will be charged at the above listed full-time rate PLUS a per-credit hour charge for each hour greater than 20 credit hours. These rates and the 12 through 20 credit hour rate structure are applicable to the Fall through Spring academic year. Summer rates are charged on a strict per/hour basis.

Per-credit hour rate for 2004-05 Academic Year $735

Graduate Programs and Professional Programs

Cost per credit hour

Stetson School of Business and Economics

Master of Business Administration $454
(Executive Forum Members) $379

Tift College of Education

Master of Education (MED) and Specialist in Education $292

School of Medicine

Doctor of Medicine - First Year $27,876
Doctor of Medicine - Second Year $26,732
Doctor of Medicine - Third Year $25,592
Doctor of Medicine - Fourth Year $24,436

MPH $597/hr
MFT $636/hr
MSR $636/hr
School of Engineering
Master of Engineering .......................................................... $553/hr

School of Law
First Year ................................................................. $25,450
Second Year ................................................................. $23,500
Third Year ................................................................. $22,313

Miscellaneous Fees
Applied Music: Voice, Piano, Organ, Band Instrument, Composition
  One half-hour lesson per week ........................................ $218
  One sixty minute lesson per week ................................ $436
  (These fees are in addition to course tuition charge)

School of Education special fees
  Student teaching (EDUC 492, 592) ............................. $200
  Practicum, fieldwork, etc. (EDUC 398, 399, 485, 486, 493,
    494, 585, 596, 662, 686, 695) ................................. $100
  (These fees are in addition to course tuition charge)

Audit Fee (for each regular course) ................................. $150

Laboratory Fee (charged each semester per designated laboratory class) ........................................... $75
  (The specific courses to which the fee applies will be designated in the Annual Schedule of Classes. Fees may be assessed for some courses not yet determined and included in this bulletin.)

Late Registration Fee ....................................................... $25

Late Fee Payment .......................................................... $25

Dissertation Binding Fee ................................................. $40

Thesis Binding Fee ........................................................ $30

Returned Check ...... $25 or 5% of the face value of the check, whichever is greater. Returned checks must be paid by cash, money order, or certified check. (Note: following two returned checks, students are placed on a "cash only basis").

Transcript Fee (per copy) .................................................. $2
  (Additional fees apply for special services)

Credit by examination ...... Assessed at half the credit hour rate for each credit hour awarded

Co-Op fees ...... Contact the appropriate School for additional information

Please note that the above listed tuition rates, room/board charges, and miscellaneous fees are for the 2004-2005 academic year and are subject to change without prior notice.

Payment of Fees
All tuition and fees are due and payable each semester by the first day of class. Only those students who register for a given semester during early registration will be billed for the semester in advance. New undergraduate students will
be pre-billed provided they have early registered for class. Accounts may later be adjusted and re-billed based on changes in class schedules, housing arrangements, meal plans, and financial aid awards. Students who are not early registered and billed prior to the beginning of the semester must be prepared to pay tuition and fees at the time they register for classes.

If a student is registered for a particular semester but elects not to attend, the student must officially notify the Office of the Registrar. Non-attendance does not cancel charges and the student will be held financially accountable.

Please Note: If payment arrangements have not been made by the end of the drop/add period, the student's registration is subject to cancellation. The University reserves the right to deny access to, or use of, University facilities to any student with an outstanding bill.

Payment of tuition and fees is the responsibility of the student regardless of sponsorship by his or her employer.

The University recognizes the desire of many parents and students to be able to budget educational expenses. For information regarding availability of various payment plans, contact Mercer One at (478) 301-1111.

Method of Payment

Tuition, special fees, housing, board, and other assessments may be paid by cash, check, money order made payable to Mercer University. The University also accepts Visa, MasterCard, Discover, and American Express. If paying online, please use only VISA or MasterCard. Students will be notified of their anticipated amount of financial aid by way of award notifications or letters from the Office of Student Financial Planning. Payment is due by the first day of classes each semester.

Debts

No records are released and no student is considered by the University as a candidate for graduation until all indebtedness to the University has been settled. Mercer One is authorized to withhold and apply to the student's debt any funds needed from the student's payroll check, stipend, scholarship, loans, state grants, or any other student financial aid. Students with outstanding indebtedness will not be eligible to register for subsequent semesters and may be subject to late penalties and interest charges. Unpaid student accounts that are deemed delinquent may be placed with a collection agency. If such action is required the student will be liable for any costs associated with such action. The student should understand that collection costs will be a minimum of 33 1/3% or up to 67% of the outstanding balance.

Contract

The registration of a student signifies the assumption of definitive obligations between the student and the University. It is an agreement by the student to fulfill the terms of the registration contract.

Refund Policy

A student who FORMALy RESIGNS from school prior to the last day of the drop/add period for any term of enrollment will be entitled to a 100% credit of tuition and fees charged for the current term. A student who FORMALLy
RESIGNS from school after this date may be entitled to a prorated credit of the tuition and fee charges if certain criteria are met as described in this policy. The criteria for the Mercer Institutional Refund Policy are based upon federal mandates established by the Federal Return Policy which took effect at all Mercer campuses on August 15, 2000, replacing all existing refund policies throughout the University. The Policy applies whether or not Title IV awards are involved.

Mercer University will maintain a fair and equitable refund policy by adherence to this Institutional Refund Policy in all programs, in all schools, and on all campuses. This policy is subject to change if there are future changes to the Federal Return Policy or other Federal, State, Accrediting Agency, or Institutional policies with which it may conflict.

To FORMALLY RESIGN a student must drop or withdraw from all courses for the term by 1.) personally completing and returning an official Term Withdrawal form obtained from their school's Registrar's Office or Mercer One, or 2.) phoning their school's Registrar's Office and having an official Term Withdrawal form completed for them. The completed form must be received in the Registrar's Office before the resignation process can be finalized. Resignation calculations will be based upon the date the Term Withdrawal form is received in the Registrar's Office. No charges are assessed for housing or meals when a student resigns prior to the first day of class for the term. Dormitory housing charges are refundable on a prorated basis when a student resigns on or after the first day of class. The dormitory housing refund is based on the date the room is vacated and the keys are returned following formal resignation. Meal plan charges are refunded on a prorated basis for the remaining days in the semester once the student has formally resigned, checked out of his or her room, and returned their keys and keycard. When the University has assessed charges in error, a full credit and/or refund of the charges will be made.

Financial Aid awards and disbursements for students who formally resign from the University after the last day of drop/add each term will be returned to the original source of funds in accordance with the Federal Return Policy. Any exception to the Refund Policy will require a written appeal by the student to the Refund Appeals Committee. Students enrolled at the Macon Campus and the Regional Centers should submit letters of appeal to Mercer One. Decisions of the Refund Appeals Committee are final.

If a student ceases attendance without notifying the University, a Federal statutory provision allows the University to use the midpoint of the payment period as the withdrawal date for calculating the Federal Return Policy. Otherwise, the University may use the student's last day of academically related activity if it can document the student's attendance. A calculation for the Return of Federal funds will be completed within 30 days of the school's determination that a student has ceased attendance without proper notification. Any financial aid disbursements, which must be returned to their original source of funding, will then become immediately due and payable by the student to the University and in some cases to the U.S. Department of Education.

The following resignation calculation will be used to determine the prorated amount of tuition and fees to be credited to the student's account and the amount of financial aid to be returned to their source programs:

The total number of calendar days attended by the student = Percentage to

The total number of calendar days in the term of enrollment be retained
The total number of calendar days includes all days beginning with the first day of classes and ending with the last day of exams for the student's official program of study, excluding scheduled breaks of at least five consecutive days or more.

**When the percentage to be retained is equal to or greater than 60% NO tuition credit or refund of Title IV funds is required by the Mercer Institutional Refund Policy or the Federal Return Policy.**

Total tuition and fees for the term of enrollment X (100 - percentage to be retained) = Total tuition and fees to be credited to the student's account

Total amount of Title IV Financial Aid disbursed X (100 - percentage to be retained) = Total Title IV Financial Aid to be returned**

**In most cases the University is required to return only the portion of Federal Financial Aid that has been paid toward institutional charges. Any funds refunded to the student prior to resignation could be repayable by the student to the University or the U.S. Dept of Education. Should the University be required to return federal financial aid funds in excess of those retained for tuition and fees then the student would be immediately responsible for payment back to the University for the full amount of this excess refund.

Total amount to be returned to Non-Title IV funds = Total tuition and fees to be credited to the student's account less the total Title IV Financial Aid to be returned.

Federal Title IV financial aid funds must be returned in the following order:

1. Loans: –Federal Unsubsidized
   –Federal Subsidized
   –Federal Perkins
   –Federal PLUS
2. Grants (& Other): –Federal Pell
   –FSEOG
   –Other Title IV (excluding College Work Study earnings).

Non-Title IV financial aid funds will be returned in the following order:

1. Mercer Institutionally funded Loans
   Mercer Institutionally funded Grants/Scholarships
2. Mercer Endowment funded Loans
   Mercer Endowment funded Grants/Scholarships
3. State and Other Loans
   State and Other Grants/Scholarships
4. Student/Parent Payments

**Sample Refund Calculations:**

First Day of Class = August 22nd  
Last Day of Exams = December 18th  
Holidays = Labor Day, September 3rd  
   Fall Break, October 8th and 9th  
   Thanksgiving Break, November 21st - 23rd
Number of calendar days between August 22 and December 18 = 119 days
Number of scheduled breaks lasting five consecutive calendar days or longer = 5 days
Total calendar days in this enrollment period = 114 days

Resignation Scenario #1: A graduate student formally resigns in the Registrar's Office on September 17th

Typical Charges: $1,959 Graduate Tuition
Financial Aid Disbursed: $3,000 Federal Subsidized Direct Loan of which $1,041 has been refunded to the student.

Calculation: Number of Calendar Days between August 22 (First Day of Class) and September 17 (the date of Formal Resignation) = 27 days
Percentage of charges to be retained* = 27 days = .2368 or 23.7%

114 days

*Note this is the same calculation used for the percentage of Title IV Aid Earned.

Amount of Tuition earned by the Institution = $1,959 x 23.7% = $464.28
Amount of Tuition to be Credited to the Student's Account = $1,959 - $464.28 = $1,494.72
Amount of Title IV funds earned by Student = $3,000 x 23.7% = $711
Amount of Title IV fund to be Returned to the Direct Loan Program = $3,000 - $711.00 = $2,289
Amount of Title IV funds to be Returned by the University = $1,959 x (100-23.7%) = $1,494.72

Amount of Title IV funds to be Returned by the Student = *Since the student received a Direct Loan the student will be responsible for the repayment of the amount borrowed less the amount Returned by the University in accordance with the promissory note signed by the student.

Snapshot of Student Account:
- Tuition $1,959.00
- Direct Loan (3,000.00)
- Refund to Student 1,041.00
- Account Balance -0- At time of resignation
- Tuition Credit (1,494.72)
- University Refund to Direct Loan Program 1,494.72
- Account Balance -0- After resignation

Resignation Scenario #2: An undergraduate student formally resigns in the Registrar's Office on September 17th and turns in their dorm room keys and key card the same day.
Typical Charges:  
Financial Aid Disbursed:  

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>$5,000 Federal Subsidized Direct Loan</td>
<td></td>
</tr>
<tr>
<td>2,000 FSEOG Award</td>
<td></td>
</tr>
<tr>
<td>$9,145 Tuition</td>
<td></td>
</tr>
<tr>
<td>1,750 Dorm Room</td>
<td></td>
</tr>
<tr>
<td>1,480 Meal Plan</td>
<td></td>
</tr>
<tr>
<td>$12,373 Total Charges</td>
<td></td>
</tr>
<tr>
<td>$7,000 Total Title IV Financial Aid</td>
<td></td>
</tr>
<tr>
<td>3,000 Institutional Scholarship</td>
<td></td>
</tr>
<tr>
<td>2,000 Outside Scholarship</td>
<td></td>
</tr>
</tbody>
</table>

Total Charges $12,373  
Total Financial Aid Disbursed $12,000

**Calculation:** Based on the same calculations used in Scenario #1 = 23.7%

- **Amount of Charges earned by the Institution**  
  \[
  \text{Amount} = \$12,375 \times 23.7\% = \$2,932.87
  \]

- **Amount of Charges to be Credited to the Student's Account**  
  \[
  \text{Amount} = \$12,375 - 2,932.87 = \$9,442.13
  \]

- **Amount of Title IV funds earned by Student**  
  \[
  \text{Amount} = \$7,000 \times 23.7\% = \$1,659.00
  \]

- **Amount of Title IV funds to be Returned to the Title IV Programs**  
  \[
  \text{Amount} = \$7,000 - \$1,659 = \$5,341
  \]

- **Amount of Title IV funds to be Returned by the University** (the lesser of $5,341 or $12,375 x (100-23.7%) = $9,442.12

The University will refund $5,341 as follows:  
- $5,000 to Federal Subsidized Direct Loan
- $341 to FSEOG Award

Amount of Title IV funds to be Returned by the Student = *Since the University returned the full amount due to the Title IV programs then there are no funds to be returned to the Title IV programs by the student.*

**Calculation of Remaining Credit for University Charges and Distribution towards Non-Title IV funds:**

- **Total Charges Credited**  
  \[
  \text{Total} = \$9,442.12
  \]

- **Less Title IV funds returned by the University**  
  \[
  \text{Less} = \$5,341.00
  \]

- **Funds to be Returned to Non-Title IV Funds**  
  \[
  \text{Funds} = \$4,101.12
  \]

These funds are distributed as follows:  
- $3,000 to Institutional Scholarship
- $1,101.12 to Outside Scholarship

**Snapshot of Student Account:**

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charges</td>
<td>$12,375.00</td>
</tr>
<tr>
<td>Direct Loan</td>
<td>(5,000.00)</td>
</tr>
<tr>
<td>FSEOG Award</td>
<td>(2,000.00)</td>
</tr>
<tr>
<td>Institutional Scholarship</td>
<td>(3,000.00)</td>
</tr>
<tr>
<td>Outside Scholarship</td>
<td>(2,000.00)</td>
</tr>
<tr>
<td>Student Payment</td>
<td>(375.00)</td>
</tr>
</tbody>
</table>
| Account Balance    | -0-       | **At time of resignation**
Charges Credited (9,442.12)
University Refund to Direct Loan 5,000.00
University Refund to FSEOG 341.00
Funds Returned to Institutional Scholarship 3,000.00
Funds Returned to Outside Scholarship 1,101.12
Account Balance -0- After resignation

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Please be aware that neither pre-enrollment nor dormitory housing deposits will be refunded should the student not enroll in the semester for which the deposit was intended. Mercer One is authorized to deduct from the registration deposit and/or the dormitory housing deposit any sum owed the University by a student at the time a deposit is declared refundable.

Leave of Absence

Approved Leave of Absence

A student who is on an approved leave of absence retains in-institution status for Title IV loan repayment purposes. However, if the student does not return from a leave of absence, the student's loan grace period starts at the date the leave began.

Generally, only one leave of absence may be granted within a 12-month period. The University may grant one additional leave of up to 30 days for a reason not defined in regulations if it determines that the leave is necessary due to unforeseen circumstances.

Jury duty, military service, and conditions covered by the Family and Medical Leave Act are acceptable reasons for granting an additional leave.

Unapproved Leave of Absence

An unapproved leave of absence is a leave granted by the University for academic reasons that do not meet the conditions of the Title IV regulations for an approved leave of absence. However, this unapproved leave of absence must be treated as a withdrawal for Title IV purposes.

For a student who takes a leave of absence that does not meet the requirements for approval, the withdrawal date is the date that the student began the leave of absence.

Overpayment

All payments made by or on behalf of the student shall be receipted to their account. Students do not have to request a refund in the event of an overpayment to their account. Refunds are processed regularly by Mercer One. Students are welcome, though, to contact Mercer One to inquire about their eligibility for a refund and to determine a general time frame of when a refund will be available.

General Information

Books: Books and other supplies are available at the College Bookstore. The cost of books varies with the course of study and course load and may range from $300 to $750 per year.
Parking Fee: No fees are charged for University parking. However, parking decals are required and may be obtained from the University Police or Mercer One. Unauthorized or illegal parking violations are subject to fines set by Mercer Police, and vehicle impoundment. Failure to pay parking fines and penalties will result in the student being denied transcripts and clearance to register for further classes.

Miscellaneous Fees: Fees or fines may be imposed for dorm or property damage, library fines, honor code violations, and campus safety violations.

Fire, theft, and damage to personal property: The University assumes no responsibility for damages or loss of personal property due to fire, theft, or other casualties.

Student Identification: All Mercer students are required to have a valid Student Identification card. A validated I.D. is required for check cashing, dining hall, and library privileges.

Financial Assistance

Mercer University student loan and undergraduate scholarship funds are administered in conjunction with a federally-established policy and philosophy of financial aid for education. The basis of this policy is the belief that parents are the primary and responsible source for helping students meet educational costs, and that financial assistance is available for meeting the difference between potential resources (such as parent's contribution, summer earnings, outside scholarships and awards, etc.) and expenses. Parents and students should carefully review the Financial Information section of the Bulletin in order to be familiar with the actual costs of the University. In addition, other personal expenses such as transportation, books, and supplies should be anticipated.

The purpose of Mercer's financial aid program is to provide assistance to students who, without such aid, would be unable to attend college. Financial assistance may include scholarships, grants, loans, and part-time employment. These types of assistance are extended either singly or in combination. The type of combination or "package" offered depends upon a student's academic record and need for assistance. It is understandable that most students and their families would prefer assistance through a full scholarship or gift program rather than a "package" of assistance, but the package method enables the University to assist more students, thereby increasing the possibility of each applicant receiving assistance.

In order for a student to be considered for every type of assistance available (i.e., Federal, State, and University sources), a Free Application for Federal Student Aid (FAFSA) and a Mercer Application for Financial Aid must be completed each year. Students may complete the FAFSA on the Web at www.fafsa.ed.gov and the Mercer University Application for Financial Aid online at www.mercer.edu/finaid. Georgia residents should also complete the GA Student Grant Application the first year they are eligible.

Mercer's priority deadline for receipt of all required forms is April 1 each year. Forms received after that date will be given consideration as long as funds remain available. Because the FAFSA generally requires four to six weeks processing time, we recommend that this form be submitted to the Federal Processor no later than February 15 each year in order for Mercer to receive the results by our priority deadline of April 1.
Students are encouraged to visit the Office of Student Financial Planning (OSFP) website (www.mercer.edu/finaid) to learn more about financial aid policies and to email their Financial Planning Counselor with any questions related to financial aid.

**Student Financial Aid Policies**

- An applicant for financial assistance must be a U.S. citizen or eligible non-citizen.
- An applicant for financial assistance must be admitted as an eligible degree-seeking student to the University before financial assistance can be awarded. Provisionally accepted students are not eligible for financial aid.
- In most instances, financial assistance is granted only to students who enroll in a course load of at least twelve semester hours, although assistance from certain federal and state programs may be available to those attending less than full-time.
- Financial assistance is generally awarded for two semesters of the regular academic year. Students desiring financial assistance for the summer session(s) must complete a separate Summer Financial Aid application by March 30 each year. These applications are available in the OSFP in early March of each year, as well as on the Mercer website.
- Students receiving scholarships from sources other than Mercer University are required to advise the OSFP. A written statement which identifies the sponsor(s), the term(s) applicable, and the amount of the award(s) is required. Some adjustment of financial aid originally awarded may be necessary. The University reduces self-help (i.e. loan and work) first.
- One-half of qualified students’ final annual financial aid packages will be automatically credited to their account at the beginning of each semester, provided all necessary paperwork is completed (with the exception of student work awards). Work awards are paid directly to the student by check after the student earns these funds. It is up to the student to apply these checks to a balance due, if any, in the Mercer One Office.
- No financial assistance will be disbursed while a student is in verification. Verification is the process by which the Federal Government requires schools to verify the accuracy of information reported by students and families on the FAFSA. Some students' forms will be randomly selected (by the federal processor) for verification, while other forms will be selected by the OSFP. If your forms are selected for verification, you will be notified by the OSFP and asked to furnish supporting documentation.
- With the exceptions of various University funds such as Academic, Athletic, ROTC, and Music Scholarships, assistance is generally granted only in cases of financial need. The fact that a student receives an award one year in no way automatically renews the award for subsequent years. However, every effort is made to see that awards are renewed according to established University criteria. Applicants are reminded to complete a FAFSA annually by February 15 in order to be considered for all types of assistance.
- Recipients of financial assistance who become the subject of disciplinary probation may forfeit financial aid during any period of probation.
This institution is in compliance with Title VI of the Civil Rights Act of 1964 and Title IX of the Education Amendments of 1972 and does not discriminate on the basis of race, color, religion, sex, or national origin.

Academic Scholarships and other University awards are made only to students who attend full-time (minimum 12 semester hours). Following the initial semester award, University awards are renewable for seven additional semesters (fall and spring only) as long as the student continues to meet eligibility criteria.

Financial Assistance may be available for Mercer’s Study Abroad Programs. Students planning to study abroad must notify their Financial Planning Counselor in advance.

Certain Veteran's Benefits must be considered part of the student's financial aid package. It is the student's responsibility to advise the OSFP if VA Benefits are being (or will be) received. Students must be making progress towards the completion of their course of study according to the Satisfactory Academic Progress standards below.

To be considered for financial aid, the student must not owe a refund on Federal or State funds.

Satisfactory Academic Progress Standards

The OSFP is required by Federal and State regulations to review the academic performance of every student at the end of each academic year. Failure to maintain Satisfactory Academic Progress affects a student's eligibility to receive Federal and State financial aid. Mercer's institutional financial aid awards are not affected by Satisfactory Academic Progress regulations.

Satisfactory Academic Progress at Mercer University is defined as follows:

1. Each student must receive a passing grade in at least 67% of all courses attempted at Mercer. A course is considered "attempted" if the student is enrolled in the course at the end of the "drop-add" period.

2. Each student must have the minimum cumulative grade point average required for continued enrollment in the school/college in which the student is enrolled.

3. Undergraduate students must complete their educational programs within 150% of the published length of the program.

A student who fails to meet items 1 and 2 above is given one probationary semester of Federal and State financial aid eligibility at Mercer. To successfully complete the probationary semester, the student must attempt a full load of course work (at least 12 hours) AND receive a grade of "C" or better in at least 12 hours of coursework. Successful completion of the probationary semester will result in one additional probationary semester of Federal and State financial aid eligibility. A student must successfully complete each probationary semester thereafter, as described above, until cumulative academic performance at Mercer meets the Satisfactory Academic Progress standards stated above.

Failure to successfully complete any probationary semester will result in the loss of Federal and State financial aid eligibility until a student's cumulative performance at Mercer meets the Satisfactory Progress standards explained above. Students may appeal decisions made regarding Satisfactory Academic Progress.
by writing the Financial Planning Review Committee, c/o the OSFP. This committee is comprised of Financial Planning representatives who will review all such appeals and notify students of their decisions. Decisions made by this committee are final.

**University Academic Scholarships and Grants**

University academic scholarships and grants are awarded annually through the Office of Admissions to entering full-time freshmen and transfer students. These funds are awarded for eight semesters maximum (Fall and Spring semesters only), provided the student is enrolled full-time and has not completed undergraduate degree requirements. These scholarships are originally awarded based upon academic merit (i.e., high school GPA and SAT/ACT score). Students must submit a University Application for Financial Aid to renew their Academic Scholarships and Grants each year.

Academic and Institutional Aid (i.e., all University scholarships and grants), for students who are members of Cooperative Georgia Baptist Churches, are partially funded by the Georgia Baptist Convention.

**Endowed Scholarships**

Certain scholarships are also provided from University sources, private businesses, civic groups, estates, individuals, and alumni. Most of these scholarships are awarded to students who demonstrate strong academic achievement and proven need for assistance. All scholarships are highly competitive and, despite the generosity of University friends and alumni, there are not enough funds to provide scholarship aid to all qualified students.

When applying for endowed scholarship assistance, it is not necessary to indicate each individual scholarship for which you wish to be considered. The Mercer Application for Financial Aid is a general application, and all applicants will be considered for every scholarship for which they are eligible as long as funds remain available. Scholarships coordinated through the OSFP are listed below. In addition, there are several scholarships coordinated through various departments on campus. Please contact the OSFP for additional information if needed.

- Charles Andrews Scholarship
- Awtrey Scholarship
- Pearl Baker Scholarship
- Barlow Scholarship
- Thomas W. Bennett Scholarship
- Berry Scholarship
- Sara Cheatham Bittick Scholarship
- Bivins Scholarship
- Iverson Brooks Fund
- Edna Boone Memorial Scholarship
- Zonie Brantley Scholarship
- Bryan Scholarship
- M.E. Butler Scholarship
- Paul E. Cable Scholarship
- A & M Cardwell Scholarship
- Richard and Annette Chappell Scholarship
- Clark Scholarship
- Class of ‘31 Scholarship
- Irma and Marvin Coddon Scholarship
- Collier Scholarship
- Charles Connally Scholarship
- Bryan Cook Honorary Scholarship
- Joel J. Cordell Scholarship
- Cousins Scholarship
- Mary & Carl Cranford Scholarship
- Crouse Scholarship
- Barbara Dean Scholarship
- Dodd Scholarship
- Domin Textbook Scholarship
- Donaldson Scholarship
- R.E. Dorough Scholarship
Dowell Scholarship
Elmo Draughon Scholarship
Dunaway Scholarship
Dunwoody Scholarship
Eagle Scout Scholarship
Elyeen R. Elrod Scholarship
Engineering Faculty & Staff Scholarship
Paul Erbele Scholarship
Patricia Evatt Scholarship
Bessie A. Fisher Scholarship
C.S. Futral Scholarship
Futral Shakespeare Scholarship
Galt Scholarship
Robert Mann Gamble Scholarship
C.B. Gambrell Scholarship
Jimmy and Annie Faye Gardner Scholarship
Gay Scholarship
James Gilbert Scholarship
Mary Cleveland Glenn Scholarship
Glover/Abney Scholarship
Goizueta Foundation Scholarship
Moses Gordon Scholarship
Gragg Scholarship
James Gray Scholarship
Robert L. Gunnels Scholarship
Gunnin Scholarship
Hubert Hamilton Scholarship
William B. Hardman Fund
Henry E. Harris Fund
Rufus Harris Scholarship
John & Ruth Harrison Scholarship
Julian & India Harrison Scholarship
J. Freeman Hart Fund
Heard Scholarship
Jean Hendricks Psychology Scholarship
Hendricks Minority Scholarship
Bobbie Bobo Hennecy Scholarship
Highsmith Scholarship
Hinkle Scholarship
Louise Holland Scholarship
Ira Hollihan Scholarship
Ira P. and Lucile F. Hollihan Scholarship
Holsenbeck Memorial Scholarship
Fred W. Hoppe Music Scholarship
Horn Scholarship
Leslie M. and Ethel A. Horn Scholarship
Ellen M. Hudson Organ Scholarship
Irvin Scholarship
E.S. Jackson Scholarship
Emily Jackson Scholarship
Frank James Scholarship
Hal Johnson Scholarship
Hal and Geneva Johnson Scholarship
H. H. Johnson Scholarship
Mary & William Johnson Scholarship
Allie Jolley Scholarship
Allie & Joseph Jolley Scholarship
Ben Hill Jones Scholarship
T.W. Jones Scholarship
A. Justus Scholarship
Evolyn Kennedy Scholarship
Allie Jolley Scholarship
Allie & Joseph Jolley Scholarship
Ben Hill Jones Scholarship
T.W. Jones Scholarship
A. Justus Scholarship
Evolyn Kennedy Scholarship
T.J. & Mary Lawler Scholarship
Hugh Lawson III Memorial Scholarship
Lawton Scholarship
W. G. Lee Music Scholarship
George William Lee Scholarship
Mappin Memorial Scholarship
B. Mathias Martin Scholarship
Martin-Melton Scholarship
Maughon Fund
The Jeffrey Mavro TCO Scholarship
Shannon Mays Scholarship
McCall Scholarship
McCarty Chemistry Scholarship
Clyde McCrea Scholarship
G &G Meeks Scholarship
Robert McDuffie Scholarship
Mens EEE Scholarship
Fred Miles Scholarship
James & Pauline Miles Scholarship
W.L. Moore Scholarship
James Morton Scholarship
Hammond Nicholson Scholarship
Pace Family Scholarship
Parents Scholarship
Patillo Scholarship
Drew W. Paulk Scholarship
Perryman Scholarship
Lamar R. Plunkett Honorary
SC Sigma Nu Records
Thomas Plunkett Scholarship
Myrtle Raines Scholarship
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Deforest Ratliff Scholarship
Arthur & Helen Rich Scholarship
Roberts Scholarship
Roddenberry Fund
Jennifer Sams Memorial Scholarship
Billington Sanders Scholarship
Harold Sangster Scholarship
Saunders Scholarship
Harry Schwartz Scholarship
Rebecca Scott Scholarship
Sellers Scholarship
Sewell Scholarship
C & E Sheridan Scholarship
Siegert Scholarship
Olyn S. & Brunella S. Sims Scholarship
William P. Simmons Scholarship
Janice Singleton Scholarship
Bryan Lambert and "Crook" Smith Scholarship
E. and R. Smith Scholarship
Claude Smith Baseball Scholarship
John Y. Smith Scholarship
Smith-Clark Scholarship
Stansfield Art Scholarship
Robert & Doris Steed Scholarship
Stetson Scholarship
W.F. & Estelle Stone Scholarship
Thelma Stripling and Lee Worsham Scholarship
Stripling/Ruff Scholarship
Sylvester Baptist Church Scholarship
Edward and Fannie Taylor Scholarship
Jackson Williams Tarver Scholarship
Charles B. Thompson Scholarship
Tift Alumnae Association Scholarship
Tift Bowen Scholarship
Tift Mae Burrell Scholarship
Tift Jayne Cheatham Scholarship
Tift Chiles Scholarship
Tift Collins Scholarship
Tift C.B. Day Scholarship
Tift Eunice Day Scholarship
Tift Dowdy Scholarship
Tift Ellington Scholarship
Tift Gardner-Madden Scholarship
Tift General Scholarship
Tift Holladay Scholarship
Tift D. Jordan Scholarship
Tift L. J. Lanier Scholarship
Tift Lawton Cater Scholarship
Tift Malone Scholarship
Tift Maynard Cater Scholarship
Tift McGraw Scholarship
Tift McManus Scholarship
Tift Opdyke Scholarship
Tift Reid-Hollingsworth Scholarship
Tift Scarborough Scholarship
Tift Elizabeth Stacey Scholarship
Tift E.W. Stone Scholarship
Tift Vinzent Unrestricted Scholarship
Tift Wardlow Scholarship
Tift H & J Williams Scholarship
Tift R.L. and Z.K. Williams Scholarship
Tift Womble Scholarship
Timberlake Scholarship
Art Turner Scholarship
U.S. Lancaster Fund
Unrestricted General Endowed Funds
Unrestricted General Scholarship
Vanderhoef Scholarship
Van Greene Scholarship
Mary Lou Vaughn Scholarship
Louise Verdery Scholarship
J.J. Walker Scholarship
Flora Walraven Scholarship
Nell Ward Scholarship
Graydon Ware Scholarship
Katherine C. Ware Scholarship
W.T. Wasden Scholarship
Thomas E. Watson Fund
Doyle E. Watson Baseball Scholarship
James and Mary Wesberry Scholarship
Westend Baptist Scholarship
James Whaley Scholarship
Lettie Pate Whitehead Scholarship
Frances Whitworth Scholarship
Mary Wilder Scholarship
A. L. and Peggy Williams Scholarship
H. Williams Scholarship
J. D. Williams Scholarship
Sarah Brown Withers Scholarship
Frances Woolfolk Scholarship
Jimmie Wren Scholarship
YKK Scholarship
Yoshida Scholarship
YMCA Scholarship
Zuber Scholarship

Georgia Baptist and Ministerial Assistance Funds

GEORGIA BAPTIST FOUNDATION SCHOLARSHIP FUND - This fund was established through the Capital Improvement and Endowment Program of the Georgia Baptist Convention to assist deserving Mercer students who are members of cooperating Georgia Baptist Churches. Awards are determined by the OSFP, based on demonstrated need and church membership. Separate application is required each year.

MINISTERIAL EDUCATION FUND OF THE GEORGIA BAPTIST CONVENTION - This fund provides financial assistance to students preparing for full-time church-related vocations. The amount of aid varies, depending upon the amount of funds allocated each year by the Georgia Baptist Convention and the number of such vocational applicants enrolled in Baptist colleges within the state. A separate application is required every year.

OTHER MINISTERIAL AID FUNDS - In addition to the above funds, Mercer offers other scholarship assistance to qualifying students planning a career in full-time Christian service. These funds, which have been provided through the very generous gifts of friends and alumni of the University, are listed below. Application for these funds is the same as for all other funds administered directly through the University (i.e., FAFSA and Mercer Application for Financial Aid are required). In addition, an annual letter from the student's pastor stating that the pastor is aware of the student's future career plans, and an annual letter of intent from the student are both required. All students receiving ministerial aid funds are required to successfully complete at least one course in Christianity annually; and they must meet each semester with the Dean of Chapel.

BAPTIST HERITAGE GRANTS - These grants are funded through the University and the GA Baptist Convention and are awarded to qualified students through the Office of University Admissions. For additional information, please contact the Office of University Admissions. Students must provide proof of church membership and must enroll full-time at Mercer University's Main Campus to receive this award.

MERCER ROTC ROOM AND BOARD SCHOLARSHIPS - These awards are made to recipients of Army ROTC tuition scholarships. Please see our web page for a full explanation of the ROTC Room and Board Scholarships.

Ministerial Aid Scholarships

Adams Scholarship
P.H. Anderson Scholarship
Tift I.W. Bowen Scholarship
Bertha M. Crawford Scholarship
Guy L. Cummings Scholarship
Edwards Scholarship
First Baptist Church of Columbus
M.E. Fountain Scholarship

Jessup Scholarship
L.D. Newton Scholarship
Light Memorial Scholarship
B.K. MacDougall Scholarship
John & Neva Mowell Scholarship
Newton Scholarship
Posey Scholarship
Pruitt Scholarship

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Federal and State Grants

FEDERAL PELL GRANT PROGRAM is available to eligible undergraduate students. The amount of a Pell Grant is determined on the basis of a student's financial resources and the resources of his or her family as reported on the FAFSA, along with the cost of education at the institution the student attends.

FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT PROGRAM (SEOG) is available to a limited number of students who demonstrate exceptional financial need. Federal Pell Grant recipients with a zero EFC are given priority for these funds. Funds are limited and a completed FAFSA and Mercer Application for Financial Aid are required for consideration.

GEORGIA TUITION EQUALIZATION GRANT PROGRAM - The State of Georgia has made available to qualified Georgia residents an annual tuition grant for attendance at approved private colleges in the State. To be eligible for this grant, the student (and parents of dependent students) must be a United States citizen who has resided in the State of Georgia for at least one full year prior to the date of registration for any particular semester. The student's academic load must meet the requirements specified by the GA Student Finance Authority (presently 12 hours per semester). To be considered for the grant, new students must complete an application (available on the OSFP website) and meet the eligibility requirements. The total aggregate Grant is determined by the State based on availability of funds.

HOPE SCHOLARSHIP - 1996 (and later) high school graduates who are named HOPE Scholars will receive a HOPE Scholarship of $3,000 for the 2004-2005 year as long as they meet State eligibility criteria and continue to have a cumulative "B" grade point average. Please note that the HOPE GPA of 3.0 or higher will not include "plus" grades (e.g., B+, C+). These grades will be treated as whole grades (B, C, etc.). Also, home-schooled students may receive HOPE funds retroactively for their freshman year if they attain a cumulative 3.0 HOPE grade point average after 30 attempted hours.

SCHOLARSHIP FOR ENGINEERING EDUCATION (SEE) - awarded to qualified Georgia residents who meet state eligibility requirements, have a 2.5 cumulative GPA (using same calculation policies as those for HOPE renewal), and are pursuing an undergraduate degree in any of the following programs accredited by the Engineering Accreditation Commission of the Accrediting Board for Engineering and Technology: Biomedical Engineering, Computer Engineering, Electrical Engineering, Environmental Engineering, Industrial Engineering, and Mechanical Engineering. This award consists of $1,750 per semester of full-time undergraduate study for an educational career maximum of $17,500. This award is considered a scholarship provided the School of Engineering graduate works one year in a field of engineering within the State of Georgia for each $3,500 awarded. Otherwise, this award converts to a cash-repayable loan. A separate
application is required every year. Applications are available in the OSFP. Renewal applications are available from the Scholarship Program at 1-800-546-HOPE. Please note: Funding is limited and is based on availability from the State. Awards are made on a first-come, first-served basis.

PROMISE TEACHER SCHOLARSHIP - is awarded to high-achieving students who aspire to be teachers in Georgia public schools. To be considered for the scholarship a student must meet the state's eligibility requirements, have a 3.0 cumulative GPA (see HOPE GPA calculation above), be academically classified as a junior, and be accepted for enrollment into an approved teacher education program in Georgia leading to initial certification. The maximum award for a full-time student is $3,000 for the junior year and $3,000 for the senior year. The award will be reduced if the student enrolls for less than 6 hours. The scholarship recipient is obligated to teach in a Georgia public school at the preschool, elementary, middle, or secondary level one academic year for each $1,500 awarded. If the student is unable to complete their program or meet the teaching obligation, this award converts to a cash-repayable loan. A separate application is required every year. Applications are available in the OSFP. Renewal applications are available from the Scholarship Program at 1-800-546-HOPE.

HOPE TEACHER SCHOLARSHIP is awarded to qualified Georgia residents who are seeking advanced education degrees in critical shortage fields of study. The student must meet the state's eligibility requirements and be admitted for regular admission into a graduate school and into an advanced degree teacher education program leading to certification in a critical shortage field. Students may receive $200 per semester hour. Maximum awards are based on the number of credit hours necessary to complete the program of study. The scholarship recipient is obligated to teach/serve in the critical shortage field of study in a Georgia public school at the preschool, elementary, middle, or secondary level one academic year for each $2,500 awarded, with a maximum of four years to repay. If the teaching/service obligation cannot be met, this award converts to a cash-repayable loan. A separate application is required every year. Applications are available in the OSFP. Renewal applications are available from the Scholarship Program at 1-800-546-HOPE.

Loans

FEDERAL PERKINS LOANS - Long-term loans are available through the Federal Perkins Loan Program. Although many students borrow funds to enable them to continue or complete their education, funds are not sufficient to assist every applicant. Exceptional need for financial assistance and availability of funds determine the applicant's award.

Qualified students may receive a maximum of $4,000 per year and an aggregate maximum of $20,000 for all years as an undergraduate student. Graduate students may borrow a maximum of $6,000 per year and an aggregate maximum of $40,000 (including undergraduate loans). For loans after October 1, 1992, the repayment period and interest do not begin to accrue until nine months after the student ends his studies. The loan bears simple interest at the rate of 5% per year and repayment of principal may generally be extended over a ten-year period. Borrowers who become full-time teachers in certain elementary schools or secondary schools or in certain fields of study may qualify for cancellation of Perkins loans.
Borrowers who serve as full-time staff members in the Head Start Program may also qualify for cancellation for each complete year of service. Deferment is allowed for as long as a borrower is enrolled on at least a halftime basis at an institution of higher learning. Deferment is also allowed for service in the Peace Corps or Vista.

WILLIAM D. FORD FEDERAL DIRECT SUBSIDIZED LOANS - The student must demonstrate financial need to be eligible, thus completion of a FAFSA is required. Laws which govern the student loan program permit students to borrow the following amounts: $2,625 per academic year for freshmen; $3,500 for sophomores; $5,500 for juniors & seniors and up to $8,500 per academic year for graduate & professional students. The aggregate limit that students may borrow is: $23,000 for undergraduate study and $65,500 for graduate study (including loans for undergraduate study).

The government pays the interest accruing on this loan while the student is in school and during the first six months following withdrawal or graduation from school. After this period, the student begins repayment on the loan. The interest rate for loans to new borrowers without any outstanding Federal Family Education Loan or Federal Direct Loan is established yearly, based on the 91-day Treasury Bill, with a maximum annual rate of 8.25 percent.

All first time borrowers at Mercer are required to have Entrance Counseling before funds can be disbursed. Notification of dates, times and locations of Entrance Counseling will be sent to the student in advance. This process may be completed electronically.

WILLIAM D. FORD FEDERAL DIRECT UNSUBSIDIZED LOANS - There are Unsubsidized Loans available to students who do not qualify for the above Federal Direct Subsidized Loans. These loans have the same terms and conditions as the Direct Subsidized Loans above except that the borrower is responsible for interest that accrues while he or she is in school. Students may pay the interest as it accumulates each semester or have it capitalized when the loan goes into repayment.

Independent undergraduate students and graduate or professional students are able to borrow additional amounts above the normal yearly limits for a subsidized or unsubsidized loan. Undergraduate freshmen and sophomores may be eligible to borrow an additional $4,000; undergraduate juniors and seniors may be eligible to borrow an additional $5,000; and graduate or professional students may be eligible to borrow an additional $10,000 per academic year. The aggregate limit that students may borrow is $23,000 for dependent undergraduate students, $46,000 for independent undergraduate students and $138,500 for graduate and professional students (including loans for undergraduate study).

Although unsubsidized loans are not awarded on the basis of need, students are required to complete a FAFSA. Further information regarding these loans is available from the OSFP.

WILLIAM D. FORD FEDERAL DIRECT PLUS LOANS - These loans are available to creditworthy parents of dependent undergraduate students. To apply, a separate application must be completed every year by the parent or legal guardian. The yearly limit a parent can borrow is equal to the cost of attendance minus any other financial aid that the student is receiving. The interest rate is variable, based on the 52-week Treasury Bill with a maximum interest rate of 9%. Interest begins to accumulate at the time the first disbursement is made, and repayment begins within 60 days after the final loan disbursement each year.
If the loan is denied due to an adverse credit history, the parent will be notified by the Direct Loan Servicing Center. The parent may pursue the PLUS Loan further by securing a creditworthy endorser (cosigner). The student is not eligible to endorse a PLUS Loan. If the parent does not wish to pursue the PLUS Loan further, the student may be eligible to receive a Federal Direct Unsubsidized Loan. Further information is available from the OSFP.

OTHER UNIVERSITY LOAN FUNDS - There are limited loan funds administered through the University. These funds are awarded on a restricted basis. Application for these funds is the same as for all other funds administered directly through the University. A listing of these loan funds is provided below.

- Agnes M. and Oscar Lee Bridges Fund
- Chaffin-Dickey Memorial Student Loan Fund
- Aquilla J. Cheney Fund
- Coachman Brothers Trust Fund
- George Boyce Connell Memorial Fund
- John Cleveland Dukes Fund
- Mr. and Mrs. Edgar O. Hawkins Student Loan Fund
- McWhorter Fund
- Oliver S. Porter Loan Fund
- William H. Prior Fund
- Joseph M. Terrell Fund
- J. Ovid Stewart Memorial Loan Fund
- Mary Wilder Emergency Loan Fund

PRIVATE ALTERNATIVE STUDENT LOANS - There are a number of outside private alternative student loans available to students who need assistance beyond University and Federal loan resources. Please contact the OSFP for further information and for applications of recommended private alternative student loans. Also, please visit our web site at www.mercer.edu/finaid for links to recommended alternative loan lenders.

Student Employment

Federal Work-Study Program

The Federal Work-Study Program is a program designed to provide qualified students the chance to pay part of their educational expenses by working a part-time job on campus or in a community service job off-campus. In order to be employed under this program, the student must: (1) be enrolled; (2) have all required forms received in the OSFP by April 1; (3) show evidence of financial need through the FAFSA; and (4) maintain satisfactory academic progress while employed under this program.

All student employment job assignments are coordinated through the Office of University Advancement. Federal Work-Study recipients will be contacted during the preceding summer regarding their employment position.

Other On-Campus Part-Time Employment

All on-campus employment must be authorized by University Advancement before the student begins working. Students who are awarded Federal Work-Study are given first priority for on-campus employment. A Student Work Authorization Form is required every year for every job a student worker is
assigned. Students must also complete an I-9 Form and Tax Withholding Forms **within three days of employment**. All student worker employment forms must be submitted to the Career Services Office. Students whose files are selected for verification must complete the verification process before they can begin working on campus.

**Mercer Engineering Research Center**

Engineering and other technically oriented students are encouraged to seek part-time employment at the Mercer Engineering Research Center (MERC). MERC is the research and development arm of the School of Engineering and conducts fundamental and applied research and development in the physical, life, and mathematical sciences. It is located about 17 miles south of the Macon campus in Warner Robins, Georgia. Because of the classified nature of many of the projects supported by the U.S. Government, U.S. Citizenship may be required of student workers. Applications for employment can be obtained at MERC.
Academic Information

The undergraduate curriculum is composed of two parts. The General Education Program is broad in scope, requiring study in several areas. It affords an introduction to some of the major areas of human knowledge and endeavor, and lays the foundation for continued study and for the student's contribution to society. The Upper Division curriculum calls for more specialized study in a major, a concentration, or a specialization.

General Education

The undergraduate schools and colleges of Mercer University are clearly distinct. The autonomy and traditions of each is respected. Although each school is unique, all have identified goals, objectives, and outcomes that they share and that are reflective of a Mercer education. The objectives and specific outcomes, related to each major goal, do not constitute an exhaustive list but rather a summary of the central, intersecting objectives and outcomes. Mercer University is dedicated to the ideal of educating the whole person and providing a foundation that can be described by the Greek term “Paideia.” Paideia is consistent with the founding vision of Jesse Mercer as he sought to encourage learning and culture for both clergy and laity. Teaching, character development, service and leadership, classical education, and the nurturing of a prevailing culture are all instrumental. Mercer’s aim is to prepare all students to contribute to society through a sharing of their knowledge, skills, and character.

Through the general education curriculum Mercer University graduates will be able to:

A. Reason effectively
B. Demonstrate broad and deep knowledge
C. Demonstrate habits of free inquiry
D. Demonstrate an understanding of themselves in light of the values and traditions upon which the University was founded.

From these four goals flow the intended educational outcomes for general education at Mercer University:

A.
1. Communicate clearly, responsibly, and with integrity in written and oral forms
2. Master at least the basic principles of mathematical and scientific reasoning
3. Identify, access, and evaluate information and materials as needed for personal, academic, and professional purposes

B.
4. Acquire foundational knowledge important to becoming an informed person and/or for the major
5. Relate theory, principles, and content from one discipline to another
6. Demonstrate familiarity with cultures and traditions other than one’s own
C.
7. Work as part of a team/group, to learn and teach cooperatively, to develop an appreciation of individual differences, and to assess one’s own and other’s roles in a working group
8. Consider viewpoints other than one’s own, including viewpoints associated with other cultures and traditions
9. Commit to live as an engaged and informed citizen
D.
10. Reflect on one’s life and learning experience
11. Develop a respect for intellectual and religious freedom

Degree Programs

The University offers the following degree programs:

**College of Liberal Arts**
- Bachelor of Arts
- Bachelor of Science
- Bachelor of Music Education
- Bachelor of Music in Performance
- Bachelor of Music in Sacred Music
- Bachelor of Science in Medicine or Bachelor of Science in Dentistry
- Bachelor of Science in Medical Technology

**Stetson School of Business and Economics**
- Bachelor of Business Administration
- Master of Business Administration
- Executive Master of Business Administration (Atlanta only)

**School of Engineering**
- Bachelor of Science
- Bachelor of Science in Engineering
- Master of Science in Engineering
- Master of Science

**Tift College of Education**
- Bachelor of Science in Education
- Master of Education
- Specialist in Education

**School of Medicine**
- Master of Family Therapy
- Master of Family Services
- Master of Public Health

For specific information on degrees offered and degree requirements, see the individual college listings.
Student Classification

Undergraduate student classification is based on the satisfactory completion of a minimum number of semester hours of credit as follows:

- Freshman .................................................. 0-29 hours
- Sophomore .................................................. 30-59 hours
- Junior ....................................................... 60-89 hours
- Senior ....................................................... 90 hours and over

Units of Credit

The unit of credit is the semester hour. Generally, a credit represents one hour of class work per week for one semester, or its equivalent, in other forms of instruction.

Course Numbers

Undergraduate Level Courses:

- 001-099: Remedial (not applicable to degree requirements or graduation).
- 100-199: Courses generally considered introductory in nature including those carrying no prerequisites and those intended primarily for freshman-level students.
- 200-399: Intermediate-level courses designed for students at the sophomore, junior, or senior levels. These are courses carrying prerequisites or requiring a level of sophistication not usually attained until after a student’s first year of college.
- 400-499: Advanced-level courses generally requiring senior status including, but not limited to, such courses as seminars, senior independent or directed study, research, colloquia, etc.

Courses numbered below 300 are lower division courses. Courses numbered 300-499 are upper division courses.

Graduate Level Courses:

College of Liberal Arts

- 600-699: Graduate level offerings of courses numbered 300-399
- 700-799: Graduate level offerings of courses numbered 400-499

Tift College of Education

- 500-599: Post-baccalaureate initial certification only; non-degree credit
- 600-699: Master of Education level classes
- 700-799: Education Specialist level classes

Stetson School of Business and Economics

- 600-699: Graduate courses designed for graduate students only

School of Engineering

- 500-599: First level graduate courses; may also be taken by qualified undergraduates
- 600-699: Advanced-level graduate offerings
Grading System and Quality Points

Cumulative grade point averages are computed on a quality point system. The interpretation of the letter grades and their quality point values is as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Interpretation</th>
<th>Quality Points Per Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>4.0</td>
</tr>
<tr>
<td>B+</td>
<td>Good</td>
<td>3.5</td>
</tr>
<tr>
<td>B</td>
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<td>3.0</td>
</tr>
<tr>
<td>C+</td>
<td>Average</td>
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</tr>
<tr>
<td>C</td>
<td>Average</td>
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</tr>
<tr>
<td>D</td>
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<tr>
<td>F</td>
<td>Failure</td>
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</tr>
<tr>
<td>S</td>
<td>Satisfactory</td>
<td>*</td>
</tr>
<tr>
<td>U</td>
<td>Unsatisfactory</td>
<td>*</td>
</tr>
<tr>
<td>ABX</td>
<td>Absent from final examination (excused)</td>
<td>*</td>
</tr>
<tr>
<td>IC</td>
<td>Incomplete in some requirement other than the final examination (excused)</td>
<td>*</td>
</tr>
<tr>
<td>IP</td>
<td>In Progress</td>
<td>*</td>
</tr>
<tr>
<td>AU</td>
<td>Audit</td>
<td>*</td>
</tr>
<tr>
<td>W</td>
<td>Withdrawal</td>
<td>*</td>
</tr>
<tr>
<td>Z</td>
<td>Grade Not Reported</td>
<td>*</td>
</tr>
</tbody>
</table>

* These grades are not calculated in the GPA.

Satisfactory/Unsatisfactory (SU) Grade

Some courses are offered only on the basis of Satisfactory/Unsatisfactory grading; this grading pattern is stated in course descriptions. Students in the College of Liberal Arts, Tift College of Education, and the Stetson School of Business and Economics may elect the S/U option in certain courses. For policies on this option, see the section of each of these schools.

Hours earned with a satisfactory grade will be added to the total required for graduation, but will not affect the cumulative grade point average; an unsatisfactory grade will carry no hours earned and will result in no penalty to the cumulative grade point average.

The satisfactory grade requires a standard of achievement equivalent to that usually awarded the grade of C or better. The purpose of this grade option is to give students the opportunity to expand their knowledge and to satisfy interests outside of their fields of chosen concentration without the risk of placing themselves in academic jeopardy.

Students who elect the S/U option must officially declare the decision no later than the end of the drop/add period, and they cannot change it during the term. Courses originally taken on a letter grade basis may not be repeated on a S/U basis.

ABX and Incomplete

The grade of ABX denotes that the student was absent from the regular final examination because of sickness or another valid and compelling reason satisfactory to the instructor. A special examination to take the place of the one missed must be taken no later than mid term of the next semester or the ABX grade will be changed to the grade of “F”.
The grade of IC (incomplete) means the student is passing the class but some relatively small part of the semester’s work remains incomplete because of illness or another valid and compelling reason satisfactory to the instructor. All course work in an undergraduate class must be completed no later than mid term of following semester or the IC grade will be changed to a grade of “F.”

All ABX and IC grades must be removed before degrees will be awarded.

In Progress (IP)

The IP (In Progress) grade is assigned only in courses which require completion of the assigned work beyond the end of the semester. An IP grade may not be given in place of a grade of incomplete (IC). To qualify for an IP grade, courses must be approved by the appropriate dean’s office. All grades of IP will be converted to F (failure) if the work is not completed in one calendar year from the time the IP grade is assigned.

Grade Appeals

If a student disagrees with an assigned course grade the student is required to initiate an appeal with the appropriate faculty member no later than 30 days from the completion of the term in which the course was offered. Appeals received after the 30 day period will not be honored.

Academic Advising

Academic advising is integral to a student’s educational experience at Mercer University. Academic advisors can assist students in various academic areas and acquaint students with a wide array of campus resources. Students meet with their advisors throughout the year to plan their academic programs and evaluate their progress. Advisors are critical in helping a student make certain that all educational requirements are met. Thus, a student is given the opportunity to meet with his or her advisor each semester prior to registration to review the student’s choice of courses. Additionally, a student is encouraged to confer with the advisor when a change to his or her schedule becomes necessary (e.g. during drop/add or when withdrawing from a course).

Most first year students are advised by the instructor of their UNV or FYS-X course. Spending time in class with the student allows the advisor to better assess the student’s interests and goals and to generally get to know the student better. Transfer students are assigned advisors during their first semester based on their academic area of interest. Upon declaring a major or changing one’s major a student will receive a new advisor in that academic area.

Academic advising is coordinated by the Office of First Year Programs and Academic Advising. Staff members are readily available to provide academic assistance to students. Students experiencing academic difficulties or considering withdrawal from the university are encouraged to meet with a representative of the office. Most academic forms may also be obtained in this office, located on the first floor of Penfield Hall. Students may also contact the office at (478) 301-2078.

Registration

Registration is required for admission to any class. The University requires all students to have a clear financial account, which includes Library, Campus
Housing and immunization records, before registering. Students are required to meet with their advisors prior to registration. In addition to the advisor's approval/signature, students should obtain any other signatures/permissions required for special circumstances, such as a dean's for overloads, and the instructor's for independent study, internships, etc. Students should consult the Bulletin and the current schedule of classes for any prerequisites and special requirements for specific course registration and instructions for registration procedures.

There are three registration periods each semester. Following mid-term during each semester, a one-to two-week period of priority registration occurs for currently enrolled students. An earliest registration time is assigned to each student based on total hours earned as of the end of the preceding semester. Shortly following the conclusion of priority registration, open registration begins during which readmitted and new students may also register. Open registration ends when the next semester begins. When classes begin, late registration and drop/add continues for the first five (5) days of the term.

Students are responsible for their registration and for the corresponding fees and charged incurred and must notify the Office of the Registrar in writing before classes begin should they be unable to attend any or all classes for which they are registered. A continuous registration status is expected. Students who fail to register for the subsequent terms (excluding summer) and who fail to notify the Registrar in writing of their intention not to return, forfeit their registration and housing deposits.

**Repeating Courses**

A student may repeat a course in which he or she earned grades of “D”, “F”, or “U” in order to earn credit for the course or improve the grade. No course may be taken more than twice in the undergraduate program. A maximum of four courses may be repeated. Students who are repeating courses in an attempt to meet minimum graduation requirements for grade point averages in overall major, minor, and/or school or college GPA, or who have extenuating circumstances, must have the appropriate dean’s permission to exceed the four course limit.

Enrollment documents for such courses will carry “Repeat” added to the course, and this notation will appear also on the class roll and permanent record. Hours of credit will be granted only once. The grade recorded in the final attempt will prevail. The final grade will be used in computing the cumulative grade point average whether it is higher or lower than any previous grade(s). The previous grade(s) will not be deleted from the permanent record. If the original course is no longer a part of the curriculum, an equivalent course may be substituted on the authority of the appropriate dean.

When a course is repeated, the student is subject to the Bulletin restriction on the total number of credit hours that may be taken in a single term. With a dean’s approval, a student who has a “C” average or above may, in extraordinary circumstances, be allowed to take the “repeat” as an overload. A course may be repeated on an audit basis if a student chooses to do so. A withdrawal grade or an audit in the repeat of a course does not serve to delete the computation of the previous grade(s).

Courses originally taken on a letter grade basis may not be repeated on a “Satisfactory- Unsatisfactory” basis.
Courses taken at another institution will not be accepted as Mercer “repeat” credit.

**Attendance on First Class Day**

The demand for registration in many undergraduate courses exceeds the enrollment capacity with the result that these classes often “close” during the priority and open registration periods. Some courses carry “Wait Lists” for students interested in registering for these courses should space become available. It is mandatory that students attend classes on the first class day of the semester. Students who are absent on the first class day who have not made prior arrangements with the instructor **MAY** be disenrolled from the course in order to allow registration of students on wait lists.

**Academic Loads**

An academic load of 12 semester hours qualifies a student for full-time status, which is necessary to fully qualify for scholarship and financial aid. First year students will be enrolled in no more than 16 credit hours during the first term. The number of credit hours for first year students during the first semester will range from 12 to 16. After the first term, 15 to 16 hours of credit each semester or 30 to 32 credit hours per year is typical and can allow students to complete specific degrees at the end of four academic years.

After the first semester in residence, students with a cumulative grade point average of B (3.0) or higher are permitted to take course overloads which is the maximum load of 20 hours of credit. The appropriate dean must approve course overloads, and the cumulative average of B must be maintained to retain the privilege in succeeding terms. A student whose cumulative grade point average is C (2.0) or higher may have the privilege to take a course overload during one term of the senior year to make up a deficiency in hours.

(For course load information for graduate students, see the Graduate Studies section.)

**Schedule Changes, Course Withdrawal and Term Withdrawal**

**Schedule Changes**

Course changes (dropping and/or adding) may be made during the schedule change period as published in the schedule of classes. Students wishing to change courses must consult their major professor or advisor regarding the contemplated change. The written permission of both professors concerned, the faculty advisor, and of the Registrar may be required.

**Course Withdrawal**

A student may withdraw from a course up to the end of the ninth week of the semester, receiving the grade of “W”; the withdrawal must be formally declared in the Office of the Registrar by the announced deadline. A student who withdraws after the deadline will receive an “F”, except that in extreme personal circumstances and with appropriate documentation a “W” may be assigned. Please note that financial aid could be reduced upon withdrawal from a course. Contact the Financial Aid Office before you officially withdraw from a course.
Term Withdrawal

Term withdrawal from the University occurs when the student officially withdraws from all enrolled courses. A student may withdraw up to the end of the ninth week of the semester, receiving the grade of “W”. The student must complete a Term Withdrawal Form and submit it to the Office of the Registrar by the announced deadline. A student withdrawing after the deadline will receive an “F,” except that in extreme personal circumstances and with appropriate documentation, a “W” may be awarded.

Students who do not formally change their schedules, withdraw from courses, or totally withdraw from the University may be assigned grades of “F”. Non-attendance does not constitute official schedule change, withdrawal, or term withdrawal.

Refund Policy information is found elsewhere in this Bulletin.

Final Examinations

Examinations are administered at scheduled times at the end of each semester. Students must report to examinations at the time scheduled. In some cases a student may have three final exams scheduled on the same day. In this case students should contact the associate dean of their college/school as soon as possible to request arrangements to take one of the exams on another day. Any changes in the examination schedule may be authorized only by the appropriate associate dean. Permission for a make-up examination due to illness or other emergency may be permitted at the discretion of the instructor.

Advance Placement and Credit-by-Examination

Students who take Advanced Placement (AP) courses at the high school level and complete the examination administrated by the Educational Testing Service are awarded credit based on the score and course equivalent/s as determined by the appropriate Mercer academic department for each exam. No credit may be awarded for scores of 1 or 2. Applicants should request an official score report from The College Board be sent to the Office of the Registrar.

Credit is also awarded for examinations administered by the College Level Examination Program (CLEP). Credit is awarded for scores at the 50th percentile or higher on the general and/or subject exams.

CLEP credit will not be awarded if a student has already taken the equivalent college-level course.

The International Baccalaureate Program is an internationally recognized curriculum that is taught at numerous high schools in the United States, Canada, and other countries. Mercer awards credit for scores of 5, 6, or 7 on the Higher Level examinations of the International Baccalaureate Program. Score reports should be included with the student’s final high school transcripts or provided by the International Baccalaureate Office.

In addition to CLEP, Advanced Placement, and International Baccalaureate exams, students may earn credit toward their degrees through the credit-by-examination procedures established in each of the colleges and schools of the University. These credits are awarded upon completion of institutionally developed and administered examinations. Each college/school determines the courses that may be challenged and establishes the criteria for awarding credit. A student may receive no more than 32 hours of credit from all extra-course examinations includ-
ing Advanced Placement, CLEP, the International Baccalaureate Program, and credit by examination.

Credits earned through the University’s credit-by-examination process will be posted to the permanent academic record in the transfer credit area. This credit will carry an annotation that identifies it as credit-by-examination. It will not carry quality points or a grade and therefore will not affect the cumulative grade point average.

To be eligible to sit for a departmental exam a student must be actively enrolled in the semester in which the exam is to be taken. Appropriate fees must be paid prior to the exam and are non-refundable. Application forms are available in the Office of the Registrar.

Class Auditing Regulations

Auditors are assumed to be seriously interested in the courses for which they enroll. An official entry of audit on the permanent academic record shall be made only if 75 percent of the classes are attended.

Auditors of studio courses in art and music will pay the same fees as those taking the courses for credit. Applied music courses and physical education activity courses may not be audited. Laboratory science and computer science courses may be audited, but the auditor may audit only the lecture sessions.

Full-time students may audit, with approval of the Instructor, any courses for which they are eligible. There is no special audit fee for full-time students. Courses audited may not be established for credit-by-examination, nor may audit courses be changed to credit courses after the last day for course schedule changes (drop/add). Auditors submit no daily work, take no examinations, and receive no credit for courses audited. They may participate in the class discussion only with the permission of the instructor.

A part-time student may audit courses with approval. The auditing fee for such auditors is listed in the Financial Information section of this Bulletin.

Class Attendance

While the University encourages independent study on the part of students, regular class attendance is expected in most courses. No attendance regulation is prescribed by the University; faculty announce their expectations about attendance in course syllabi.

Student Removal from Classes

Disruptive or dangerous behaviors can result in students being removed from classroom participation. In such cases, the student will be referred to the University Judicial System.

Transient Status, Mercer Undergraduate Students

An undergraduate student who wishes to take academic courses elsewhere as a transient student and apply those credits toward the Mercer degree must obtain written approval in advance from the student advisor and the Registrar’s Office and must have been enrolled at Mercer and attended classes at least one semester. Transient Request forms for this program are available in the Registrar’s Office. Failure to obtain written approval in advance may preclude acceptance of the transfer credit. A student normally will not be permitted to attend another institution as a transient student for more than two consecutive academic terms. No correspondence work will be accepted for credit toward a degree. Mercer University
does accept courses from the Independent Study Programs of the University of Georgia for transfer credit; the maximum credit accepted is 9 semester hours.

A student must be in good academic standing to be approved to take courses as a transient student. Ordinarily, the last 32 semester hours of degree work must be earned in residence at Mercer University. At least 12 semester hours of upper division work in a major, concentration, or specialization and 6 semester hours of upper division work in a minor, if elected, must be done in residence.

Courses that are equivalent to courses offered at Mercer will transfer as long as the institution is regionally accreditation and the student earns grades of C or better. Course outlines (syllabi) and catalog information may be required before approval for transient status is granted.

Courses taken as a transient student will in no way affect the Mercer cumulative grade point average; however, all transfer credit attempted will be considered when determining University honors at graduation.

Transient credit from two-year colleges is limited as part of transfer credit (refer to section on transfer credit) to 64 semester hours. If 64 hours have previously been transferred from two-year colleges, transient credit will displace course hours that are not needed for program completion.

It is the student’s responsibility to request that a transcript be sent to the Registrar’s Office at Mercer University. No credit will be awarded until an official transcript is received from the institution attended.

**Academic Warning, Probation and Suspension**

The minimum standard for satisfactory academic achievement is a grade point average of 2.0 for undergraduate students. Anything below this minimum puts the student’s academic career in jeopardy. Within these guidelines a school may have additional procedures due to special programs.

1. Any full-time student who fails to pass a minimum of three hours in any term will be subject to academic suspension. Additionally, students who have demonstrated an inability to complete the special academic requirements of their chosen program of study may be suspended.

2. Because a minimum 2.0 cumulative grade point average is required for the awarding of any degree, a student whose average is below the minimum is deemed to be making unsatisfactory academic progress.

A warning shall be issued to students whose cumulative average is below 2.0 unless the average is below those listed in the following table, in which case probation is incurred immediately. Once on probation, students who are allowed to enroll (that is, those not suspended, as explained below) will remain on probation until the required minimum is met. Students who fail to fulfill the conditions of their probationary status may be subject to suspension. Students below 2.0 but at or above the averages listed in the table will continue to be warned.

<table>
<thead>
<tr>
<th>Total Hours Earned</th>
<th>Minimum Cumulative Grade Point Average</th>
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<tbody>
<tr>
<td>0–16</td>
<td>1.40</td>
</tr>
<tr>
<td>17–32</td>
<td>1.70</td>
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<td>49–63</td>
<td>1.90</td>
</tr>
<tr>
<td>64–128</td>
<td>2.00</td>
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</table>
For new transfer students completing their first term at Mercer, only hours earned at Mercer that term will be considered for determining academic standing. In subsequent terms, total hours earned will include transfer credit and hours earned at Mercer. In all cases, only Mercer hours are used to calculate the cumulative grade point average.

3. Students who fail to meet the required minimum cumulative grade point average on three consecutive occasions (including Summer term) will be subject to suspension for one term.

4. Students who believe that suspension has resulted from extenuating circumstances may appeal the decision to the appropriate dean or designated committee of the school or college.

5. Any student who has been suspended for academic reasons will be readmitted only under provisions approved by the appropriate dean. A student who fails to meet the provisions of readmission or after readmission fails to meet the required minimum cumulative grade point average may be suspended indefinitely.

Eligibility for Participation in Activities

Except where required as a part of class work in a course, a student on academic probation is not eligible to participate in any extra-curricular activities that represent Mercer University. Representative activities include: intercollegiate athletics; student government; student organizations; staff work on campus publications; debate; musical performances; dramatics; cheerleading; theatre stage work and acting.

Recognition of Scholarship

Honors Program

The Honors Program at Mercer University provides an opportunity for academically outstanding students to develop their talents and potential to the fullest, through intellectually enriched and stimulating learning experiences. Qualified students may be admitted to the Honors Program in the College of Liberal Arts, the Stetson School of Business and Economics, the School of Engineering, and the Tift College of Education (Secondary Education certification). Although honors students will complete the same number of credit hours as other students, they are exposed to the rigors and challenges of a combination of honors courses, out of classroom activities, independent study, and other honors opportunities. Specific requirements appear in other sections of this Bulletin and inquiries should be made to the respective dean.

President’s List

The President’s List will include all undergraduate students who achieve a 4.0 semester GPA in a regular program of 12 or more hours. At least 12 hours must be taken on a letter graded basis and a grade of S must be earned in all S-U courses taken above this minimum. This distinction is noted on the official academic transcript. Students will not be eligible for the President’s List by virtue of repeated courses. A student who has been found responsible for an Honor Code violation is not eligible for the President’s Lists.
Deans' Lists

Deans’ Lists shall include students who complete 12 semester hours or more and achieve a minimum term grade point average of 3.55; all work must be letter graded with no grade below a C. Full-time or part-time students who earn a minimum term grade point average of 3.66 will also be included if they complete at least 8 hours on a letter graded basis and earn no grade below a Satisfactory or C. Part-time students achieve Dean’s List status if they complete 8 to 11 hours that are letter graded with no grade below C and attain a 3.66 grade point average for the term. Students will not be eligible for the Dean’s List by virtue of repeated courses. A student who has been found responsible for an Honor Code violation is not eligible for the Dean’s Lists.

Graduation with Honors

Candidates for Bachelor’s degrees with a grade-point average of 3.50 will receive their degrees cum laude; those with an average of 3.70, magna cum laude. To be eligible for honors, a student must have earned a minimum of 32 semester hours, and at least a 3.50 GPA at Mercer. In determining the average of students with any transfer credit, the total average and the Mercer average separately will be evaluated, and the student will be given the standing of the lower of these two averages. All college work attempted, including D’s and F’s for which transfer credit has not been awarded, will be included in the calculation of the cumulative grade point average for graduation with honors.

A student who by virtue of a grade or grades made in repeated work achieves an overall grade point average that would otherwise qualify him or her for graduation with honors will not be considered eligible to receive honors.

A student who has been found responsible for an Honor Code violation is not eligible to graduate with honors.

Departmental Honors

Departmental Honors may be conferred independently of all other distinctions. They are designed to recognize students who have distinguished themselves in their major departments; they will not be announced at graduation, but a notation of departmental honors will be entered on the student’s permanent record. The specific requirements for each department are listed in this Bulletin with the course requirements for the major, and details may be obtained from department chairs.

Undergraduate Degree Requirements

No undergraduate student will be graduated who has not completed the equivalent of two semesters (at least 32 hours of credit) in residence at Mercer. Ordinarily, the last year of academic work (32 semester hours) must be done in residence. At least 12 hours of upper division work in a major, concentration, or specialization and 6 hours of upper division work in a minor, if elected, must be done in residence.

A Bachelor’s degree requires a minimum of 120 semester hours of academic courses numbered 100 and above. Many programs of study will require more. Refer to the specific major requirements for the credit hours needed to complete a particular program. Courses numbered below 100 do not count toward the fulfillment of the hours required for graduation. Hours earned in any school or college of the University may be used to satisfy the requirements of any undergrad-
uate degree. Students must, however, fulfill all degree requirements of the particular degree of choice.

A cumulative grade point average of 2.0 or higher is required for graduation. Students must also have at least a 2.0 average in the minimum requirements for a major, concentration, specialization, or minor. Individual schools require higher than 2.0 averages for admission to some programs and to meet graduation requirements in certain courses. Students should see the specific requirements of their program of study in this Bulletin.

Students who wish to complete a major in a different degree program must fulfill the specific course requirements for the major plus additional requirements that may be arranged on an individual basis. The student should consult an academic advisor in the major. The advisor and/or the department chair will determine what course work other than that usually prescribed for the major, if any, will be required. For example, a student seeking a degree in engineering or business may earn a second major in the College of Liberal Arts by completing the specific courses listed for the second major and other work that may be deemed appropriate by the second major advisor and department chair.

Students not in the Stetson School of Business and Economics but seeking the Managed Academic Path to Success (MAPS) program in business may earn that MAP only by completing all of the requirements for a second degree, the BBA degree, including the general education requirements.

Minors may also be earned across school or college lines under the same provisions as those stated above for majors. The Stetson School of Business and Economics offer minors for non-business students in Accounting, Business Administration and Economics. Majors and/or minors that are earned across school or college lines will be noted on permanent records but not on diplomas.

Students who wish to have two Bachelor’s Degrees conferred simultaneously must complete the general education requirements of both programs, both the usual and special requirements of a major, concentration, or specialization in each program, and at least 18 hours more than the minimum required to earn a Bachelor’s Degree.

Individuals who seek a second Bachelor’s Degree after graduation must complete the general education requirements appropriate to the degree being sought, meet the residence requirements of a major, concentration, or specialization, and spend a minimum of two semesters (at least 32 hours) in residence at Mercer.

Application for Graduation

All students must apply for graduation. It is the student’s responsibility to be aware of all department, School/College, and University degree requirements as published in the Bulletin, and to ensure that such requirements have been met or that appropriate waivers have been secured and filed in the Office of the Registrar.

The application must be filed with the Registrar’s Office at least one term prior to the expected date of graduation.

Participation in Commencement Ceremonies

Only those students who should complete all requirements for graduation by the end of spring semester may participate in the commencement ceremony. This requirement may include students to whom degrees have already been awarded during the current academic year.
In extraordinary situations a student who requires no more than 12 credit hours for graduation and plans to complete the degree requirements during the summer session may petition the Associate Provost of Undergraduate Studies for special consideration.

Graduate students may participate according to the policies of their individual school or college. (See Graduate Studies section). Participation in the graduation ceremony does not necessarily represent conferral of the degree. Degrees are awarded at the end of the terms in which all requirements are met. Students may participate in only one ceremony for each degree sought.

Awarding of Degrees

The University awards degrees at the end of each semester. Diplomas will be released to students and transcripts annotated upon the certification of completion of all degree requirements. A commencement ceremony is held in May of each year. (Please see “Participation in Commencement Ceremony” above).

Student Records (Transcripts)

A complete copy of the student’s academic record (transcript) may be obtained by the student presenting a written request and $2.00 per request to the Office of the Registrar or Mercer One. Telephone and e-mail requests will not be honored. Transcripts include the student's entire record academic history at Mercer University. It includes all undergraduate and graduate record information.

Academic records accumulated in the professional schools (i.e., Law, Medicine, and Pharmacy) must be requested separately from the appropriate school.

Student Rights Pertaining To Educational Records

The Family Educational Rights and Privacy Act (FERPA) affords students at Mercer University certain rights with respect to their education records. These rights include:

1. The right to inspect and review a student’s education records within 45 days of the day the Office of the Registrar receives a request for access.

   The student should submit to the Registrar a written request that identifies the record/s the student wishes to inspect. The Registrar will make arrangements for access and notify the student of the time and place where the records may be inspected. If the Registrar does not maintain the records, the student shall be advised of the correct official at the University to whom the request should be addressed.

2. The right to request the amendment of the student’s education records that the student believes in inaccurate.

   The student may ask the University to amend a record that he/she believes is inaccurate. The student should write the Registrar, clearly identify the part of the record he/she wants changed, and specify why it is inaccurate. If the University decides not to amend the record as requested be the student, the Registrar or other appropriate official, if the record is maintained by another office, will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
3. The right to consent to disclosures of personally identifiable information con-
tained in the student’s education record, 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 per-
son employed by the University in an administrative, supervisory, academic or
research, or support staff position (including law enforcement personnel and
health staff); a person or company with whom the University has contracted
(such as a attorney, auditor, or collection agent); a person serving on the
Board of Trustees; or a student serving on an official committee, such as a dis-
ciplinary or grievance committee, or assisting another school official in per-
forming his or her tasks.

A school official has a “legitimate educational interest” if the official needs to
review an education record in order to fulfill his or her professional responsi-
bility.

4. The right of a currently enrolled student to request that his/her “directory infor-
mation” not be released by Mercer University. The University at its discretion
and without the written consent of the student may release “directory informa-
tion” which includes the following items: student name, address, telephone
number, date and place of birth, academic program, dates of attendance,
degrees and honors received, most recent previous institution attended and
participation in officially recognized activities and sports.

A student request for non-disclosure of the above items must be filed with the
Office of the Registrar.

5. The right to file a complaint with the U.S. Department of Education concern-
ing alleged failures by Mercer University to comply with the requirements of
FERPA. The name and address of the office that administers FERPA are:
Family Policy Compliance Office, U.S. Department of Education, 400
Maryland Avenue, SW, Washington, DC 20202-4605.

**U.S. Army ROTC Program**

The mission of the ROTC Program, and U.S. Army Cadet Command, is to
commission the future officer leadership of the U.S. Army. Students who qualify
and successfully complete the ROTC Program will be commissioned as 2nd
Lieutenants in the U.S. Army, Army National Guard, or the U.S. Army Reserves.
Students incur no obligation by taking military science classes. Any Mercer stu-
dent may take an ROTC class, but only qualified and selected students will earn
commissioning credit. The Senior ROTC Program produces officers of character,
each with a breadth of perspective formed by the variety of experiences inherent
in college life. Cadets will demonstrate a capacity for scholastic, athletic, and lead-
ership excellence. Upon commissioning, Lieutenants will be confident of their abil-
ity to be competent Army leaders and committed to serving in the Army.

The Army ROTC Program is a four year program. The first two years comprise
the basic course. Students must complete the basic course prior to enrollment in
the advanced course of ROTC. Students may receive credit for the basic course
by completing Army Basic Training or the equivalent in the other Services, com-
pleting 2 years at a service academy, completion of 2 years of Navy or Air Force
ROTC Training, or completion of 3 or 4 years of JROTC in high school. Students
may also earn basic course credit by successfully completing the 35 day Leader's Training Course at Fort Knox, Kentucky in the summer.

The ROTC Advanced Course consists of the last two years of instruction in college. Students in the advanced course are typically juniors/seniors or students in the last two years of graduate study. Students must meet the following requirements for enrollment in ROTC courses:

1. Full-time student earning a baccalaureate or advanced degree.
2. At least 17 years old and not older than 30 years old at graduation.
3. Must be of good moral character, as normally substantiated by no record of disciplinary problems or civil convictions.
4. Citizen of the United States
5. No more than three dependents, cannot be sole parent
6. Medically fit

Students may apply for a wide variety of Army ROTC scholarships. Incoming freshmen may apply online for a 4 year ROTC scholarship at armyrotc.com and must list Mercer University (FICE Code 001580) as one of their schools of choice. Students may also apply for scholarships through the start of their junior year or the beginning of second to last year in a graduate program. Students may also apply for a Dedicated ARNG 2 year scholarship or a Army Reserve 2 year scholarship if they have basic course completion credit mentioned earlier. Students must understand that scholarships will be awarded, based upon availability, to the most qualified students under the scholar/leader/athlete model who have expressed a desire to serve as a commissioned officer in the U.S. Army.

Army ROTC scholarship benefits includes:

1. $17,000 in annual tuition
2. $600 per year book allowance to help offset the cost of books
3. Monthly cadet pay, stipend, of $250 (freshmen), $300 (sophomore), $350 (junior), and $400 (senior).
4. All ROTC scholarship recipients also receive free room and board from Mercer University.

Basic scholarship eligibility includes:

1. U.S. Citizen
2. At least 17 years old and not older than 27 by June 30th of graduation year
3. Minimum 920 SAT (not necessary for junior and grad degree applicants)
4. Minimum CGPA of 2.5
5. Medically qualified
6. Physical ability, must pass standard Army Physical Test
7. Good moral character
8. Enrolled full time in an approved academic discipline.

**Extracurricular Activities**

Army ROTC students in good standing are eligible to participate in Ranger
Adventure training, survival training, and rappelling which is conducted as part of the curriculum. This training is offered during voluntary weekend trips. The ROTC Department enters teams in every intramural sport on campus. ROTC cadets are highly sought after as resident assistants, rifle team and cross country team members.

**Credits**

All Military Science courses will be taken as a letter grade and not on a S/U basis.

Students receive two credit hours for each basic course class successfully completed (MIL 101, 102, 201, and 202).

Students receive three credit hours for each advance course class successfully completed (MIL 301, 302, 401, and 402).

Students will receive eight credit hours for attending the 35 day Leader’s Training Course in lieu of completing the four basic classes.

Students will receive one hour credit for each of the following courses completed, with PMS approval only (MIL 451 and 452).

**Professional Military Education**

The principal element of the Professional Military Education requirement is the baccalaureate degree. As an integral part of that undergraduate education, cadets seeking an officer’s commission are required to take military history: HIS 330 (The First and Second World Wars, 3 hours). Senior cadets only, who were wait listed and unable to schedule HIS 330 during their freshman, sophomore or junior year may substitute HIS 165 (Problems in American History) for HIS 330.

**Pre-Professional Work**

In addition to the regular courses leading to the Bachelor of Arts, Bachelor of Business Administration, Bachelor of Science, and Bachelor of Science in Engineering degrees, pre-professional work is offered for students expecting to enter any of the following professions: theology, education, law, medicine, pharmacy, dentistry, and medical technology. A student expecting to enter any of these professions, except teaching, will be assigned to a faculty advisor qualified to direct pre-professional study. Students who have questions regarding the pre-professional requirements should consult the Associate Dean of the college or school of enrollment. Early in his sophomore year the student expecting to enter the profession of teaching should consult the chairman of the Department of Education.

**Pre-Legal Preparation**

There is no prescribed program of study for pre-law students. Almost any academic major provides satisfactory preparation. Law schools stress the advantages and diversity offered by a sound liberal arts, business and economics, or engineering education and advise undergraduates to take courses that will develop their ability to write well, to read critically, and to reason logically.

The prospective law student is advised to consult the Bulletin of the Walter F. George School of Law for information concerning admission requirements. Combination Arts and Law Program. Students who complete 64 semester hours and who satisfy the General Education requirements of the College of Liberal arts
of Mercer University, and complete 32 semester hours of the junior year in reside-
ence, will be eligible to apply for admission to the Walter F. George School of
Law. Upon satisfactory completion of the first year in Law School, the student will
receive the Bachelor of Arts degree with a major in Law. An average of C is
required on all work attempted elsewhere, in the College of Liberal Arts at Mercer,
and during the first year of Law School. Thus, a student may obtain the Bachelor
of Arts and Juris Doctor degrees by passing satisfactorily three years of college
and three additional years in the Law School. It should be noted that the Law
School accepts candidates without a degree only in exceptional cases, and that
very few such applicants have been accepted in recent years.

Pre-Dental, Pre-Veterinary Medicine, Pre-Medical and
Pre-Medical Technology Preparation

The pre-dental, pre-veterinary medicine and pre-medical student is urged to
complete four years of pre-professional work and to meet the requirements for the
Bachelor of Arts, Bachelor of Science, or Bachelor of Science in Engineering
degree. It is possible, however, to complete the pre-professional program in only
three years and to proceed to a chosen professional school. The three year com-
bination program, leading to the Bachelor of Science in Dentistry or the Bachelor
of Science in Medicine degree, requires the completion of 90 semester hours of
credit, to include the General Education requirements of the College of Liberal Arts
with the exception of the Senior Capstone course. The student's program must
include at least 33 semester hours in natural science. The Bachelor of Science in
Dentistry will be awarded upon the completion of two years in a dental school and
the Bachelor of Science in Medicine will be awarded upon the completion of one
year of work in a medical school. Within the School of Engineering, the pre-med-
ical requirements may be met by students specializing in Biomedical Engineering.
The goals of this problem-solving oriented curriculum are to prepare the student
for successful study in medical school, further education in graduate school, or
practice in the Biomedical Engineering profession. Students planning to specialize
in Biomedical Engineering may apply to the Dual Biomedical Engineering Medical
School Admission Program (DBemSAP). Students who successfully complete this
program are guaranteed admission to the Mercer University School of Medicine.
More information may be obtained from the departmental office.

For information about the Bachelor of Science in Medical Technology, see the
College of Liberal Arts section of this bulletin.

Pre-Pharmacy Preparation

A minimum of two years (60 semester hours) of pre-professional education is
required prior to entering the four-year Doctor of Pharmacy professional curricu-

umb at the Southern School of Pharmacy. For students enrolled in the College
of Liberal Arts, this work must include credit for: the First-Year Seminar; Chemistry
111, 112, 221, and 222; Biology 210 and 220; Physics 141/121L or 142/142L;
Math 141 or 191; Communication and Theatre Arts 256; Economics 150 or 151;
six semester hours of Humanities (chosen from art, English, foreign languages,
Christianity, literature, Great Books, history, music, and philosophy); and six
semester hours of Social or Behavioral Sciences (chosen from accounting,
African American Studies; anthropology, business, computer science, economics,
geography, history, management, political science, psychology, scientific inquiry,
sociology, and women’ and gender studies).
The Early Acceptance Program (EAP) is designed for students enrolled at the Mercer University College of Liberal Arts (CLA) in Macon. Students who meet the following criteria will be granted early acceptance to the Southern School of Pharmacy (SSP). In order to participate in the EAP, a student must earn all of their undergraduate credit in CLA (occasionally, AP and dual enrollment credit will be accepted in place of the required courses with the approval of the Associate Dean for Student Affairs and Admissions) and maintain an overall GPA of at least 3.0 in all courses (no grade below a "C" will transfer). Starting in the fall of their freshman year, the prospective EAP student must also participate in the academic advising and career seminar programs provided jointly by the pre-pharmacy advisor at CLA and the Associate Dean for Student Affairs and Admissions at SSP. Students planning on pursing this program are encouraged to contact the pre-pharmacy advisor upon their arrival in Macon.

During the summer between the freshman and sophomore years (before August 1st), EAP students are required to apply to the SSP through the Pharmacy College Application Service (PharmCAS). The PharmCAS application will be available online each year starting in June at www.pharmcas.org. In addition, EAP students must submit a supplemental application to the SSP (including a recent picture), although they are not required to submit evaluations, a supplemental application fee, or a tuition deposit. In addition, students are required to take the Pharmacy College Admission Test (PCAT) during their sophomore year and submit their scores to PharmCAS or SSP.

A similar program, the Dual Biomedical Engineering Pharmacy School Admission Program (DBepSAP), is available for students enrolled in the Biomedical Engineering specialization within the School of Engineering. Interested students should consult with the Chair of Biomedical Engineering.

Other pharmacy schools have different requirements. Students are encouraged to work with the pre-pharmacy advisor to ensure that they fulfill the requirements for the schools to which they will apply.

Pre-Theological Education and the Roberts Department of Christianity

The Roberts Department of Christianity is an academic department within the College of Liberal Arts of Mercer University. In addition to providing an opportunity for all Mercer students to be exposed to the broad Christian tradition, the department offers students who intend to enter the Christian ministry a solid foundation for later theological education.

Future pastors, ministers of education, ministers of music, ministers of counseling, ministers of youth, and those who plan a career in teaching religion in academic environments major in the Roberts Department of Christianity. The James and Carolyn McAfee School of Theology in Atlanta, divinity schools, seminaries, and graduate schools of religion highlight the importance and advantages of a broad liberal arts education. The Association of Theological Schools recommends that pre-theological studies include the following fields: religion, English, history, philosophy, natural sciences, social sciences, and foreign languages.

Graduate schools for the study of religion expect their students to be able to speak and write effectively, to think logically, and to read critically. All of these are primary goals of the Roberts Department of Christianity. In addition, the department hopes to produce students who act compassionately in the world.
Teacher Education Program: Undergraduate Program

The Tift College of Education offers programs leading to Georgia teacher certification at the elementary, middle grades, or secondary school levels, as well as in the P-12 areas of Art, Music, and Foreign Languages. Mercer's teacher education programs are approved by the Georgia Professional Standards Commission. The completion of a teacher education program does not guarantee certification by the state of Georgia. Students must successfully complete the appropriate certification tests and meet other criteria for certification as set by the Georgia Professional Standards Commission. Satisfactory levels of performance on all certification tests are established by the Professional Standards Commission.

In the approved teacher education programs which lead to certification in early childhood education and interrelated special education (through a major in the Holistic Child) and in middle grades education, students work closely with an advisor from the Tift College of Education to plan their programs of study. In secondary education and in the P-12 certification fields, a coordinator from the Tift College of Education works cooperatively with a representative from the academic major in which the student is seeking certification. To remain in the Teacher Education Program, students must maintain a 2.5 cumulative GPA, and a 2.75 GPA in all courses taken in the major. A student must earn at least a “C” grade in all academic courses presented for certification to the Professional Standards Commission. See the Tift College of Education section of this Bulletin for a more detailed description of the various teacher education programs.

Admission to baccalaureate study at Mercer does not include admission to the undergraduate Teacher Education Program. All information and forms concerning Teacher Education admission criteria are included in Mercer University's Teacher Education Handbook, which is available at www.mercer.edu and from the Tift College of Education.

Summer School

Summer School is an integral division of the instructional year at Mercer University. The same standards prevail that are maintained during the academic year; accordingly, semester-hour credits earned then are equal in value to those earned during any other semester. The maximum load for the entire summer is 12 semester hours.

The regular Mercer faculty is supplemented by visiting professors. In Education, and in some other departments, special courses are offered that are not given during the academic year. The boarding facilities, the recreational opportunities, the student center, the gymnasium, the library, and all other facilities of the University are available during the summer term.

The Office of International Programs

The Office of International Programs (OIP) is the central administrative unit of international education. The OIP is responsible for the study abroad program, student and faculty exchange programs, international student and scholar services, and the English Language Institute (ELI). The OIP is also responsible for managing the University's undergraduate relationships with foreign universities and academic programs. Its mission is to support students and faculty in each of these areas of international education.
The Study Abroad Program

The Office of Study Abroad facilitates foreign educational experiences for students who want to learn more about their major and minor subjects. Study Abroad is an important part of a liberal education and is instrumental in the individual pursuit of vocation. Students who study abroad at Mercer University demonstrate stronger skills in critical thinking, problem-solving, and cross-cultural communication. Study abroad students better understand globalization and the major cultural, political, and economic differences among modern societies. They also develop an appreciation of their own cultural and personal values. In short, Mercer’s study abroad programs prepare students for life in the complex and interdependent world of the 21st century.

Study abroad opportunities are available to a variety of undergraduate majors in each of the colleges and schools. Students can study abroad in Australia, Austria, Czech Republic, England, France, Germany, Ireland, Italy, and Spain. In addition, Mercer undergraduates can participate in student exchange programs in Hong Kong, Japan, Morocco, Scotland, South Korea, and Sweden.

Study abroad students earn credits that are comparable to those earned on the Macon campus. However, they must enroll in a Mercer University affiliated program in order to transfer foreign academic credit. Many semester and year-long study abroad programs parallel the costs of studying on the Macon campus. There is an additional $500 study abroad administrative fee per semester or year-long program. In addition, students are required to purchase the Worldwide Assistance Plan, which is an emergency travel insurance policy (cost is $48 for the 2004-2005 academic year; price is subject to change). Financial and scholarship aid could be available to eligible students who elect to study abroad. Students who are uncertain about whether or not their aid is applicable to a study abroad program should see a counselor in the Office of Student Financial Planning.

Every student who studies abroad must get approval from his or her academic advisor and the director of international education. With the permission of the Department of Foreign Languages, students can take overseas language and content courses in French, German, Latin, and Spanish (see the study abroad policy in the section on ‘Foreign Languages and Literatures’). Students with a concentration in International Affairs are required to study abroad for at least one semester (refer to requirements for concentrations within the section on the College of Liberal Arts). Business students in the MAPS (Managed Academic Path to Success) program can study abroad, do an international internship, or a combination of the two as a fulfillment of their ‘experiential component’ (see the study abroad and MAPS description in the section on the Stetson School of Business and Economics).

Undergraduate students in the Honors Program are strongly encouraged to study abroad. There are several study abroad programs that meet the honors student’s scholastic interests. Some honors students opt to develop his or her senior research project’s bibliography in Oxford. Many students in the Honors Program enroll in the Oxford Overseas Study Course, which is a tutorial program modeled after The University of Oxford’s method of education. Mercer is one of three universities and colleges invited to participate in this selective academic program. While Mercer students do not matriculate into one of Oxford’s colleges, they are given many of the same study and social privileges as their British peers. Mercer students are taught individually by Oxford professors (dons), are given access to...
selected Oxford libraries, and are given exclusive membership in the Oxford Student Union. Admission to the Oxford Overseas Study Course requires a 3.5 or above G.P.A. The program is open to honors and all other eligible Mercer students. Students are encouraged to apply early; space is limited.

In addition to semester and year-long study abroad opportunities, Mercer University faculty lead short-term study programs during the Christmas break, spring break, and summer sessions. Faculty-led study abroad programs allow students to learn more about another culture and earn academic credit. This type of study program also encourages faculty to mentor their students in unique cultural settings. Faculty-led study abroad programs are usually 2-5 weeks in duration and range in the number of credits hours given (usually 3-6 hours of credit). In the past, Mercer professors have taught students in Australia, Belize, Costa Rica, England, France, Greece, Italy, Japan, Mexico, Scotland, Senegal, Switzerland, and Tanzania. The types of faculty-led study abroad programs differ every year. Faculty-led study abroad program costs include Mercer University tuition, associated travel fees (transportation, accommodation, and board), books/academic materials, a $25 study abroad administrative fee, and the Worldwide Assistance Plan.

Students interested in studying abroad can get further information from the Office of Study Abroad. More information can be gathered from the department's web site at www.mercer.edu/studyabroad. Telephone and e-mail inquiries can be made at (478) 301-4444 or studyabroad@mercer.edu.

Student and Faculty Exchange Programs

The OIP oversees student and faculty exchange programs. Student exchange programs are usually for one semester and are done in partnership with another foreign university. Mercer students can participate in exchange programs at the following universities: Hong Kong Baptist University (Hong Kong), Seinan Gakuin University (Japan), Al Akawayan University (Morocco), The University of Paisley (Scotland), Yonsei University (South Korea), Kalmar University (Sweden), and Lulea University (Sweden). Students interested in studying abroad on an exchange program should contact the Office of Study Abroad.

Mercer faculty can also participate in academic exchanges with these same universities as well as at Seinan Jo Gakuin University (Japan). Faculty members interested in participating in an exchange program with one of Mercer's foreign partners should contact the director of international education.

In addition, instructors in the ELI can participate in an academic exchange with Point Language School (Brazil). There are other student and faculty exchange relationships in each of the professional schools. These exchange programs are solely for students and faculty in the professional schools. For more information on those programs, please contact the dean of the appropriate professional school.

International Student and Scholar Services

The International Student and Scholar Services' program mission is to advise Mercer students on F-1 visas and exchange students/scholars on J-1 visas. The Coordinator of International Student and Scholar Services is responsible person for advising Mercer's international community on these federal immigration regulations. In addition, the program advisor orients Mercer's international community on the cultural adjustment to the classroom and the campus. The coordinator also
serves as the mentor for the Mercer International Student Association (MISA).

Note: All degree-seeking international students who possess F-1 visas on the Atlanta campus and at the Regional Academic Centers will need to visit the Coordinator of International Student and Scholar Services in the Davis Administration Building. Students in the Atlanta English Language Institute (ELI) will need to visit the Assistant Director of the ELI on the Atlanta campus for the advising needs.

For more international student and scholar information, please consult the department's web site at www.mercer.edu/international. Telephone inquiries can be made at (478) 301-2573.

**English Language Institute**

Offered on the Atlanta campus, the Mercer University Language Institute (ELI) is designed to assist the international student in developing English language skills at levels sufficient to succeed in an American university undergraduate or graduate program. Grammar, reading, writing, and speaking skills are taught using an integrated approach. These skills are reinforced in required classes in the computer language laboratory. Practice in using English to complete simulated university tasks is provided at the upper levels. Students who successfully complete the ELI program will fulfill the English Language requirement for acceptance into most undergraduate and some graduate programs.

The curriculum is divided into six levels of skill development. During the academic year, there are four eight week sessions that begin in August, October, January, and March. In Atlanta, there is an eight week summer session that begins in May and a seven week session that starts in July.

International students interested in a degree program in Macon may take ELI courses in Atlanta prior to matriculation in a Mercer college or school. Upon successful completion of the Atlanta ELI, international students may transfer to the Macon campus.

For more information about enrolling at the English Language Institute, visit the departmental website at www.mercer.edu/eli, send an email inquiry to eli@mercer.edu, or telephone (678) 547-6151.
Purpose

The purpose of the College of Liberal Arts is to provide a liberal arts education within the broad outlook of the Judeo-Christian intellectual tradition. The College is committed to the goals of learning and faith; learning as both the means to and the result of scholarship; faith as the personal appropriation of truth for living. Being open to all qualified persons who seek to grow through education, the College strives to uphold the values of personal freedom, individual responsibility and community service.

General Education

The undergraduate schools and colleges of Mercer University are clearly distinct. The autonomy and traditions of each is respected. Although each school is unique, all have identified goals, objectives, and outcomes that they share and that are reflective of a Mercer education. The objectives and specific outcomes, related to each major goal, do not constitute an exhaustive list but rather a summary of the central, intersecting objectives and outcomes.

Mercer University is dedicated to the ideal of educating the whole person and providing a foundation that can be described by the Greek term “Paideia.” Paideia is consistent with the founding vision of Jesse Mercer as he sought to encourage learning and culture for both clergy and laity. Teaching, character development, service and leadership, classical education, and the nurturing of a prevailing culture are all instrumental. Mercer’s aim is to prepare all students to contribute to society through a sharing of their knowledge, skills, and character.

Through the general education curriculum Mercer University graduates will be able to:

A. Reason effectively
B. Demonstrate broad and deep knowledge
C. Demonstrate habits of free inquiry
D. Demonstrate an understanding of themselves in light of the values and traditions upon which the University was founded.

From these four goals flow the intended educational outcomes for general education at Mercer University:

A.
1. Communicate clearly, responsibly, and with integrity in written and oral forms
2. Master at least the basic principles of mathematical and scientific reasoning
3. Identify, access, and evaluate information and materials as needed for personal, academic, and professional purposes
B.

4. Acquire foundational knowledge important to becoming an informed person and/or for the major

5. Relate theory, principles, and content from one discipline to another

6. Demonstrate familiarity with cultures and traditions other than one’s own

C.

7. Work as part of a team/group, to learn and teach cooperatively, to develop an appreciation of individual differences, and to assess one’s own and other’s roles in a working group

8. Consider viewpoints other than one’s own, including viewpoints associated with other cultures and traditions

9. Commit to live as an engaged and informed citizen

D.

10. Reflect on one’s life and learning experience

11. Develop a respect for intellectual and religious freedom

Overview of the Program

Undergraduate students in the College of Liberal Arts may satisfy the general education requirements by completing either the Great Books Program or the Distributional Program. Each program achieves the goals of general education. Although they differ in approach, they share a number of common courses and requirements. Work in either the Great Books or the Distributional Program should prepare students adequately for further study in the College.

Specifics

A. The Common Core

All students must complete a common core of courses and/or requirements. These include: (1) two semesters of First-Year Seminar, (2) mathematics, (3) Scientific Inquiry, (4) at least four semester hours in natural or physical science, (5) a minimum competency in a foreign language, and (6) participation in a Senior Capstone course. The specific requirements are as follows:

1. First-Year Seminar. Because critical writing, reading, and thinking are such integral parts of all college studies, each entering student must either successfully complete the First-Year Seminar or present evidence of equivalent course work at other universities. No AP or CLEP credit is applicable to this requirement. Students whose writing within First-Year Seminar is deemed deficient may be required to enroll in ENG 108.

2. Mathematics. This requirement may be met by successful completion of MAT 104, 121, 133, 141, 191 and, or 226. Students are encouraged to complete this requirement during the freshman year.

3. Scientific Inquiry. Scientific Inquiry is a one semester non-laboratory course that provides an introduction to the human activity known as science in its broadest terms—the physical, natural, behavioral, and social sciences. Its goal is to develop analytical thinking skills, abstract deductive thinking, and empirical analysis.
4. Laboratory Science. Students are required to complete at least four semester hours in laboratory science from biology, chemistry, environmental science, earth sciences, or physics.

5. Foreign Language Competency. Every student must demonstrate mastery of the fundamental features of a foreign language. The requirement may be fulfilled by examination or successful completion of the elementary sequence in French, German, Greek, Latin, Spanish, or Chinese. Students who satisfy the language requirement through a language not offered at Mercer University must request, in writing, permission from the chair of the Department of Foreign Languages and Literatures by the end of the fourth semester of enrollment.

6. Senior Capstone. The Senior Capstone is a multi-disciplinary, integrative seminar, topical in focus and participatory in format, that emphasizes questions of value and meaning. It provides an opportunity for students from a variety of majors and programs to study questions of common human importance, while at the same time it provides a transition from the abstractions of the academy to the complexities, ambiguities, and limitations students will find in their jobs, their communities, their relationships, and their spiritual, emotional, and intellectual lives.

B. The Great Books Program

The Great Books Program places the College of Liberal Arts among a select group of colleges in this country that believe their most important task in general education is to give students, in an extensive course of study, direct contact with the classic writers and thinkers. A twofold premise lies behind this plan for general education: that a coherent body of important texts has shaped and still describes the Western Judaeo-Christian tradition and that by reading, discussing, and writing about these classics, we can best discover our connection with this tradition. In the present age of rapid technological and social change, it is especially necessary that educated men and women know for themselves the ideas, the people, and the values that create our civilization and also understand how other traditions may differ from our own.

To emphasize the breadth of our tradition and to permit a reader assimilation of the many texts to be studied, the College of Liberal Arts Great Books Program extends from the freshman year through the senior year. Participants in this program, in small study groups and under the close personal supervision of a faculty drawn from a variety of disciplines within the College, study firsthand the great works of literature, philosophy, theology, history, and scientific inquiry. On completion of this program, the student will have a solid and carefully shaped foundation for basing judgments and making decisions. The student will have personally experienced the development of ideas and ideals that form our culture.

The Great Books curriculum consists of eight courses designed to be taken in sequence, each carrying three hours credit. In order to complete the General Education requirements in the Great Books Program, a student must complete GBK 101-495.

C. The Distributional Program

The Distributional Program is a traditional approach to general education which closely links the goals of the program to individual disciplines. Students are
introduced to methods of inquiry in the humanities, social sciences, and natural sciences through studies in separate departments. They explore their historical, philosophical, and religious heritage and experience literary works through the fine arts. In addition, students continue to work toward improvement of language skills that began in the common core.

Courses in the Distributional Program which are designed primarily as introductory to the study of specific disciplines are included as options only if they satisfy the objectives of general education. Within sections of this program, there are courses specifically designed to meet the general education needs of students whose major interest lies in some other area.

**Relationship of Programs**

Great Books 101 and Great Books 202 are included in the Humanities and Fine Arts area of the Distributional Program. This allows a student to sample the Great Books curriculum before choosing between the two programs in general education. Any of the Great Books courses may be used as electives.

**D. Additional Depth Requirement**

Students of the College of Liberal Arts are required to supplement their disciplinary focus with higher-level inquiry in other fields. This requirement can be fulfilled in three ways: (1) completing a second major in another department; (2) completing a minor in another department; or (3) completing 15 semester hours of credit in upper-level courses (at or above the 300 numbering) which are outside the student's major department and are not already used to fulfill General Education requirements.

**General Education Program**

**The Common Core**

I. First-Year Seminar (at least 8 hours)
   - FYS 101
   - FYS 102

II. Mathematics (at least 3 hours)
   - MAT 104, 121, 133, 141, 191 and 226

III. Scientific Inquiry (3 hours) SCI 105

IV. Laboratory Science (at least 4 hours)
   - One course from Group 1 or two courses from different disciplines in Group 2.
     1. BIO 210
        - CHM 108, 111, 112, 115
        - ENV 150, ESC 105, 110, 115
        - PHY 141 and 121L, 161 and 121L
     2. MODULES:
        - BIO 105, 106
        - CHM 104
        - ENV 103, 104
        - PHY 101, PHY/MUS 103
        - SCI 110, SCI 111
V. Foreign Language Competency (0 to 8 hours)
 Exam or CHN, FRE, GER, GRK, LAT or SPN 111-112

VI. Senior Capstone (3 hours)
 SCP 450, 451, 452, 453, 454, 455, 456, 457, 458, 459

The Two Tracks

1. The Great Books Program (24 hours)
   1. GBK 101
   2. GBK 202
   3. GBK 203
   4. GBK 304
   5. GBK 305
   6. GBK 306
   7. GBK 407
   8. GBK 495

2. The Distributional Program (24 hours)

   Behavioral Sciences, Social Sciences, and Cultural Studies (at least 6 hours)
   One course must be from Group 1; the other course may be an additional course from Group 1 or a course from Group 2; the two courses, however, must be from different disciplines.

   1. AFR 190
      ANT 201
      ECN 150, 151
      PSY 101
      SOC 101
      POL 101, 253
   2. CTA 165, 251, 260
      PLS 200, 210
      SOC 210
      WGS 180

Humanities and Fine Arts (at least 18 hours)
One course from each of 1-5. One additional course may come from Groups 1-5 or from Group 6.

   1. CHR 101, 150
   2. HIS 111, 112
   3. CLA 101, 102
      CON 101, 102
      ENG 233, 234, 235, 236, 263, 264, 265
      FRE or SPN 303, 304
      GER 351, 352, 353
      LAT 300, 310, 320, 340, 350, 360, and 370
   4. PHI 190, 254, 255, 300, 305, 321, 331, 333, 337, 344, 351, 370, 371
      GBK 202
      CTA 115, 218, 272, 337
Students who receive at least three hours of either transfer or AP credit for introductory United States History will be considered to have fulfilled the Group 6 requirements for the Humanities and Fine Arts block.

**Foreign and Classical Language Placement**

The elementary language sequences (CHN, FRE, GER, GRK, LAT, SPN 111-112) are intended for students who qualify as novices in the respective languages (i.e., having less than two years of high-school level study). Successful completion of an elementary sequence (111-112) fulfills the foreign language competency requirement in general education.

Students who enter the College of Liberal Arts with a background of two or more years of French, German, Greek, Latin, or Spanish AND who wish to continue studying that language are required to take the foreign-language placement test during Orientation. This test will determine whether these students are placed in intermediate or elementary language study. The placement test may be taken only once, and the results are binding.

The prerequisite for enrollment in French, German, Greek, Latin, or Spanish 251 is the successful completion of either the placement test or the 112 course. Students who place into and successfully complete FLL 251 or above will receive four additional hours of credit towards graduation for the elementary sequence.

**Degree Programs**

A Bachelor's degree requires a minimum of 120 semester hours of academic courses numbered 100 and above. Many programs of study will require more. The College of Liberal Arts offers the following degree programs.

1. **Bachelor of Arts.**

2. **Bachelor of Science.** Students who complete the specified major requirements in biology, chemistry, computer science, environmental science, information science and technology, mathematics, physics, or psychology will be awarded this degree.

3. **Bachelor of Music Education.** See details under Music.

4. **Bachelor of Music in Performance.** See details under Music.

5. **Bachelor of Music in Sacred Music.** See details under Music.

6. **Bachelor of Science in Medicine or Bachelor of Science in Dentistry.** For students who complete a combination three-year curriculum in the College and thereafter one or two years of work in an approved medical or
dental school. Students who have been awarded a Bachelor of Arts or Bachelor of Science degree are not eligible for these degrees.

7. **Bachelor of Science in Medical Technology.** A three-year combination program that requires the completion of 96 hours in the College to include the general education requirements (excluding the Senior Capstone) and the requirements of any NAACLS approved School of Medical Technology. A student must complete 16 hours acceptable toward a major in chemistry, 17 hours acceptable toward a major in biology, 4 hours in precalculus and 3 hours of statistics. The Bachelor of Science in Medical Technology will be awarded upon completion of an approved twelve-month program in Medical Technology.

**Undergraduate Degree Requirements**

The policies that apply to all undergraduate degrees are found in the Academic Information section at the front of this *Bulletin*.

**Statement on Student Responsibility:** Each student bears responsibility for knowing the requirements for the degree and for meeting these requirements. Students should review with their adviser or department chair every semester their progress toward meeting graduation requirements.

**Requirements for Majors, Concentrations, and Minors**

Each candidate for graduation must complete a group of courses known as a major or concentration. The Upper Division program that constitutes the major or concentration must be planned in conference between the student and the advisor or chair of the major department. Students may not formally declare a major until they have earned at least 30 semester hours, whether through course work or by examination. Before earning 65 credit hours students must formally declare an academic major or concentration by submitting the appropriate forms to the Office of the Registrar. Otherwise, they will not be permitted to register for courses until they have declared a major. Transfer students must formally declare a major before earning 65 semester credit hours, or before the end of the first semester of enrollment if they are awarded more than 65 hours of transfer credit.

Students may qualify for a second major, provided major requirements are met in full. In addition to the major, a student may wish to complete a group of courses known as a minor. The department course offerings described later in this *Bulletin* state the specific requirements for each major and minor.

The traditional major consists of a minimum of 27 semester hours; at least 15 must be upper division work, and at least 12 hours at the upper division level must be completed at Mercer. The traditional minor consists of between 15 and 18 semester hours; at least 6 must be upper division work, and at least 6 hours at the upper division level must be completed at Mercer. Normally, credit toward graduation will not be given for more than 45 semester hours in any one subject area.

Each degree applicant must have an overall C (2.0) average in all courses taken to satisfy the requirements of the major, the concentration, and, if it is elected, the minor. The student may be required, at the discretion of the major department, to pass satisfactorily a comprehensive examination in the major field.
Majors and Minors

Majors may be taken in the following subjects in the College of Liberal Arts: (Bachelor of Arts program unless otherwise indicated. See also Individualized Major Program and Concentrations.)

1. African American Studies
2. Art
3. Biology (B.A. or B.S.)
4. Chemistry (B.A. or B.S.)
5. Christianity
6. Communication and Theatre Arts
7. Computer Science (B.A. or B.S.)
8. Economics
9. English
10. Environmental Science (B.A. or B.S.)
11. French
12. German
13. History
14. Information Science and Technology (B.A. or B.S.)
15. Journalism
16. Latin
17. Mathematics (B.A. or B.S.)
18. Media Studies
19. Music (B.A., B.M. in Performance or B.M. in Sacred Music)
20. Music Education (B.M.E.)
21. Philosophy
22. Physics (B.A. or B.S.)
23. Political Science
24. Psychology (B.A. or B.S.)
25. Sociology
26. Spanish
27. Theater
28. Women's and Gender Studies

Minors are offered in all the above except Music Education. Minors only are offered in the following subjects:

1. Anthropology
2. Criminal Justice
3. Photography

The School of Business and Economics offers minors in accounting, business, and economics for students not enrolled in the School. The requirements are described in the School of Business section of this Bulletin. The School of Engineering offers minors in Technical Communication and Manufacturing to students not enrolled in the School. The requirements are described in the School of Engineering section of this Bulletin.

Individualized Major Program

Purpose of an Individualized Major. The individualized major program meets the needs of students who evidence a clarity of purpose and unique interests in their personal educational program which cannot be accommodated within the traditionally prescribed (usually departmental) major formats. By providing increased opportunity for these students to pursue their special interests both on and off the residential campus while meeting the requirements for completing a major, it is hoped that Mercer students will not be forced to transfer to other institutions in order to meet their academic needs (and desires) in liberal arts and pre-professional training.

Description of the Individualized Major. The individual major is a program in which students may propose a major study curriculum tailored to their individual needs. Eligibility. In order to be eligible for the Individualized Major a student must have completed at least 30 semester hours and no more than 80 semester hours of college level work with a 2.0 grade point average and have at least 15 semester hours credit at Mercer.
Student Responsibility. The student must choose a committee composed of three members of the faculty, no more than two of whom are in the same department, subject to the approval of the Office of the Dean.

After the committee is selected, but before any committee action takes place, the student must submit a written statement describing the major program, clearly stating the educational goals.

Faculty Responsibility. Faculty members may accept service on committees for individualized majors at their discretion; however, under no circumstances may they serve on more than eight such committees.

Curriculum. The individualized major curriculum may be created from the regular course offerings of Mercer University or courses to be taken at other accredited institutions with a maximum off-campus limit of 20 semester hours, of which 12 semester hours may be credited toward a major and 6 semester hours may be considered related work. The total program of courses must be planned and approved by the committee in advance of its submission to the Office of the Dean for final approval.

Independent Research Projects. As part of the individualized major, students may pursue independent projects, either on or off campus, which afford genuine learning opportunities. These projects shall carry a maximum of 6 semester hours credit and must culminate in a major research paper. Independent projects pursued off campus will be considered a part of the 20 semester hours allowed off-campus under the curriculum section of this proposal.

Comprehensive Examination. A local comprehensive examination may be administered at the completion of the program.

Financial Obligations. Students who take courses at other institutions must meet all admission requirements and must expect to personally assume the financial obligations.

Concentrations

A student may substitute one of the following concentrations for a major:

1. Drama and Theatre. The concentration consists of ENG 233, ENG 333, ENG 332 or ENG 344, ENG 364 or ENG 367, CTA 115, CTA 218, CTA 235, CTA 302, CTA 326, CTA 336 or CTA 337 or CTA 338, and two courses chosen in consultation with the advisor. These courses may be selected in other departments deemed appropriate by the Director in consultation with the student. Students will design and execute a Senior Project in Drama/Theatre under the supervision of a member of the program’s faculty. Students may attain Drama/Theatre Concentration honors by: maintaining a minimum overall 3.50 GPA in their undergraduate program; achieving a minimum overall 3.50 GPA in courses in the concentration; and successfully completing the Senior Project at a level judged worthy of honors by the faculty.

2. Program in Leadership and Community Service. Students must complete the following required core courses: PLS 200, 210, 300, 320 and 390, and senior year practica (PLS 411 and 412). The concentration requires one elementary or beginning measurement course taken from either the department of Sociology (SOC 304), Psychology (PSY 303), or Mathematics (MAT 226). In addition, students must complete an approved elective track which consists of a minor and/or an approved five course
elective sequence of courses taken from another department within the College of Liberal Arts or from another division within the University. For information on approved tracks and course descriptions see the PLS section of the curriculum.

3. **Classical Studies.** The concentration consists of a minor in Latin (15 hours) plus an additional upper-division Latin course (3 hours). Another 18 hours must be taken from three of the following pairs of courses: (a) ART 106 and 362; (b) CLA 101 and 102; (c) HIS 301 and 302; (d) PHI 321 and 360, when the topic is a classical philosopher. One additional course must be taken from ANT 354, GRK 111 or 112, or a course in a-d not already taken. The concentration contains a total of 39 hours, 21 of which must be in upper-division courses. A portfolio of three sample papers from three different disciplines from courses taken for the concentration must be submitted at the completion of the program.

4. **International Affairs.** The concentration consists of the core courses, IAF/POL 253 and IAF 400, plus 36 hours selected from those POL, HIS, and FLL courses designated below; at least 18 hours must be elected from one of these three disciplines and at least 9 hours must be elected from each of the other two disciplines. Students must take all their FLL courses in a single language. Should a student elect 18 hours in FLL, the following stipulations apply: for FRE or SPN, students must take two intermediate-level courses, two composition/conversation courses, and two literature courses from those designated below; for GER, students must take two intermediate-level courses, GER 311, and three more 300-level GER courses from those designated below. In addition, students must complete a study abroad requirement of at least one semester and a community/campus project designed to promote global awareness. This concentration is under the direction of the Political Science Department. Designated courses are (1) POL 310, 312, 313, 351, 352, 354, 355, 356, 380; (2) HIS 317, 318, 322, 324, 326, 327, 332; (3) FRE or SPN 251, 252, 301, 302, 303, 304, 315, 320, or GER 251, 252, 311, 321, 351, 352, 353.

5. **Biochemistry and Molecular Biology.** The Bachelor of Science degree with a concentration in Biochemistry and Molecular Biology consists of the following required courses: CHM 111 and 112 (or CHM 115), CHM 221, 222, 241, 332; BIO 210, 220, 310, 460, 460L, and one biology elective; BIO/CHM 465, 465L; and either BIO 410 or BIO/CHM 466, 466L. The biology elective must be one of the following courses: BIO 303, 325, 330, 450, or a designated BIO 490. Courses required in departments other than Biology or Chemistry are MAT 191, MAT 192, PHY 161/121L. These ancillary courses are often prerequisites to others in Biology and Chemistry. Successful completion of a senior comprehensive examination in Biology or Chemistry is required. Currently, each Department uses the Major Field Achievement Test for this purpose. Students may attain honors in Biochemistry and Molecular Biology by fulfilling the following requirements: (1) select an honors faculty advisor in either Biology or Chemistry by the end of the semester in which one accumulates 90 semester credit hours, and keep this advisor informed of progress toward satisfying the honors requirements; (2) compete the concentration in Biochemistry and Molecular Biology with a grade point average of 3.5 or above in biology and
chemistry courses and 3.25 overall; (3) complete at least 4 semester hours of research (CHM 401, CHM 402, or BIO 499) with a grade point average of 3.00 or above; and (4) write a research paper of publishable quality on an approved topic, using the format of a peer-reviewed journal chosen by the honors advisor. For students pursuing honors, the 4 semester hours of research may substitute for the elective course in biology.

6. **Southern Studies.** A concentration in Southern Studies offers students the opportunity to gain a rigorous interdisciplinary perspective on the rich and varied culture and history of the American South. Students will receive training in different disciplines, including southern history and literature, learning in their senior year to integrate these discipline-specific approaches in a writing-intensive capstone experience in Southern Studies. A concentration consists of ENG/SST 236, ENG 357 and 358, HIS 356, 361, 362, 363, AFR 359 and 360, SST 480, and two courses approved by the Southern Studies Committee. Students may attain honors in Southern Studies by maintaining a minimum overall 3.5 GPA in their undergraduate program, achieving a minimum overall 3.5 GPA in courses in the concentration, and successfully completing a Senior Research Project at a level judged worthy of honors by the Southern Studies Committee. A committee of Southern Studies faculty will oversee the administration of the concentration.

**Credit by Examination**

Full-time students who have gained knowledge of the content of courses through independent study or experience may, with the approval of the appropriate department and the Associate Dean of the College, receive credit by special examination. Credit may not be earned for a seminar, a practicum, or an independent study or research course; nor may a student be examined on a course for which he or she has previously registered for credit or as an auditor. Credit by examination may not be used to fulfill the laboratory science requirement in general education. A student may receive no more than 32 hours of credit from all extra-course examinations including Advanced Placement, CLEP, and the International Baccalaureate Program.

Students should consult the appropriate department well in advance of the anticipated examination. Professors will advise students of course requirements and standards but are under no obligation to provide additional help. Credit by examination for a course may be attempted only twice. In all cases, credit must be attained before the last semester or last full summer session in residence. Information on fees and other aspects of credit by examination is found in the Academic Information section of this *Bulletin*.

**Satisfactory/Unsatisfactory Grading Option**

Any student (regardless of cumulative grade point average or year at Mercer) is permitted to take two courses per academic year on a S/U basis with the following restriction:

1. From the courses listed in the general education requirements that are applicable to a student's major, minor, or concentration (including required courses in related fields) that student may take no more than two courses on a S/U basis. Courses that are offered only on the S/U basis will not count toward the allowable two per year.
2. Other than the exception mentioned above, no course that counts toward a major, minor, or concentration can be taken on a S/U basis.

Curriculum

All courses carry three (3) semester hours of credit, unless otherwise indicated.

ACCOUNTING (ACC)

For description of the courses offered in this area, and of the requirements for the minor (for Liberal Arts majors), see the Section, EUGENE W. STETSON SCHOOL OF BUSINESS AND ECONOMICS, in this Bulletin.

AFRICAN AMERICAN STUDIES (AFR)

Chester J. Fontenot, Director/Professor of English
Gregory Domin, Associate Professor of Political Science
Robert Good, Chair/Associate Professor of History
Sarah Gardner, Associate Professor of History
Tia Gafford Williams, Assistant Professor of English
Robert Hargrove, Professor of Chemistry and Interdisciplinary Studies

African American Studies provides an opportunity for students to study the legacy of Africa and the African Diaspora and to explore other issues concerning race and class.

A major in African American Studies consists of 27 semester hours, including AFR 190 (prerequisite for all other AFR courses), 230, 324, 359 or 360, 363, 495, and at least two additional courses numbered 300 or above. All majors are required to complete AFR 495 with a minimum grade of “C”. A minor in African American Studies consists of 15 hours, including AFR 190, 363, and at least one other AFR course numbered above 300.

Majors may earn Honors in African American Studies by fulfilling the following requirements: a) attain a grade point average of 3.50 in the major, b) complete a research thesis under the direction of an Honors advisor, and c) have this thesis approved by a faculty committee consisting of three instructors who are formally affiliated with the African American Studies Program.

190. Introduction to African American Studies (3 hours)
Prerequisite: One semester of FYS or the equivalent.
This course is designed to help students understand the academic models, approaches and methodologies that characterize African American Studies. In this course, students will become aware of how the African American experience has been defined and researched from an interdisciplinary perspective including literature, religion, sociology, anthropology, psychology, education, folklore, science and music. This course is required for the African American Studies major and minor.

210. Civil Rights and the Black American (3 hours)
The development of civil rights of black Americans from slavery to the present. Consideration will be given to political, social, economic, and philosophical forces that shaped federal and state law and to the legal doctrine embodied in various judicial decisions and legislation in such areas as education, voting, unemployment, and public facilities. The characteristics of the legislative and judicial processes will also receive attention.
230. Religion and the American Black Experience
(\textit{Same as CHR 230})
A consideration of traditional Christian, secularized, and other religious manifesta-
tions of black culture in America, with emphasis upon the modern period.

295. Social Inequality
(\textit{Same as SOC 295})
Prerequisite: One semester of FYS or the equivalent.
This course is designed to help students understand In this course, students will
become aware of the nature of social differences in American society and inves-
tigate a number of current theories that examine the basis for these differences.

300. Special Topics in African American Studies
(\textit{3 hours})
Prerequisite: AFR 190. \textit{he theoretical base for the social inequalities that manifest
themselves among the ethnic minority groups in America.
A study of some significant topic not available through other departmental course
offerings. Topics will be announced in advance. Students may take this course no
more than twice for credit.

324. Sub-Saharan Africa to Independence
(\textit{Same as HIS 324})
A study of sub-Saharan Africa before and during imperialism, with an emphasis
on social and cultural history. Literature, anthropology, and sociology are used to
examine the effects of European rule on African cultures.

330. Race and Politics
(\textit{Same as POL 330})
This course explores the unique political experiences of racial minorities with par-
ticular emphasis on both traditional (e.g., voting, office holding, and lobbying) and
non-traditional (e.g., riots/protests, music, mass movements) efforts to gain polit-
ical stamina. The course will focus on the quality of minority political leadership,
ideology, participation, representation, and strategies for empowerment.

345. Environmental Justice
(\textit{Same as ENV /POL/SOC 345})
This course examines the impact of institutional racism on environmental and
health policies, industrial practices, government regulations and rule making,
enforcement, and overall quality of life in people-of-color communities. The course
will examine the nexus between environmental protection and civil rights, and the
impact of the environmental justice national environmental groups.

351. Black Philosophical Perspective
(\textit{Same as PHI 351})
An examination of the ideas and influence of black thinkers and leaders through-
out the world. Writings of such figures as Fanon, Carmichael, Garvey, Nkrumah,
King, Booker T. Washington, Dubois, Malcolm X, and Douglass will be compared
and contrasted.

356. The Civil War and Reconstruction
(\textit{Same as HIS 356})
The causes of the Civil War, the problems of the nation in wartime, and an inquiry
into new interpretations of Reconstruction history.
495. Senior Seminar in African American Studies (3 hours)
A course designed to fulfill the exit requirement for students majoring in African American Studies. Open as well to AFR minors and other students with senior standing in the College of Liberal Arts. Emphasizing supervised research projects, this seminar enables students to compare methodologies and perspectives, to examine specific problems in African American Studies, and to sharpen their skills as researchers and writers. This course is required for the African American Studies major.
ANTHROPOLOGY (ANT)

For description of the program of study in this area, the requirements for the minor, and of the courses offered, see the heading SOCIOLOGY in this Bulletin.

ART (ART)
INCLUDING PHOTOGRAPHY (PHO)

Gary Lee Blackburn, Chair/Professor
Roger Allen Jamison and Beth Ellen Stewart, Professors
Samuel Lamar Hutto, Associate Professor
Craig Coleman, Assistant Professor

The Art Department offers courses and programs to meet the needs of:

1. Students planning to follow graduate or professional programs in studio art or art history. Related fields requiring a strong art background are archaeology, commercial art, medical illustration, industrial design, interior design, display, packaging, film making, museum direction, and gallery operation. Students planning to attend graduate school in studio art may need to design an individualized major.

2. Students who intend to teach art at either the elementary or secondary level. Mercer's program in Art Education, P-12, is accredited by the State of Georgia. The requirements include the following Education courses: EDUC 225, 256, 308, 357, 383, 398, 485, 492, 476, 411 & 413, and the following art courses: ART 106, 107, 115, 116, 350, 367, 411, 475, and five courses from ART 203, 223, 224, 225, 226, or PHO 221. Fifteen hours in art must come from courses numbered 300 or above. Art Education Majors must meet all the requirements for the Department of Teacher Education to be eligible for certification.

3. Students seeking some knowledge and appreciation of the visual arts, and those who want an avocational experience in the creative arts or crafts. Courses without prerequisites are available for the non-major in painting, ceramics, crafts, printmaking, and sculpture as well as art history.

The Department of Art offers a major with an emphasis in either studio art or art history.

The minimum requirements for an art major, studio emphasis, are ART 106, 107, 115, 116, 350, 367, 475, two courses from ART 203, 223, 224, 225, 226, and one course from ART 351, 352, 353, or 355. Fifteen hours must come from courses numbered 300 or above. The minimum requirements for an art major, art history emphasis, are ART 106, 107, 116, 367, 475; three courses from ART 362, 363, 365, 366, 368, 370; and two courses from ART 114, 115, 203, 223, 224, 225, 226, 350. Fifteen hours must come from courses numbered 300 or above.

A major project, consisting of a graduation exhibition for the studio emphasis or a research paper for the art history emphasis, is required of each major in art and will be undertaken during the senior year in addition to regular class work. The major project must be of sufficient quality to merit the approval of the art faculty; lacking this, the student may be required to continue work in the Art Department until his/her project is satisfactory. Full tuition will be charged for any semester of such extra work.
With the consent of the student, the art faculty may make a selection of outstanding work from the graduation exhibition to be retained as a part of the permanent collection of the University without compensation to the student. Any art work may be retained for exhibition over a period not to exceed two years.

A minor in art consists of fifteen hours, to include one course from ART 106, 107; one course from ART 115, 116; and three art electives, two of which must come from courses numbered 300 or above.

Majors may attain Departmental Honors by fulfilling the following requirements: (1) earn an overall grade point average of 3.50; (2) earn a 3.50 grade point average in all art courses; (3) complete with distinction a major project consisting of a graduation exhibition or a research paper during the senior year.

106. History of Art I (3 hours)
A survey of the major works of visual art and architecture from prehistoric times to the late Middle Ages in Europe. An investigation of how changes in subject matter and style reflect the power structures, ideals, philosophy, religion, scientific ideas, and literature of cultures that have contributed to the Western tradition. This course can be part of the Classical Studies Concentration.

107. History of Art II (3 hours)
A survey of the major works of painting, sculpture, and architecture from the beginning of the Renaissance to the end of the nineteenth century. Attention is given to the changing role of the artist in the Western tradition and how styles in art relate to social, political, philosophical, religious, and scientific ideas.

114. Art Methods and Materials (3 hours)
A practical course that explores the tools, materials, and processes used in sculpture, painting, ceramics, printmaking, and photography; their use and historical development will be stressed over the making of finished art work.

115. Drawing Fundamentals (3 hours)
An introductory course with emphasis on basic drawing skills and idea development. Composition, perspective, line, value, and drawing technique will be explored through the use of a variety of drawing media.

116. Fundamentals of Design and Color (3 hours)
An introductory course in two dimensional design concepts and color theory. Projects in a variety of media are used to investigate the properties and uses of color and to solve problems in two dimensional design.

116C. Fundamentals of Design and Color (3 hours)
This course is identical to ART 116, with the exception that it is taught using computer-based media.

202. Intermediate Drawing (3 hours)
Prerequisite: ART 115 or consent of the instructor.
An advanced course in drawing, stressing an individual approach to specific problems. Attention will be given to style development and presentation of finished work.

203. Introduction to Crafts (3 hours)
Development of a philosophy of craft experience, using production as the basis of a materials sense. Honest workmanship, sincere utilization of substances, original design, and technical competence are stressed.
223. Ceramics (3 hours)
Construction and decoration of stoneware pottery and small sculptures with an introduction to three dimensional design. Coil, slab, and wheel methods; firing and glazing.

224. Sculpture (3 hours)
Basic three-dimensional design, modeling in clay, and carving in wood or stone. Preliminary models are developed into final sculptures.

225. Painting (3 hours)
An introductory course in painting that explores pictorial composition through a variety of media. Completion of ART 115 and 116 prior to enrollment is recommended.

226. Printmaking (3 hours)
Instruction in the creation of relief and intaglio prints (wood + linocuts, etching & aquatint, monotypes, collagraphs). It is highly recommended that students complete ART 115 or have some drawing skills before taking printmaking.

350. Life Drawing (3 hours)
Prerequisite: ART 115 or consent of instructor. A study of the human figure from life and anatomical models in charcoal, pen and ink, and other graphic media.

351. Advanced Sculpture (3 hours)
Prerequisite: ART 224 or consent of instructor. Instruction in figure modeling, carving and casting, as well as the use of new materials. Pneumatic equipment for stone and wood carving are utilized.

352. Advanced Painting (3 hours)
Prerequisite: ART 225 or consent of instructor. Wide latitude is given in the choice of painting media, problems, and techniques, encouraging individual creative expression.

353. Advanced Ceramics (3 hours)
Prerequisite: ART 223 or consent of instructor. Instruction in wheel-thrown and slab-built pottery and sculpture. Glaze theory and formulation, historical topics, and alternative methods for firing, glazing, and surface treatment of ceramics are investigated.

354. Digital Imaging (3 hours)
An advanced level course teaching the use of the computer as an aid in designing art work and as a medium for creative work.

355. Watercolor (3 hours)
Prerequisite: ART 115 or consent of the instructor. A painting course in which the medium of transparent watercolor is used to explore a wide range of subjects. Much of the work for the class will be done on location.

362. Ancient Art (3 hours)
A study of selected themes from the arts of Greece and Rome, and archeological and art historical techniques for dating, attributing, and interpreting works of art.
363. Art of the Middle Ages  
A survey of the major works of art and architecture from the end of the Roman Empire to the late Gothic period. Early Christian, Byzantine, Northern early medieval styles, and the Romanesque and Gothic art of the High Middle Ages (and some of the music) are related to the life and beliefs of the times. “This course can be part of the Classical Studies Concentration.”

365. The Italian Renaissance  
An in-depth look at the art, artists, and patrons who created the perspectival figurative tradition that still shapes our visual world. Information is given about the impact of new materials and techniques, training, patronage, as well as theoretical ideas about art and artists.

366. Baroque Age  
A survey of the change and variety in Baroque art from England, Holland, Italy, Spain, and other European countries. Students will learn to analyze structures and styles to see how they related to the changing scientific and religious beliefs at the beginning of the modern age.

367. Modern Art History  
A survey of the Neo-classic, Romantic, and Realist Revolutions that started the age of “isms” from Impressionism and Expressionism to Cubism, Futurism, Surrealism, and many others up to the “post-modern” age.

368. Far Eastern Art  
The arts of the Far East, primarily those of India, China, and Japan are studied in relation to their religious and political history.

370. Women in Art  
(Same as WGS 370)  
A consideration of the contributions of women in the field of art and the social context in which they have worked, as well as the depiction of women in works of art to discover the criteria by which we judge works of art (and artists) and how visual images can reinforce or change our sense of reality, such as assumptions about gender roles.

380. Special Arts Subjects (Subtitle)  
Prerequisite: Consent of instructor.  
A study of some significant area not otherwise covered in credit offerings. May be repeated for a maximum of 6 hours credit.

411. Art Education: The Early Years and Middle Grades  
(Same as EDUC 411)  
A study of the methods, materials, and curriculum appropriate for guiding art activities in kindergarten through grade eight.

413. Art Methods and Media  
(Same as EDUC 413)  
Prerequisites: ART 411 and admission to the teacher education program.  
A study of the methods, media, and materials for teaching art at the secondary level in the public schools. Field experience required. (Does not count toward the art major).

470. Gallery Internship  
Prerequisite: A declared Art major or permission of the instructor.
Students learn the general operation and management of a gallery and exhibition planning and presentation. Students propose, design, hang exhibitions; write and publish catalogs and publicity; read and discuss articles on theory of exhibitions; act as docents for student groups as well as possibly doing volunteer work for local museums. Graded S/U May be repeated for a maximum of 2 hours credit.

475. Problems in Art Criticism (3 hours)
Prerequisites: ART 367 and senior status or consent of the instructor.
An investigation of the origins, nature, and functions of the visual arts to develop criteria of aesthetic judgment.

490. Directed Independent Study (1-3 hours)
Prerequisite: Consent of instructor and chair.
An advanced course in art theory, practice, or research may be designed for a student who evidences clarity of purpose and unusual ability in art. (This course may complement but not replace or duplicate the major project.) May be taken for variable credit of 1-3 hours, one hour of credit for each three hours of studio work per week. May be repeated for a maximum of 6 hours credit.

PHOTOGRAPHY (PHO)

A minor in photography consists of five courses: PHO 221, 323, 424, and two courses from ART 116, 367, or CTA 165. Photography courses will not count toward a major in art.

221. The Art of Photography (3 hours)
An introduction to the history, theory, and practice of photography. The special qualities of photography as an art and an expressive tool are illustrated through exercises in pictorial composition and lectures on basic design. The visual world is seen in terms of the viewfinder with prints or slides recording the student's vision. Critiques are supplemented by student analyses of creative work. (Students must supply their own manual exposure camera.)

323. The Practice of Photography (3 hours)
Prerequisite: PHO 221.
This course involves the melding of the art and science of photography in picture-making, developing, and enlarging. Darkroom techniques are emphasized, including creative approaches to printing and manipulation of the image. Special assignments are centered on subject matter and techniques, field trips and class projects in portraiture and still life, lighting, and color. (Students must supply their own manual exposure camera.)

424. Advanced Photography (3 hours)
Prerequisite: PHO 323.
Students will be expected to participate in photo-journalism projects, contests, or exhibitions. Special displays of work will be mounted and shown locally or in traveling shows. Publication and the development of a personal style will be encouraged as intensive picture-making continues and critiques are regularly held. Visiting professionals will participate in photo-seminars. (Students must supply their own manual exposure camera.)

498. Directed Independent Study (1-3 hours)
Prerequisite: Consent of the instructor and chair.
An advanced course in the theory or practice of photography, designed by the student. The course can be repeated for a total of six hours credit.
The curriculum of the Biology Department is designed:

1. to increase the student’s understanding of the unifying principles and subject content of biology;
2. to develop the student’s basic skills in critical thinking, problem solving, communication, computer use, and library and laboratory research;
3. to introduce students to the personal, social, and ethical aspects of biology;
4. to emphasize the role of liberal education in enhancing personal and professional development; and
5. to assure that students have the background experiences necessary to pursue graduate education, professional studies, or employment.

The Department of Biology offers two majors and contributes to the Concentration in Biochemistry and Molecular Biology (for details, see Concentrations in the College of Liberal Arts).

A. The Bachelor of Science degree in biology requires these biology courses, totaling at least 36 semester hours: BIO 210 and 220 and at least 26 hours in biology courses numbered above 220. The major courses must include BIO 310 and BIO 370; one course from BIO 300, 301, or 302; and at least one 400-level laboratory course. The remaining biology courses will be selected in consultation with the major advisor and will be directed toward the student’s educational and professional goals. Several biology courses are offered in alternate years or less often, so careful planning is important. At least 15 hours in biology must be in courses numbered 300 or above. Courses required in departments other than biology include MAT 133; CHM 111, 112, 221, and 222; and PHY 141 AND 121L or 161 AND 121. Additional courses in mathematics (MAT 141 or 191), chemistry, physics, or computer science are often strongly recommended or necessary for students wishing to pursue graduate work in biology or for preparation for professional study, such as medical school. Students interested in graduate work or professional school should seek appropriate advisement early in their careers to plan carefully for these additional courses. Successful completion of a senior comprehensive examination is required. Currently, the Department uses the Major Field Achievement Test for this purpose.

B. The Bachelor of Arts degree in biology requires these biology courses totaling at least 36 semester hours: BIO 210 and 220 and at least 26 hours in biology courses numbered above 220. The major courses must include BIO 310 and BIO 370; one course from BIO 300, 301, or 302; and at least one 400-level laboratory course. The remaining biology courses will be selected in consultation with the major advisor and will be directed toward the student’s educational and professional goals. Several biology courses are offered in alternate years or less often, so careful planning is important.
At least 15 hours in biology must be in courses numbered 300 or above. Courses required in departments other than biology include MAT 133; CHM 111 and 112. Students are advised that a Bachelor of Arts major in biology is usually not appropriate for those interested in graduate work in biology, professional school, or industry positions. Successful completion of a senior comprehensive examination is required. Currently, the Department uses the Major Field Achievement Test for this purpose.

Biology majors are strongly encouraged to enroll in PHI 333 (Philosophy of Science) in order to satisfy general education requirements. Minors in biology must take at least 17 semester hours, to include BIO 210 and 220. At least seven hours must be in courses numbered 300 or above. Only one non-laboratory course can count in the minor.

A biology major may earn departmental honors by fulfilling the following requirements: (1) apply to the department for appointment of an honors advisor at the end of the semester in which she or he accumulates 75 hours of credit, including 21 hours in biology; (2) graduate with a B.S. or B.A. in biology with a grade point average of at least 3.50 in biology and 3.25 overall; (3) in consultation with the honors advisor: (a) devise and carry out a field or laboratory research project, or (b) produce a museum-quality biology exhibit; (4) prepare a paper describing the honors project using an acceptable biological journal format; (5) present a seminar to students and faculty in the Department, describing the honors project; and (6) receive departmental approval upon completion of the project.

105. Human Genetics and DNA Technology  (2 hours)
Prerequisite: SCI 105.
This eight-week science laboratory module will focus on classic and modern genetics using the human organism as the research model. Development of the field's major concepts will be examined from an historical perspective in which students will analyze and interpret the classic experiments of the pioneering geneticists. Laboratory exercises will emphasize current techniques inmolecular biology and will be complemented by class discussions of related bioethical issues. A lecture and laboratory course.

106. Piedmont Natural History  (2 hours)
Prerequisite: SCI 105.
This eight-week science laboratory module is a study of the natural history of the Piedmont physiographic province. This course provides an introduction to the biological and geological processes that have led to the development of the unique ecosystems found in the Piedmont. Field identification and experimentation with organisms that inhabit this region are emphasized. Students are required to arrange transportation to off-campus locations each week for the duration of the course. A lecture, laboratory, and field course.

205. Introduction to Biology for Biomedical Engineers  (4 hours)
Prerequisites: MAT 133 and CHM 112 or CHM 115.
An introduction to selected principles of the biological sciences for biomedical engineering students. Subjects include bioenergetics, biochemistry, physiology, genetics, cell biology, and physiology and homeostasis. The course may not be used for a biology major or minor. This course is not recommended for pre-medical students. A lecture and laboratory course.
210. Introduction to Biology I (5 hours)
Pre- or corequisite: CHM 112 or CHM 115.
An introduction to the unifying principles of the biological sciences. Subjects include evolution, genetics, basic biochemistry, energy transfer, cell biology, and development. A lecture, recitation, and laboratory course.

220. Introduction to Biology II (5 hours)
Prerequisite: BIO 210.
Continues the introduction to the unifying principles of the biological sciences. Subjects include physiology and homeostasis, biodiversity, and ecology. A lecture, recitation, and laboratory course.

250. Current Issues in Biology (1 hour)
Prerequisite or corequisite: BIO 210.
A seminar focusing on current research problems in all disciplines of the biological sciences. Student analysis, discussion, and presentation of primary literature are required. This course may be repeated for a maximum of three semester credit hours; however, no more than two credit hours may be counted as part of the biology major.

299. Research in Biology (1-2 hours)
Participation in an on-going research program directed by one or more faculty members. One-hour credit will be awarded for a minimum of three hours per week per semester of participation. A maximum of two credit hours can be earned per semester. This course may be repeated for a maximum of three semester credit hours.

300. Invertebrate Zoology (4 hours)
(Same as ENV 300)
Prerequisite: BIO 220.
A systematic study of the invertebrate taxa with emphasis on phylogeny, comparative morphology and physiology, behavior, and ecology. A library research paper is required. A lecture and laboratory course.

301. Vertebrate Zoology (4 hours)
Prerequisite: BIO 220.
A systematic study of vertebrate organisms with emphasis on comparative morphology, behavior, ecology, and phylogeny. A library research paper is required. A lecture and laboratory course.

302. Plant Biology (4 hours)
Prerequisite: BIO 220.
A systematic study of photosynthetic organisms, including unicellular and multicellular protists, bryophytes, seedless vascular plants, and seed plants. May include study of fungi. Emphasis is placed on anatomy, morphology, physiology, and evolutionary relationships. A library research paper is required. A lecture and laboratory course.

303. Microbiology (4 hours)
Prerequisite: BIO 220; organic chemistry recommended.
A course in general microbiology covering activities and distinguishing characteristics of microorganisms, including viruses. Laboratory work deals with isolation, identification and cultivation of microorganisms, their metabolic activities, and responses to environmental factors. A lecture and laboratory course.
310. Genetics (4 hours)
Prerequisite: BIO 220.
A study of the mechanics of heredity considering molecular, cellular, organismal, and population phenomena. Formal laboratory writing is required. A lecture and laboratory course.

315. Field Studies in Biology (3 hours)
( Same as ENV 315)
The biological study of a given region of the world through travel, field work, reading, and lecture. Specific topics (e.g., ecology, animal behavior, zoology, botany, and/or environmental issues) will reflect the expertise of the instructor and the characteristics of the region. As appropriate, field experience will be supplemented by informal lectures, seminars, demonstrations, discussions, experimentation, and directed study. A library research paper as well as other forms of writing will be required. A lecture and field course.

322. Identification of Vascular Plants (4 hours)
Prerequisite: BIO 220 or consent of instructor.
A study of the families, genera, and species of vascular plants represented in the flora of Georgia and the southeastern United States. Independent work in the field is required. A field, laboratory, and lecture course.

325. Comparative Animal Physiology (4 hours)
Prerequisite: BIO 220 or 205; organic chemistry strongly recommended.
A study of the diverse ways in which different kinds of animals meet their functional requirements. Attention will be paid to the evolutionary relationships of animals by comparing physiological and biochemical characteristics. Formal laboratory writing may be required. A lecture and laboratory course.

330. Vertebrate Histology (4 hours)
Prerequisite: BIO 220.
An observation and discussion of the structure and function of vertebrate cells and tissues. The course involves microscopic examination of selected tissues and the preparation of microscope slides. A lecture and laboratory course.

370. Principles of Ecology (4 hours)
( Same as ENV 370)
Prerequisite: BIO 220.
A study of relationships between organisms and their physical and biological environment. Ecological relationships will be considered from the perspectives of individuals, populations, and communities. Work in the field is required and oral presentations are emphasized. A lecture, laboratory, and field course.

375. Organic Evolution (3 hours)
Prerequisite: BIO 220.
A study of the principles of evolutionary theory. The course covers the historical development of evolutionary thought, the nature of organic diversity, variation, adaptation, natural selection, and other mechanisms of evolutionary change. A lecture course.

390. Special Topics in Biology (Subtitle) (1-4 hours)
Prerequisites: To be specified.
Study of a topic not available through normal departmental offerings. Topics will be announced in advance. Credit hours and prerequisites will be determined by
the nature of the topic, with a maximum of 4 credit hours per course. No more than 4 credit hours may be counted as part of the biology major.

410. Molecular Genetics (4 hours)
Prerequisite: BIO 310 and CHM 222.
A detailed study of the molecular aspects of gene structure, function, and evolution. Laboratory work will focus on recombinant DNA technology and other molecular tools used by modern geneticists. Experimental design and formal laboratory writing are required. A lecture and laboratory course.

440. Aquatic Biology (4 hours)
(Same as ENV 440)
Prerequisite: BIO 220.
Aquatic ecosystems encompass a wide spectrum of habitats, ranging from the world's major oceans and rivers down to the smallest tidal pools and mountain streams. Course content will reflect this diversity as well as the fundamental principles unifying these systems, emphasizing the adaptations of representative communities to the physicochemical characteristics of the varied habitats. The laboratory component will combine field trips to local middle Georgia aquatic environments with wet labs, where collected plant and animal samples will be identified. Experimental design and formal laboratory writing are required. A lecture, laboratory, and field course.

450. Development (4 hours)
Prerequisite: BIO 220.
A study of the developmental process in animals and plants with emphasis on the molecular and cellular mechanisms by which development is regulated in animals. Experimental design and formal laboratory writing are required. A lecture and laboratory course.

460. Eukaryotic Cell Biology (3 hours)
Prerequisite: BIO 220; organic chemistry strongly recommended.
A study of the structure and function of eukaryotic organelles as distinct compartments. Emphasis is placed on understanding the role of each organelle in the overall functioning of the individual cell. Electron micrographs are used extensively.

460L. Eukaryotic Cell Biology Laboratory (1 hour)
Investigative laboratory component to complement BIO 460. Techniques include gel electrophoresis, centrifugation, cell culturing, Western blotting, chromatography, and microscopy. Experimental design and formal laboratory writing are required. The course includes one four-hour laboratory each week.

465. Biochemistry I (3 hours)
(Same as CHM 465)
Prerequisites: BIO 210 and CHM 222.
A course on the nature of the chemical and physiochemical properties of living organisms. Includes an overview of the synthesis and structure of biological macromolecules, enzyme kinetics, mechanisms of reactions, metabolism, and energy exchange. This course includes three one-hour lectures per week.

465L. Biochemistry I Laboratory (1 hour)
(Same as CHM 465L)
Corequisite: CHM/BIO 465.
Investigative laboratory component to complement CHM/BIO 465. Techniques
used include electrophoresis, analysis of enzyme kinetics, chromatography, centrifugation, and protein analysis and centrifugation. Experimental design and formal laboratory writing are required. The course includes one four-hour laboratory each week.

466. Biochemistry II  
(3 hours)  
((Code as CHM 466)  
Prerequisite: CHM/BIO 465.  
A continuation of CHM/BIO 465 covering the chemistry of cellular metabolism. Topics include biosynthesis and degradation of lipids, amino acids, and nucleotides; photosynthesis; the chemistry of DNA and RNA; and the concepts of molecular physiology. The course includes three one-hour lectures each week.

466L. Biochemistry II Laboratory  
(1 hour)  
(Chame as CHM 466L)  
Corequisite: CHM/BIO 466.  
Investigative laboratory component to complement CHM/BIO 466. The course focuses on the analytical tools used in the modern biochemical laboratory. Experimental design and formal laboratory writing are required. The course includes one four-hour laboratory each week.

470. Population Biology  
(4 hours)  
(Chame as ENV 470)  
Prerequisites: BIO 220 and MAT 141 or MAT 191.  
A study of the structure, growth, and genetics of theoretical, laboratory, and natural populations of all types of organisms. Physical limitations, competition, predation, parasitism, and mutualism will be considered from theoretical, practical, and evolutionary perspectives. Experimental design and formal laboratory writing are required. A lecture, laboratory and field course.

490. Advanced Topics in Biology (Subtitle)  
(1-4 hours)  
Prerequisites: BIO 220 and other courses to be specified.  
A detailed study of an advanced topic not available through normal offerings. Topics will be announced in advance. Credit hours and additional prerequisites will be determined by the nature of the topic with a maximum of 4 credit hours per course. May be taken more than once as part of the biology major. Can be used as the 400-level laboratory course in the major requirements only if a laboratory with experimental design and formal laboratory writing is included.

499. Senior Research in Biology  
(1-4 hours)  
A special problem or research project will be arranged according to the qualifications of the student. The student should plan to extend this work over a period of at least two semesters, with the credit being assigned in the second semester. Credit hours to be determined by the nature of the problem or research, with a maximum of 4 credit hours for a single topic. No more than 4 credit hours of BIO 499 can apply toward the major. This project can also be used as part of an Honor Program in Biology.

BUSINESS (BUS)  

For description of the courses offered in this area, and of the requirements for the minor (for Liberal Arts majors), see the section, EUGENE W. STETSON SCHOOL OF BUSINESS AND ECONOMICS, in this Bulletin.
CHEMISTRY (CHM)
Jeffrey Dean Hugdahl, Chair/Associate Professor
D. Scott Davis and Robert John Hargrove, Professors
Dale Edward Moore, Andrew J. Pounds, Brian Eugene Rood, and Caryn Sanford Seney, Associate Professors
Elaine Butler, Joel A. Dopke, Nancy Carter Dopke, and Arthur Salido, Assistant Professors

The role of the Department of Chemistry is to foster the development of students in the understanding of the chemical foundations that are central to chemical, physical, and biological sciences. The Department of Chemistry offers three majors and contributes to the concentration in Biochemistry and Molecular Biology.

1. The Bachelor of Science major in chemistry, certified by the American Chemical Society, consists of these courses totaling 42-45 semester credit hours: CHM 111/112 or 115; CHM 221, 222, 241, 311, 331, 332, 341, 371, 372, 395, 401 (2 credits), 402 (2 credits), 465; and one course from CHM 411, 421, 431, 481. Required courses from other departments include: BIO 210, MAT 191, 192, PHY 161/121L, 162/162L. Successful completion of a senior comprehensive examination is required.

2. The Bachelor of Arts major in chemistry consists of these courses totaling 33-36 semester credit hours: CHM 111/112 or 115; CHM 221, 222, 241, 311, 332, 395; six credit hours from CHM 331, 341 or 351, 465, 466; and four credit hours from CHM 371, 372, 401, 402, 465L, 466L. Students are required to complete a course selection plan approved by the Department of Chemistry prior to enrolling in courses numbered above 300. Required courses from other departments include MAT 191, 192, PHY 161/121L, PHY162/162L. Successful completion of a senior comprehensive examination is required.

3. The Bachelor of Science major in chemistry with emphasis on biochemistry, certified by the American Chemical Society, consists of these courses totaling 43-46 semester credit hours: CHM 111/112 or 115; CHM 221, 222, 241, 311, 331, 332, 341, 371, 372, 395, 465, 466; and four credit hours from CHM 401, 402, 465L, 466L. Required courses from other departments include: BIO 210, MAT 191, 192, PHY 161/121L, PHY162/162L. Successful completion of a senior comprehensive examination is required.

A minor in Chemistry consists of CHM 111/112 and at least seven additional credit hours in CHM courses numbered above 200; or CHM 115 and at least ten additional credit hours in CHM courses numbered above 200. No more than one credit hour of CHM 295 may be counted toward the minor requirement.

Departmental Honors in chemistry may be attained by fulfilling the following requirements: (1) select an honors faculty advisor in chemistry by the end of the semester in which one accumulates 96 semester credit hours and keep this advisor informed of progress toward satisfying the honors requirements; (2) complete the B.S. major in chemistry with a grade point average of 3.50 or above in the major, or complete the B.A. major in chemistry and a second major with a grade point average of 3.50 or above in both majors; (3) complete at least 4 semester credit hours of chemical research (CHM 401 and CHM 402) with a grade point average of 3.00 or above; and (4) write a paper of publishable quality on an
approved topic of chemistry, using the format of The Journal of the American Chemical Society.

099. Chemistry Problem Solving (1 hour)
Corequisites: CHM 111 and MAT 133
A support course taken in conjunction with General Chemistry I. This course provides explicit problem-solving instruction, focusing on learning and practicing those strategies appropriate to General Chemistry. Chemistry Tutorial includes one weekly one-hour recitation meeting.
This course does not count toward the degree.

104. Household Chemistry (2 hours)
Prerequisite: SCI 105.
An introduction to properties of chemical substances found in the home. Concrete examples of everyday household materials are used to formulate the theoretical framework used in modern chemistry. The chemist’s practice of categorizing materials into groups and grouping reactions into a small number of varieties will be developed. The nature and reactivity of materials will be emphasized. The course is taught as an eight-week module with lectures and laboratories.

108. Concepts of Chemistry (4 hours)
This course is designed for non-science majors. Emphasis is given to the application of a limited number of fundamental chemical concepts emphasizing the chemistry of life-systems and problems concerned with humanity, the environment, and the chemical industry. An attempt is made to demonstrate the manner in which a chemist unravels the mysteries of nature, rather than the development of technical proficiency. The course includes three one-hour lectures and one three-hour laboratory each week.

111. General Chemistry I (4 hours)
Prerequisite MA T 133 or equivalent or coenrollment in CHM 099.
CHM 111 is the first course in a two-part sequence that introduces students to the fundamental principles of chemistry. It studies matter and its transformation in chemical reactions. The states of matter, stoichiometry, equilibrium, and acid-base chemistry are treated in detail and are explained on the basis of atomic structure, chemical bonding, molecular geometry, and the kinetic molecular theory. Laboratory work introduces volumetric and simple analytical techniques in chemistry. The course includes three one-hour lectures and one three-hour laboratory each week.

112. General Chemistry II (4 hours)
Prerequisite: A grade of “C” or better in CHM 111.
CHM 112 is the second course in a two-part sequence that introduces students to the foundational principles of chemistry. Students will be exposed to the theoretical and experimental bases of thermodynamics, kinetics, oxidation-reduction reactions, and quantum mechanics. Within this framework, the concepts of thermo-chemistry, free energy, reaction rates, electrochemistry, and bonding theory will be developed. The course includes three one-hour lectures and one three-hour laboratory each week.

115. Advanced General Chemistry (5 hours)
Corequisite or Prerequisite: MAT 191.
CHM 115 is an accelerated general chemistry course that seeks to unify many of
the themes in General Chemistry to develop a comprehensive understanding of the subject. Students in CHM 115 will be introduced to the microscopic and macroscopic descriptions of matter and its behavior. They will be exposed to the fundamental laws of mass and energy conservation and their application to chemical systems and reactions. Students will also be introduced to the fundamentals of chemical thermodynamics and its bearing on equilibrium in gases, acids and bases, and ionic solutions. The course includes three one-hour lectures, one three-hour laboratory, and one one-hour computational recitation each week.

221. Organic Chemistry I (4 hours)
Prerequisite: CHM 112 or CHM 115.
A study of the chemistry of carbon compounds. The various functional groups and their transformations are studied systematically. Reaction mechanisms and the formulation of synthetic schemes are emphasized. Basic theory and interpretation of ultraviolet/visible, infrared, and nuclear magnetic resonance spectroscopies and mass spectrometry are discussed. Laboratory work involves the separation, preparation, and both chemical and instrumental analysis of organic compounds. The course includes three one-hour lectures and one three-hour laboratory each week.

222. Organic Chemistry II (4 hours)
Prerequisite: A grade of “C” or better in CHM 221.
A continuation of CHM 221. The course includes three one-hour lectures and one four-hour laboratory each week.

241. Quantitative Analysis (3 hours)
Prerequisite: CHM 112 or CHM 115.
A study of classical methods of analysis, stressing the quantitative aspects of chemistry. Emphasis is given to the treatment of analytical data (including error analysis). A thorough study of equilibria as it pertains to acid/base, precipitation, complexation, and redox phenomena is included. An introduction to quantitative spectroscopy, as it pertains to atomic absorption and ultraviolet/visible spectral methods, is given. Laboratory work includes gravimetric, volumetric, atomic absorption, ultraviolet/visible, and simple potentiometric methods of analysis. The course includes two one-hour lectures and one four-hour laboratory per week.

295. Chemical Research (1-2 hours)
Prerequisite: Approval of department chair and a faculty research director.
Participation in an independent research problem directed by one or more faculty members. One hour credit will be awarded for three hours per week per semester of satisfactory participation. A maximum of two credits can be earned per semester. This course may be repeated for a maximum of six semester credit hours. Attendance at departmental seminars and a seminar paper are required for each research topic taken.

311. Inorganic Chemistry (3 hours)
Prerequisite: CHM 221.
A survey of the chemistry of the elements, including main group, transition metal, and organometallic compounds in both inorganic and biological systems. An examination of acid-base and redox properties of these compounds is included. This course presents the structure, bonding, and reactivity of inorganic compounds through three one-hour lectures each week.
331. Quantum and Statistical Mechanics (3 hours)
Prerequisites: CHM 112 or 115, MAT 192, PHY 162/162L.
An introduction to quantum mechanical and statistical thermodynamic models. The principles and applications of quantum chemistry are introduced, including exactly soluble models, and atomic and molecular spectra. Properties of matter are interpreted by application of statistical mechanics to populations of atoms and molecules. Both segments of the course entail rigorous application of numerical methods to problems in physical chemistry. Course meetings include three one-hour lecture periods per week.

332. Reaction Dynamics (3 hours)
Prerequisite: CHM 112 or 115, MAT 192.
An introduction to the thermodynamic and kinetic influences on chemical and biochemical reactions. Course topics include laws of thermodynamics, phase equilibria, chemical equilibria, kinetic theory, empirical kinetics, and reaction mechanisms. Examples are drawn primarily from process chemistry and biochemistry. Course meetings include three one-hour lecture periods per week.

341. Instrumental Analysis (3 hours)
Prerequisites: CHM 222, 241.
A study of the instruments that are used for separation (such as gas chromatography and high performance liquid chromatography) and spectroscopic methods of analysis (including infrared, ultraviolet/visible, nuclear magnetic resonance, atomic absorption, atomic emission, and mass spectrometry). Attention is given to the block diagrams and the basic theory of the various instruments.

351. Environmental Chemistry (4 hours)
(Same as ENV 351)
Prerequisite: CHM 241.
A study of the physiochemical properties of substances that determine their fate and transport in the environment. Inorganic and organic substances will be examined as they are deposited, transported, transformed, and stored in the soil/sediment, water, and atmosphere. Techniques for the sampling and analysis of nutrients, toxic metals, and organic priority pollutants will be examined. A lecture, laboratory, and field course.

371. Problems in Chemistry I (2 hours)
Prerequisites: CHM 222 and 241, MAT 192, PHY 162/162L.
This laboratory capstone course features a set of experimental projects designed to integrate concepts and techniques from the major divisions of chemistry, presenting chemistry as a unified science. Formal written laboratory reports are required. The course includes two three-hour laboratory meetings each week.

372. Problems in Chemistry II (2 hours)
Prerequisite: CHM 371.
A continuation of CHM 371, this laboratory capstone course features a set of experimental projects designed to integrate concepts and techniques from the major divisions of chemistry, presenting chemistry as a unified science. Formal written laboratory reports are required. The course includes two three-hour laboratory meetings each week.

395. Chemistry Seminar (1 hour)
Prerequisite: CHM 222
A seminar series consisting of meetings to discuss articles in all areas of chemistry from the current chemical literature. Students will prepare presentations on primary research articles and serve as discussion leaders. The course includes one one-hour seminar per week. This course may be repeated for a maximum of two hours of credit.

401. Senior Research I (1-2 hours)
Prerequisites: Senior status and Departmental approval.
Independent research directed by a faculty member. Students work toward laboratory research goals prepared in consultation with a faculty mentor. Written and oral presentations are required. The course includes approximately six hours in the laboratory each week.

402. Senior Research II (1-2 hours)
Prerequisites: CHM 401 and Departmental approval.
Independent research directed by a faculty member. Students work toward laboratory research goals prepared in consultation with a faculty mentor. Written and oral presentations are required. The course includes approximately three hours in the laboratory each week.

411. Advanced Inorganic Chemistry (2 hours)
Prerequisites: CHM 311, CHM 332, senior status and departmental approval.
A survey of the advanced chemical theories applied to the interpretation of the relationship between chemical structure and observable properties of inorganic materials, including quantum mechanical description of atomic and bonding models. Special attention is given to the structure and bonding, the characterization, and the representative chemistry of transition metal compounds. The course includes two one-hour lectures each week.

421. Advanced Organic Chemistry (2 hours)
Prerequisites: CHM 332 and 341, senior status and Departmental approval.
A course devoted to topics in organic chemistry more advanced than those covered in CHM 222 and centered upon the relationship between structure and reactivity of organic molecules. Mechanistic and synthetic strategies are discussed, utilizing original literature and experimental data as a basis. The course includes two one-hour lectures each week.

431. Advanced Quantum Chemistry (2 hours)
Prerequisites: CHM 331, senior status and Departmental approval.
A course devoted to topics in quantum chemistry more advanced than those covered in CHM 331. The principles of operators and observables are presented, along with eigenvalues, eigenvectors, superpositions, expectation values and matrix elements. Techniques from linear algebra will be applied to solving modern quantum mechanical problems, and modern computational methods will be used as appropriate. The course includes two one-hour lectures each week.

465. Biochemistry I (3 hours)
(Same as BIO 465)
Prerequisites: CHM 222 and BIO 210.
A course on the nature of the chemical and physiochemical properties of living organisms. Includes an overview of the synthesis and structure of biological macromolecules, enzyme kinetics, mechanisms of reactions, metabolism, and energy exchange. This course includes three one-hour lectures per week.
465L. Biochemistry I Laboratory
(Same as BIO 465L)
Corequisite: CHM/BIO 465.
Investigative laboratory component to complement CHM/BIO 465. Techniques used include electrophoresis, analysis of enzyme kinetics, chromatography, cen-
trifugation, and protein analysis and centrifugation. Experimental design and for-
mal laboratory writing are required. The course includes one four-hour laboratory each week.

466. Biochemistry II
(Same as BIO 466)
Prerequisite: CHM/BIO 465.
A continuation of CHM/BIO 465 covering the chemistry of cellular metabolism. Topics include biosynthesis and degradation of lipids, amino acids, and nucleotides; photosynthesis; the chemistry of DNA and RNA; and the concepts of molecular physiology. The course includes three one-hour lectures each week.

466L. Biochemistry II Laboratory
(Same as BIO 466L)
Corequisite: CHM/BIO 466.
Investigative laboratory component to complement CHM/BIO 466. The course focuses on the analytical tools used in the modern biochemical laboratory. Experimental design and formal laboratory writing are required. The course includes one four-hour laboratory each week.

481. Selected Topics in Chemistry (Subtitle)
(Same as BIO 481)
Prerequisite: CHM 331, CHM 332, senior status and Departmental approval.
A study of a topic in much greater depth than is done in the more general cour-
eses. The particular topic will be selected by joint consultation between the depart-
ment, the instructor, and the students registering for the course. The number of lectures and laboratories will depend on the topic.

CHRISTIANITY (CHR)
Richard Francis Wilson, Chair/Professor
Margaret Dee Bratcher and Walter Byron Shurden, Professors
Darlene Kaye Flaming and Robert Scott Nash, Associate Professors
Paul Allen Lewis and David Gregory Sapp, Assistant Professors
Janell Anne Cook Johnson and Bryan Jay Whitfield, Instructors

The curriculum of the Christianity Department is designed to achieve the fol-
lowing goals:

1. To develop in students a knowledge of and appreciation for the Christian tradition in particular and religion in general;
2. To expose students to the breadth and depth of theological inquiry through biblical studies, Christian history, Christian theology, and Christian ethics;
3. To sharpen students’ abilities to think logically, to read critically, to communicate effectively, both orally and in writing, and to act compassionately;
4. To afford students the opportunity to study the Christian tradition within the context of a liberal arts education so as to enhance personal and professional growth;
5. To assure that students have an adequate academic experience to pursue graduate theological education and future professional studies.

Unless otherwise stated, either CHR 101 or 150 is a prerequisite to all other courses in the Christianity Department. A major in Christianity consists of a minimum of 27 semester hours, including the following:

1. CHR 101 and 150;
2. CHR 250, which the department strongly advises to be taken in the sophomore year;
3. four courses to be taken from the following:
   a. one course in biblical studies, chosen from CHR 302, 305, 310, 315, or 380;
   b. one course in historical studies, chosen from CHR 210 or 370;
   c. one course in theological studies, chosen from CHR 300 or 320;
   d. one course in ethical studies, chosen from CHR 330, 335, or 363.

A major must have a minimum of 15 hours in courses numbered 300 and above.

Majors may attain Departmental Honors by fulfilling the following requirements: (1) attain a grade point average of 3.75 or above in the major; (2) complete the research and writing of a thesis under the direction of a member of the Christianity faculty, and have the thesis judged by a committee of the Christianity faculty (if the thesis merits recognition, 3 hours credit will be given for CHR 420); (3) pass an oral examination by a committee of at least three members of the Christianity faculty.

A minor consists of 15 semester hours, including CHR 101 and 150 and nine additional semester hours, six of which must be numbered 300 or above.

101. Old Testament (3 hours)
An introduction to the history, literature, and theology of the Old Testament.

150. New Testament (3 hours)

210. History of Christianity (3 hours)
An introduction to developments in Christian history from the first century to the present.

230. Religion and the American Black Experience (3 hours)
(Same as AFR 230)
A consideration of traditional Christian, secularized, and other religious manifestations of black culture in America, with emphasis upon the modern period.

250. Theological Research and Writing (3 hours)
An introduction to basic theological vocabulary, bibliography, library resources, and research methodologies with a rigorous emphasis on improving writing skills.

300. Introduction to Christian Theology (3 hours)
An introduction to the major topics in Christian theology. Issues explored include the nature of theological language and theological methods, the concept of revelation, the character of God, the character of humankind, the reality of sin, the significance of Jesus the Christ, the identity of the church, and the shape of Christian hope.
302. Biblical Interpretation (3 hours)
A study of the principles and methods by which the Bible is interpreted.

305. Old Testament Prophets (3 hours)
Prerequisite: CHR 101.
A study of the prophets of the Old Testament, including the nature and history of the prophetic movement in Israel and the messages of selected prophets. Emphasis will be given to Amos, Hosea, Isaiah, Jeremiah, Ezekiel, and Second Isaiah.

310. Jesus (3 hours)
Prerequisite: CHR 150.
An investigation of the Gospels’ portraits of Jesus in the light of other ancient literature, the world of Jesus, and scholarship about the Jesus of history.

315. Paul (3 hours)
Prerequisite: CHR 150.
A study of the life and thought of Paul based on Acts and the letters of Paul in their literary, historical, social, and religious contexts.

320. New Testament Theology (3 hours)
An introduction to New Testament theology, with emphasis on such themes as the Kingdom of God, the person and work of Jesus, and the nature of the church.

325. Contemporary Christian Theology (3 hours)

330. Approaches to Christian Ethics (3 hours)
An exploration of Christian ethics that focuses on classic texts drawn from a broad range of church history. Although the course will deal with some specific moral issues, the focus will be on how thinkers have used insights from the Bible, theology, philosophy, the sciences, and human experience to address a range of questions that may include: “What does it mean to be moral?” “Why be moral?” “How do we know what is moral?” “How do we become moral?” “How can we make responsible decisions?”

331. Philosophy of Religion (3 hours)
(See PHI 331)
A study of some of the major problems that arise in the encounter between philosophy and religious belief.

332. History of Church Music (2 hours)
(See MUS 332)
A chronological and stylistic survey of various forms of church music conducted within the context of church history. Areas covered will include the early Christian era and the rise of hymnology, the Reformation and Counter-Reformation, developments resulting from the evolution of various Protestant groups, text-music relationships, and trends of church music in the 20th century.

335. Christian Ethics In America (3 hours)
An exploration of Christian ethics that focuses on the implications of Christian faith for life in civil and political society in the United States. The course will
engage readings in Christian ethics since the 1960s that address a variety of issues that may include character, race, economic justice, the environment, family/marriage, gender, sexuality, the professions, politics, and violence. The course may also require participation in service-learning opportunities.

350. World Religions (3 hours)
An introduction to the thought and practice of the major world religions.

353. Religious Groups in America (3 hours)
An examination of the history, theology, and numerical status of various religious groups in contemporary America with primary focus on Christian denominations.

363. Women and Christianity (3 hours)
(Same as WGS 363)
A biblical, historical, and theological examination of the role of women within the Christian tradition.

365. The Baptist Tradition (3 hours)
A study of the Baptist identity and its free-church character in the light of Baptist history.

370. History of Christian Theology (3 hours)
A study of the major Christian thinkers and the impact of their ideas in the development of Christian theology.

380. Biblical Hebrew (4 hours)
An extensive introduction to biblical Hebrew, covering grammar, vocabulary, and readings from the Old Testament. The schedule includes a one-hour per week laboratory session. This course does not count toward credit in foreign languages.

400. Supervised Independent Reading (1-3 hours)
An intensive study of a topic in religion, limited in scope, for the purpose of developing a bibliography, concentrated reading, and tutorial discussion with the instructor.

410. Seminar on Selected Topics in Religion (1-3 hours)
An in-depth investigation of a significant topic in religion not available through other departmental offerings.

420. Directed Independent Research (3 hours)
Prerequisites: Junior or senior status and departmental approval.
Requirements include selection of a problem area or project, survey of relevant literature, research, and formal report of findings.

CLASSICAL LITERATURE (CLA)
For a description of the courses offered in Classical Literature, see the FOREIGN LANGUAGE and LITERATURES section.

COMMUNICATION AND THEATRE ARTS (CTA) INCLUDING JOURNALISM (JRN)
Cynthia Mary Gottshall, Chair/Professor
Frank Joseph Macke, Paul Francis Oppy, Jr. and Marian Frances Zielinski, Professors
John Joseph Chalfa, Associate Professor
Laurie Lattimore and Kevin Cummings, Assistant Professors
The Department of Communication and Theatre Arts presents an organized approach to an understanding of our signs, symbols, codes, media, and modes of communication, mass communication, and theatrical performance. The program uses both theoretical and practical strategies to produce communication and theatre generalists. It is intended to satisfy the various interests of students seeking a strong liberal arts background as well as those who have technical and professional concerns in the field. The Department's co-curricular programs, the Mercer Debate Society and Mercer University Theatre, actively involve students in intercollegiate debate competition and in theatre performance.

The Communication and Theatre Arts major consists of a minimum of 27 hours. These must include CTA 200 and 400; a choice of 300 or 301, and additional courses numbered 201 through 495 to equal the minimum requirement. At least 15 hours in the major must be in courses numbered 300 or above.

Majors may attain Departmental Honors in communication by meeting the following requirements: (1) achieve an over-all grade point average of 3.5, and (2) achieve a grade point average of 3.5 in the Communication major.

A minor in Communication and Theatre Arts consists of a minimum of 15 hours including CTA 200, and 12 hours of CTA courses numbered 201 through 495, selected in consultation with the chair of the department. At least 6 hours must be in courses numbered 300 or above.

The Theatre major consists of a minimum of 30 hours. These must include CTA 115, 218, 235, 302, 326 or 327, and 337. Students must choose three additional courses from among: CTA 276, 326 or 327, 336, 338, 371, 490, and 495, and one from among: ENG 233, 332, 333, 364, and 367. CTA 292 does not count toward the major.

All theatre majors will design a creative major project in consultation with a Theatre faculty member. The project will reflect the classes and experiences of the students in their major classes and in the theatre. Students must submit a typed project proposal to the Theatre faculty for their approval at least one year prior to their expected date of graduation. After the completion of the project, the students will meet with the Theatre faculty and staff to report on their experiences and to engage in a critique of the project. Projects will be evaluated by the Theatre faculty and graded Pass with Distinction, Pass, or Fail.

In order to earn departmental honors in Communication and Theatre Arts, a Theatre major must meet the following requirements: (1) a minimum overall grade point average of 3.50, (2) a minimum grade point average of 3.50 in courses taken in CTA, and (3) a grade of Pass with Distinction on the major project.

The Theatre minor consists of CTA 115, 218 or 235, plus three additional courses from among the following: CTA 326 or 327, 336, 338, 371, 372, and 490.

**JOURNALISM**

The Journalism major consists of a minimum of 30 hours, including as core courses JRN 220, 322, 324, 330, 331, 310, 400, and 401. One course must be selected from CTA 260, 301, or CTA 370, and one course must be selected from JRN 232, 381, or CTA 276.

The minor in Journalism consists of a minimum of fifteen credit hours, including JRN 220 and 330, and nine credit hours from JRN 322, 324, 310, 331, 400, 401.
The Media Studies major consists of a minimum of 27 hours, including as core courses CTA 165, 276, 301, 310, 360, and 400. One course must be selected from CTA 373 or 401, and one course must be selected from 272 or 372. Choose one communications elective from courses numbered CTA 200-495 or JRN 220-495, in consultation with advisor.

115. Introduction to Theatre (3 hours)
A study of the nature of the art of theatre, its evolution, and its importance to the development of human relationships and culture. This course will include a brief survey of theatre history, an introduction to script analysis, and an exploration of each facet of theatre production, including acting, directing, and design.

165. Introduction to Mass Media (3 hours)
(Same as JRN 101)
A study of the nature and history of mass communications, including print, broadcast, and online media.

200. Introduction to Communication (3 hours)
An examination of concepts, issues, and methods in the field of communication. The course focuses on themes of current interest and on fundamental research, inquiry, critical and creative thinking, and analytical skills.

218. Beginning Acting (3 hours)
Basic experience in the fundamentals of acting for the stage and the camera. Emphasis will be given to movement, voice/diction, improvisations, scene analysis, and performance techniques.

235. Stagecraft (3 hours)
A survey of the materials, tools, and techniques used in the drafting, construction, and painting of scenery for the stage and screen. This is a lecture/laboratory class.

250. Interpersonal Communication (3 hours)
A study of the theories of interpersonal communication with emphasis on the application of these principles.

251. Group Communication (3 hours)
A study of theoretical and practical issues arising from human communication within the context of the group. The student will examine the impact of power, leadership, and member participation as manifested in group decision making, problem solving, and conflict management.

256. Public Speaking (3 hours)
A study of rhetorical theory with an emphasis on preparation and presentation of different types of speeches. The course enables the student to transmit meanings with accuracy, concreteness, and clarity; to communicate in ways that resolve misunderstanding; to express clear preferences and justify them; to advocate decisions in keeping with personal integrity and the rights of others; and to discover and promote ethical standards in public address.

260. The Rhetoric of Contemporary Issues (3 hours)
This course examines the way that contemporary issues are shaped by language and symbol use. It borrows basic theoretical principles from rhetorical studies, argumentation, and persuasion to provide students with the ability to think critically and speak persuasively about the issues of the day.
272. Introduction to Film (3 hours)
An introductory course in which the forms and conventions of films are studied. An examination of the basic characteristics of film, with some attention to its relationship to written literature, traditional dramatic forms, and other forms of mass communication. Laboratory required.

276. Video Production (3 hours)
An introductory course in the fundamentals of video production designed to familiarize the student with the elements involved in the design and execution of video productions. Students plan, shoot, and edit production assignments aimed at improving both their technical skills and their aesthetic judgments. Lab activities complement classroom instruction.

290. Intercollegiate Debate (1 hour)
Prerequisite: Consent of instructor.
Academic credit for those who actively participate in competitive intercollegiate debate. (1 hour credit for each semester of satisfactory participation.)

292. Theatre Practicum (1 hour)
Prerequisite: Consent of instructor.
Academic credit for those who execute significant creative assignments in theatre productions. (1 hour credit for each semester of satisfactory participation.)

300. Communication and Culture (3 hours)
Prerequisite: CTA 200 or permission of instructor.
An examination of the significance of power and culture in the formation of communication patterns, in the performance of communication roles, in the representation of concepts, and in the interpretation of symbols and signs. The course focuses on how communication creates and builds culture, and then is in turn created by culture.

301. Media Criticism (3 hours)
This course examines television programs and films as cultural artifacts from a variety of critical perspectives. Examination of television and film reviews; auteur and genre criticism, mythic and ideological criticism, feminist criticism, and cultural criticism.

302. Directing (3 hours)
A study of the principles and methods of direction for the stage and the camera. Special attention will be given to script analysis, movement, picturization, and the needs of the actor. Each student will direct a one-act play or scene for stage or television.

310. Research Methods (3 hours)
(Same as JRN 310)
Prerequisite: Consent of the instructor.
This course will familiarize students with major research techniques including content analysis, survey research, data analysis, and field studies as practiced by reporters, editors, and public relations decision-makers.

315. Oral Interpretation (3 hours)
Experience developing methods and techniques for vocal and physical presentation of an oral reading. Methods of selection, analysis, and execution will be studied through performance.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>326.</td>
<td>A Survey of Theatre History I</td>
<td>(3 hours)</td>
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<tr>
<td></td>
<td>A survey of theatre history from its primitive origins to 1750.</td>
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<tr>
<td>327.</td>
<td>A Survey of Theatre History II</td>
<td>(3 hours)</td>
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<td></td>
<td>A survey of theatre history from 1750 to the present, with units on Chinese, Japanese, and Indian theatre.</td>
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<tr>
<td>336.</td>
<td>Lighting for Stage and Screen</td>
<td>(3 hours)</td>
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<td></td>
<td>The study of the physics and principles of lighting design for stage, television, and film. Emphasis will also be given to script analysis and interpretation into the medium of light. A lecture/laboratory class.</td>
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<tr>
<td>337.</td>
<td>Scene Design</td>
<td>(3 hours)</td>
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<td></td>
<td>The study of the principles of set design for stage and film. Students will analyze dramatic literature, research period style, and develop renderings, floor plans, and three-dimensional models for various plays.</td>
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<tr>
<td>338.</td>
<td>Costume Design</td>
<td>(3 hours)</td>
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<td></td>
<td>The study of the social and cultural milieu that influenced historical dress and its research application to designing costumes for theatre and film. Emphasis will also be placed on designing costume plates for a particular play, and on the development of skills necessary in costume construction, including drafting and draping patterns, cutting, and stitching, as well as fabric painting and dyeing. A lecture/laboratory class.</td>
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<tr>
<td>353.</td>
<td>Communication in Organizations</td>
<td>(3 hours)</td>
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<td></td>
<td>A study of organizational theory and its application to professional situations. The focus is the development of knowledge and skills that enhance the communicator's effectiveness in organizational settings.</td>
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<tr>
<td>357.</td>
<td>American Public Address</td>
<td>(3 hours)</td>
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<td></td>
<td>A course in theory, composition, delivery, and criticism of the public speech. Emphasis is placed on the historical and critical role of public address in American political, religious, professional, and intellectual life.</td>
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<tr>
<td>358.</td>
<td>Argumentation</td>
<td>(3 hours)</td>
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<td></td>
<td>A study of the principles of argumentation and their application to communication. Focus is on the ability to use critical thinking skills in developing and supporting a reasoned argument.</td>
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<tr>
<td>360.</td>
<td>Persuasion</td>
<td>(3 hours)</td>
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<td>This course examines the importance of persuasion in social and cultural interactions, interpersonal relationships, politics, religion, and mass media. The focus is on developing a critical response to persuasive messages.</td>
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<tr>
<td>370.</td>
<td>Public Relations: Theory and Methods</td>
<td>(3 hours)</td>
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<td><em>(Same as JRN 370)</em></td>
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<td></td>
<td>This course will address the scope and modern role of public relations with an emphasis on case studies, lectures, and experimentation with major public relations tools and practices.</td>
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<tr>
<td>371.</td>
<td>Beginning Playwriting</td>
<td>(3 hours)</td>
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<td><em>(Same as ENG 371)</em></td>
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<td></td>
<td>The goal of this course is to introduce the student to the conventions and techniques of playwriting. Students will complete exercises leading to the creation of an original one-act play.</td>
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</table>
372. Screenwriting (3 hours)
(\textit{Same as ENG 372})
The art, craft, and business of screenwriting from theoretical and practical perspectives. Topics include: the nature of the screenplay formats and structures; creation and development of premise, plot, character, and action; scene writing; adaptation issues; place of the screenwriter in the collaborative process of filmmaking; and marketing strategies.

373. Theory and History of Film (3 hours)
Prerequisite: CTA 272 or consent of instructor.
A historical overview of the major movements and theories, as well as technological innovations, that have created twentieth century film art. Laboratory required.

381. Online Journalism (3 hours)
Prerequisite: JRN 331 or consent of the instructor.
This course will bring students into close collaboration with industry professionals to provide hands-on perspectives and working examples of interactive journalism. Students will explore online journalism's ongoing evolution, apply tools of the trade, and interact with experts in the field. Lab activities will complement classroom instruction.

400. Communication Ethics (3 hours)
(\textit{Same as JRN 400})
Prerequisite: Junior or senior status or consent of the instructor.
An examination of ethics in communication with consideration given to conflicting modes of communication in contemporary society.

401. Media Law (3 hours)
(\textit{Same as JRN 401})
Prerequisite: Consent of the instructor.
This course is designed to give students an understanding of the legal environment that affects mass communication professionals, including journalists, public relations practitioners and advertising professionals. The course examines the historical development of the notion of free expression, explores the legal limitations on expression, and seeks to develop a framework for evaluating the fluid legal landscape that communicators face.

490. Special Topics in Communication and Theatre Arts (3 hours)
Prerequisite: Junior or senior status or consent of instructor.
A study of some significant topic in communication or theatre arts not covered in the regular department offerings. The specific topics will be chosen according to needs and interests. May be taken more than once for a maximum of 9 hours credit.

495. Directed Independent Study (1-6 hours)
Prerequisite: Junior or senior status or consent of the instructor.
An advanced course in theory and research in communication and/or theatre arts. The student must submit a proposal for research during the semester prior to enrolling in the course. May be repeated with different projects/topics, but total credit may not exceed 6 hours.

498. Internship (1-9 hours)
Prerequisite: Consent of department chair.
Provides the student with practical experience under departmental supervision.
May be taken only by Communication and Theatre Arts majors or minors with junior or senior standing. During the internship, students are required to consult frequently with their department advisor. May be taken more than once for a maximum of 9 hours credit. Graded on a S/U basis. Does not count toward the major or minor.

**COMPUTER SCIENCE (CSC)**

David L. Cozart, *Chair/Professor*
Robert A. Allen, Andrew Digh, Andrew J. Pounds, and Laurie White, *Associate Professors*
Esmail Bonakdarian, Marshall Rich, and Martin Zhao, *Assistant Professors*
Jane Ann Williams, *Director, Professional Certification Program*

The Computer Science Department offers majors leading to the Bachelor of Science or the Bachelor of Arts degree. Students who wish to pursue either program should consult with the department chair as early as possible to assure an appropriate sequencing of courses.

The Bachelor of Science degree program in computer science is accredited by the Computing Accreditation Commission (CAC) of the Computer Sciences Accreditation Board (CSAB), a specialized accrediting body recognized by the Council for Higher Education Accreditation (CHEA). Students who complete this program will obtain a significant degree of technical competence and breadth of exposure to segments of the discipline and will supplement their program with courses from mathematics and science. They will be prepared to continue their education in a graduate program or to obtain employment as computer science professionals. Forty-three semester hours of computer science courses are required for this degree.

The Bachelor of Arts degree program is appropriate for students who have an interest in computer science but wish to pursue another major (or minor) course of study as well. This program is especially attractive to students who wish to study both mathematics and computer science, or for students who wish to focus on computer applications in business, education, the arts, or other areas. Twenty-seven hours of computer science courses are required for this degree.

Both the B.S. and B.A. degree programs include programming languages, algorithms and data structures, software methodology and tools, and computer hardware. This foundation supports further study in numerous advanced courses such as computer graphics in which students develop interactive graphics packages using equipment in the Graphics Laboratory, digital logic design in which students build their own microcomputer from integrated circuit chips, artificial intelligence in which students learn about computational processes that model human knowledge and reasoning, and software engineering in which students learn to design and to maintain large software projects.

Students who are majoring in computer science are required to take the Major Field Achievement Test in computer science during their senior year. Students are encouraged to participate in the Department's Undergraduate Research Program where they work closely with a faculty member on a research problem in computer science. Results of students' work are presented at the local, regional, national, or international level.

Students may enhance their experience in computer science by participating in the Computer Science Cooperative Program. This program allows students to
gain computer-related experience through local businesses and industries. Those interested in this program should consult with the department chair.

The Computer Science Department also offers the Bachelor of Science and the Bachelor of Arts in Information Science and Technology. IST is a newly emerging discipline with its theoretical foundations rooted in computer science, mathematics, and other scientific disciplines. For a complete description of this program, see the listing for Information Science and Technology (IST) elsewhere in the Bulletin.

The Computer Science Department provides course work in the area of Computer Information Systems for the School of Business. Students interested in combining computer science and business should consider this program of study.

The Computer Science Department provides course work in the area of Computer Engineering for the School of Engineering. Students interested in designing both software and hardware should consider this program of study.

**Requirements for the B.S. degree:**

1. **Computer Science Required Courses (31 hours):**
   - CSC 204 (4 hours)  CSC 330 (3 hours)
   - CSC 205 (4 hours)  CSC 340 (3 hours)
   - CSC 245 (3 hours)  CSC 460 (3 hours)
   - CSC 322 (4 hours)  CSC 480 (3 hours)
   - CSC 323 (4 hours)

2. **Computer Science Electives.** At least one course from each of the following groups (12 hours):
   a. CSC 310 or 312
   b. CSC 324 or 360
   c. CSC 380 or 450
   d. One additional (3 hour) CSC course numbered 310 or above (May select a second course from A-C above)

3. **Mathematics (15 hours):**
   - MAT 191 (4 hours)
   - MAT 192 (4 hours)
   - MAT 225 (4 hours)
   - MAT 320 (3 hours)

4. **Lab Science Sequence:**
   - BIO 210 and BIO 220 (10 hours), or
   - CHM 111 and CHM 112 (8 hours), or
   - ESC 105 and ESC 200 (8 hours), or
   - ESC 105 and ESC 210 (8 hours), or
   - ESC 105 and ESC 220 (8 hours), or
   - PHY 161, 161L and PHY 162, 162L (8 hours)

5. **Laboratory Science Elective:**
   Select one additional laboratory science course, chosen in consultation with the Computer Science faculty.

6. **Science/Mathematics Elective:**
   Select one additional laboratory science course or one additional mathematics course, chosen in consultation with the Computer Science Faculty.
7. Satisfactory completion of the Major Field Achievement Test in Computer Science is required.

Requirements for the B.A. degree:

1. Computer Science Courses (15 hours):
   - CSC 204 (4 hours)
   - CSC 205 (4 hours)
   - CSC 245 (3 hours)
   - CSC 322 (4 hours)

2. Computer Science Electives (at least 12 hours)
   At least twelve hours of additional CSC courses numbered 310 or above.
   No more than a total of four of these credits may come from CSC 485 and CSC 499 and only with prior approval by the department.

3. Mathematics (12 hours):
   - MAT 191 (4 hours)
   - MAT 192 (4 hours)
   - MAT 225 (4 hours)

4. Satisfactory completion of the major Field Achievement Test in Computer Science is required.

Requirements for the Minor:

1. Computer Science Required Courses (8 hours)
   - CSC 204 (4 hours)
   - CSC 205 (4 hours)

2. Computer Science Electives (9 hours)
   Three CSC courses selected from CSC 245 and/or courses numbered 310 and above

Departmental Honors

Departmental Honors in computer science may be earned by students who fulfill these requirements: (1) achieve a 3.5 GPA in CSC courses that apply to the major, (2) prepare a proposal for work on a research project that goes beyond normal coursework two semesters prior to graduation and have it approved by two members of the department, (3) complete the research project under the direction of these two faculty members, and enroll in three semester hours of CSC 499 (Undergraduate Research), (4) prepare a written report of publishable quality using the format of the “Association for Computing Machinery” and present the results of the project to faculty and students at an announced time, and (5) receive final approval of the work by the departmental faculty.

125. Introduction to Computing (3 hours)
An introduction to computer systems with emphasis on the central processing unit, memory units, input and output devices, data communications, operating systems, computer software, programming concepts, and the impact of computers on society. Students will learn to use popular software packages for applications such as word processing, spreadsheets, and data base systems.
204. Programming I (4 hours)
Prerequisite: Mathematics competency.
Students will gain an understanding of computer science foundations by learning how to program in a modern object-oriented language. The basic topics to be covered include structured and object-oriented programming, basic syntax and semantics, simple data types, control structures, classes, arrays, and graphics. Students will also “experiment” with the computer, and learn how to design, test, and debug programs.

205. Programming II (4 hours)
Prerequisite: CSC 204.
A continuation of CSC 204 with an emphasis on advance object-oriented principles. Topics include inheritance, polymorphism, graphical user interfaces, event-driven programming, recursion, and simple data structures (lists, stacks, queues, and binary search trees).

206. Visual Programming (3 hours)
Prerequisite: CSC 204.
This course offers an introduction to window-based, visual programming. Emphasis will be on the object-oriented, event-driven languages such as Visual Basic, Visual C++, Delphi, and Access. Students will learn how to create objects, change their properties, and develop appropriate event handlers.

212. Programming Language (subtitle) (1-3 hours)
Prerequisite: Competence in a programming language.
Introduction to a programming language or languages not taught elsewhere in the curriculum. Students will be expected to demonstrate sufficient skills in the language(s) studied. Can be repeated for a maximum of 6 hours.

245. Data Structures and Algorithm Analysis (3 hours)
Prerequisite: CSC 205 and MAT 141 or 191.
A rigorous study of the implementation of different data structures, and an analysis of the time and space complexity of their associated algorithms. Topics will include dynamic memory, trees, hashing, heaps, sorting, and graphs.

285. Topics in Computer Science (1-4 hours)
Prerequisite: Consent of the instructor.
Variable credit, 1-4 hours. May be repeated with different topics.

290. Theory and Application of Multimedia (3 hours)
An introduction to the technical aspects of computer-based multimedia. Technical and hardware issues as well as theory and design concepts are covered. Students will design and build a multimedia presentation.

310. Introduction to File Structures (3 hours)
Prerequisite: CSC 245.
A study of the different data structures and algorithms that are appropriate for the placement and organization of data on secondary storage. Physical characteristics of files on different large storage devices are discussed. Concepts studied include indexing, external sorting, B-trees, and extendible hashing. Programming projects related to file processing are required.

312. Database Systems (3 hours)
Prerequisite: CSC 245.
A study of both logical and physical organization of computer database systems, including DBMS languages, architecture, and interfaces, data modeling, integrity, and security. Emphasis will be placed on relational models, languages, and systems.

**315. Computer Graphics I** (3 hours)
Prerequisite: CSC 205.
Corequisite: CSC 245.
A survey of the basic hardware components and the software techniques used in the discipline of computer graphics. Topics to be covered will include two and three-dimensional geometry, matrix representations of transformations, clipping, perspective, and stereoscopic views. Each student will be required to complete a project utilizing a graphics workstation.

**317. Computer Graphics II** (3 hours)
Prerequisite: CSC 315.
Advanced topics in computer graphics such as viewing in three dimensions, representation of three-dimensional surfaces and shapes, hidden line removal and realism using shading and color. The design and implementation of a graphics project will be required.

**322. Computer Organization and Assembly Language** (4 hours)
Prerequisite: CSC 204.
An introduction to the basic organization of a digital computer. Topics will include basic logic design at the circuit level, data coding and representations, functions of large-scale components of a computer system, and the mechanics of information transfer and control within a digital system. Students are introduced to practical design, breadboarding, and testing of digital circuits in the Hardware Laboratory.

**323. Computer Organization and Logic Design** (4 hours)
Prerequisite: CSC 322.
Advanced topics in computer organization and logic design at the circuit level. Topics will include basic logic design at the circuit level, data coding and representations, functions of large-scale components of a computer system, and the mechanics of information transfer and control within a digital system. Students are introduced to practical design, breadboarding, and testing of digital circuits in the Hardware Laboratory.

**324. Digital System Design** (3 hours)
Prerequisite: CSC 323.
Corequisite: CSC 322.
A continuation of the hardware design process begun in CSC 323.

**330. Organization of Programming Languages** (3 hours)
Prerequisite: CSC 205.
A study of the concepts and issues underlying the design and implementation of programming languages. Topics considered will be the objects of computation, grammars, ambiguity, control structures, scope and typing of variables, block-structured languages, precedence, recursion, and input/output facilities. Examples will be drawn from a high-level language.

**335. Numerical Methods** (3 hours)
( Same as MAT 335)
Prerequisites: MAT 192 and ability to write programs in a high-level computer language.
A study of numerical methods for the solution of mathematical problems and computer application of those methods. Topics will include: methods such as the bisection algorithm and fixed point iteration for the solution of equations with a single variable, interpolation and polynomial approximation, numerical differentiation and integration, solution of systems of linear equations, and least squares approximation.

340. Introduction to the Theory of Computing (3 hours)
Prerequisite: MAT 225 and ability to write programs in a high-level computer language.
Fundamentals of computing theory are developed on an intuitive level. Topics studied include finite automata, context-free grammars, Turing machines, and recursive functions. The notion of undecidable or noncomputable problems based on the Turing machine model is discussed briefly.

360. Theory of Data Communications (3 hours)
Prerequisite: CSC 205.
Consideration of the design of communication line characteristics, modems, synchronous and asynchronous line protocols, error detection and correction schemes including polynomial codes, basic multiplexing, and concentration.

380. Artificial Intelligence (3 hours)
Prerequisites: CSC 245, MAT 225.
An introduction to the problem domains of artificial intelligence and to the principles and techniques used to design systems that acquire knowledge and demonstrate intelligent responses. Particular areas studied include deterministic and heuristic search techniques appropriate for large problem spaces, formal methods of knowledge representation and logical reasoning, natural language understanding, and neural nets.

450. Compiler Construction (3 hours)
Prerequisite: CSC 245, 322, and MAT 225.
A study of basic techniques of compiler design and implementation including formal description of syntax and semantics, lexical analysis, grammars, syntax analysis, intermediate code, generation of object code, relocation, symbol tables, error detection, and optimization. Students will be engaged in a compiler writing project.

460. Operating Systems (3 hours)
Prerequisite: CSC 245, 322, and MAT 225.
A survey of functions of an operating system and the algorithms used in its implementation. Input/output programming, interrupt processing, memory management, demand paging, segmentation, processor management, scheduling, synchronization, multiprocessing, device management, dead-lock avoidance, information management, and interdependencies.

480. Software Engineering (3 hours)
Prerequisite: CSC 245.
A study of current techniques used in the development of large-scale software projects. Topics include requirements analysis, functional specification, systems design, implementation, testing, and maintenance.

485. Topics in Computer Science (Subtitle) (1-3 hours)
Prerequisite: Consent of the instructor.
May be repeated with different topics, but total credit may not exceed 6 hours.
499. Undergraduate Research  (1-3 hours)
Prerequisite: Consent of the instructor.
Individual research projects in computer science are planned, performed, and presented in written and oral form. Significant student results will be submitted to a conference or a journal. Projects are selected in consultation with a CSC faculty member. The course may be repeated, but total credit may not exceed 6 credit hours. This course is typically taken in conjunction with an honors project. Graded S/U.

CONTINENTAL LITERATURE (CON)
For a description of the courses offered in Continental Literature, see the heading: FOREIGN LANGUAGES AND LITERATURES in this Bulletin.

CRIMINAL JUSTICE (CRJ)
For a description of the program of study in this area, the requirements for the minor, and of the courses offered, see the heading: SOCIOLOGY in this Bulletin.

EARTH SCIENCES (ESC)
For a description of the courses offered in Earth Sciences, see the heading: PHYSICS and EARTH SCIENCES in this Bulletin.

ECONOMICS (ECN)
(See also EUGENE W. STETSON SCHOOL OF BUSINESS AND ECONOMICS for a description of the Bachelor of Business Administration degree. For that degree, a Managed Academic Path to Success program of study can be structured with an emphasis in Economics.)
Charles Haynes Andrews, Chair/Professor
William Stewart Mounts, Jr., and James R. Marchand, Professors
Allen Kenneth Lynch, Associate Professor
Scott Alex Beaulier, Assistant Professor

The Economics Department offers a Bachelor of Arts degree that provides students with a framework for examining the world in which they live and work. Economics is a way of thinking, developed by studying the foundations of microeconomic and macroeconomic theories and by applying them to various contemporary issues and policies. The economics major prepares students for entry into professional positions in private firms, government, or not-for-profit organizations, and it creates a foundation for successful future graduate studies in many areas. Students may take no more than 45 semester hours within the Department.

Majors may attain Departmental Honors by attaining a grade point average of 3.75 or higher in all courses taken in the major (transfer students must attain a 3.75 or higher grade point average on all courses taken at Mercer in the major and a combined grade point average of 3.75 or higher on all courses taken in the major at Mercer and at other institutions).

Requirements for an economics major: MAT 191 or 141 and MAT 226 or 320 are required of all majors. The major consists of 27 semester hours: ACC 204, ECN 150, 151, 301, 302, 303, and three additional economics courses selected with the approval of the department chair. At least 15 hours must be completed in economics courses numbered above 300. In addition, students must sit for an oral
examination during the last semester of their senior year. Students should see the Discipline Coordinator (in the Stetson School of Business and Economics) to schedule a time for the exam.

Requirements for a minor in economics: The minor consists of ECN 150 and 151, MAT 226 or 320, and three elective courses from the Department of Economics, including 6 hours in courses numbered 300 or above. The elective courses should be chosen in consultation with the chair or other faculty within the Department.

Courses indicated by (Atl) at the end of the description normally are offered only on the Cecil B. Day Campus in Atlanta.

150. Principles of Microeconomics (3 hours)
Prerequisite: Mathematics competency or completion of a college mathematics course.
A study of the basic tools of economic analysis and principles necessary to appreciate economic relationships, business behavior, and consumer behavior. Special emphasis will be given to the areas of supply and demand, marginal analysis, and the theory of the firm.

151. Principles of Macroeconomics (3 hours)
Prerequisite: Mathematics competency or completion of a college mathematics course.
The study and analysis of national income accounting, income determination theory, money and monetary policy, fiscal policy, international trade, and the theory of economic growth. Special attention will be given to current economic conditions and trends.

301. Money, Credit, and Banking (3 hours)
Prerequisites: ECN 150, 151, and junior status (or consent of instructor).
A functional study of monetary, banking, and credit structures; including a critical examination of monetary theory and policy recommendations.

302. Intermediate Microeconomic Theory (3 hours)
Prerequisites: ECN 150, 151, and junior status (or consent of instructor).
A study of price and distribution theory relevant to households, firms, and industries in perfect and imperfect competition. Theories of factor prices and general equilibrium are also examined.

303. Intermediate Macroeconomic Theory (3 hours)
Prerequisites: ECN 150, 151, and junior status (or consent of instructor).
A study of the forces determining the level of income, employment, and prices. Monetary theory and theory of economic fluctuations are reviewed, and public policies dealing with level of income and with aggregate economic welfare are examined.

353. Introduction to Econometrics (3 hours)
Prerequisites: ECN 150, 151; MAT 141 (or 191 and), 226 (or 320), and junior status (or consent of instructor).
A study of the methods of empirically verifying economic theory. Statistical inference applied to economic models, both macro and micro. Estimation of single and multiple equation models. A partial listing of topics covered includes: stochastic equations, residuals, parameter estimation via least squares and other methods, the coefficient of determination, multicollinearity, serial correlation, the identifica-
tion problem, and estimation of simultaneous equation macro models of the U. S.
economy. (Mac)

432. Urban and Regional Economics (3 hours)
Prerequisites: ECN 150, 151, and one ECN course numbered 300 and higher; or permission of instructor.
A study of poverty, housing, land use, transportation, and public services, with special references to social problems arising from the uneven distribution and immobility of resources. (Mac)

441. International Economics (3 hours)
Prerequisites: ECN 150, 151, and one ECN course numbered 300 and higher; or permission of instructor.
A study of the theory and mechanisms of international trade, and the international monetary mechanism. Barriers to the movement of goods and services and recent developments in the international organizations aimed at relaxing restrictions are also studied. Credit may not be earned in both ECN 441 and ECN/FIN 444. (Mac)

443. Labor Economics (3 hours)
Prerequisites: ECN 150, 151, and one ECN course numbered 300 and higher; or permission of instructor.
A study of the major problems of the United States and the social and economic policies affecting the labor movement; the problems of labor organization and trade unionism; recent and pending legislation in the states and nation. (Mac)

444. International Economics and Finance (3 hours)
(Same as FIN 444)
Prerequisites: ECN 150, 151, one ECN course numbered 300 and higher; or permission of instructor.
The study of foreign exchange, international money markets and institutions, balance of payments problems, capital movements, foreign investments problems, and objectives of international monetary policy. Credit for this course precludes also earning credit for either FIN 451 (International Finance) or ECN 441 (International Economics). (Atl)

445. Industrial Organization (3 hours)
Prerequisites: ECN 150, 151, and one ECN course numbered 300 and higher; or permission of instructor.
A study of industrial organization and government regulation of business enterprise; market structures, conduct, and performance; antitrust. (Mac)

448. Seminar in Economic Growth (3 hours)
Prerequisites: ECN 150, 151, and one ECN course numbered 300 and higher; or permission of instructor.
A seminar in economic growth. Areas of emphasis are as follows: nature of growth; what is not growth; importance of growth; the physical environment issue; growth over time and among nations; sources of growth; theories of growth and supporting empirical evidence; interaction of growth with economic stability and income distribution; and institutional, monetary, and fiscal policies related to growth. (Mac)

452. Environmental Economics (3 hours)
(Same as ENV 452)
Prerequisites: ECN 150, 151, and one ECN course numbered 300 and higher; or permission of instructor.

An examination of the interrelationship which exists between the physical environment and the economic system. Models of general equilibrium analysis, welfare economics, and property rights are developed; these are supplemented by readings from scholarly journals. Emphasis is placed upon the issue of free markets' ability to allocate scarce environmental resources efficiently (including intertemporally) among competing uses. (Mac)

477. Special Topics in Economics (Subtitle) (1-3 hours)
Prerequisites: ECN 150, 151, and one ECN course numbered 300 and higher; or permission of instructor.

An intensive study of some significant topic in economics not otherwise covered in the School's course offerings. Topics will be chosen in consultation with students who register for the course.

478. Research in Economics (Subtitle) (1-3 hours)
Prerequisites: ECN 150, 151, and one ECN course numbered 300 and higher; or permission of instructor.

A research-oriented course focusing on an important topic in economics not otherwise covered in the School's offerings. The course features student research, independent study, and discussion.

482. Economics Senior Oral Examination (0 hours)
Required economics senior oral examination. Students should enroll in this course during the semester they plan to take the oral examination required of economics majors. Graded on S-U basis.

494. Honors Thesis (3 hours)
Prerequisite: Admission to the Honors Program.

Individual research leading to the completion of an honors thesis. Students admitted into the Honors Program register for one credit hour in each of three successive semesters (including summer). Only grades of satisfactory or unsatisfactory will be assigned.

ENGLISH (ENG)

Gary A. Richardson, Interim Chair/Professor
Stephen Edward Bluestone, Michael McConnell Cass, Chester J. Fontenot, Jr., Mary Alice Morgan, Diana Ruff Stege, and John Joseph Stege, Professors
Jonathan C. Glance, Gordon R. Johnston, Andrew Silver, and Anna K. Silver, Associate Professors
Tia Gafford Williams, Assistant Professor

The English Major Literature Track consists of ENG 263, 264, 265, 301, either 332 or 333, one historical period course (ENG 330, 335, 340, 342, 346, 347, 348, 352, 353, 357, 358, 359, 360), one literary form course (ENG 329, 344, 349, 354, 362, 364, 366, 367, 368, 369, 382), a senior seminar (ENG 480S), and one upper division elective.

The English Major Creative Writing track consists of the following common requirements: ENG 263, 264, 265, 301, and 307, and one other upper-level literature course. Additional requirements are: for fiction and poetry writing-track students, ENG 310; for Fiction-writing Emphasis, ENG 312, and 485 (Sams Fiction
Seminar) or 487; for Poetry-writing Emphasis, ENG 311, and ENG 485 (Sams Poetry Seminar); for Drama-writing Emphasis, CTA 371 and 372, and ENG 485 (Sams Drama Seminar). Students who wish to pursue a multigenre, generalist writing experience may do so by choosing to specialize in a different genre in ENG 487 than they did in ENG 311, 312, or 371.

In addition to the course requirements detailed above, majors on the Literature Track may attain Departmental Honors in English by successfully completing the above requirements plus ENG 329 and 488 under the direction of an Honors Committee composed of the Chair and two members of the English Department selected by the student. Students should register for ENG 488 in the spring semester of their junior year and complete the honors paper by March 15 of the senior year.

In addition to the course requirements detailed above, majors on the Creative Writing Track may attain Departmental Honors in English by submitting a portfolio by March 15 of the senior year to be juried by outside readers. The portfolio must be judged “outstanding” to receive honors.

A grade point average of 3.50 in upper-division English classes is required for honors.

The Ferrol A. Sams, Jr., Distinguished Chair of English, established in 1994, brings a respected fiction writer, poet, or playwright to Mercer during spring semester. The distinguished writer-in-residence conducts one seminar (ENG 485) and offers readings and lectures during his/her appointment.

A minor in English consists of five courses beyond the first semester of First Year Seminar, including at least one course from 233, 234, 235, 263, 264 or 265, and three courses numbered 300 or above.

The first semester of First Year Seminar or the equivalent is prerequisite to all other English courses. Either English 233, 234, 235, 236, 237, 263, 264, or 265 is prerequisite to all upper division English courses.

108. Composition (3 hours)
This course focuses on the expository essay, the basic form of college writing. It includes an introduction to research. The student is expected to be familiar with standards of correctness, including punctuation and grammar.

233. The Study of Drama (3 hours)
A study of drama from various periods with emphasis on forms, ideas, techniques, and meaning. The student will be required to develop an ability to read, think, and write critically.

234. The Study of Fiction (3 hours)
A study of novels and short stories from various periods with emphasis on forms, ideas, techniques, and meaning. The student will be required to develop an ability to read, think, and write critically.

235. The Study of Poetry (3 hours)
A study of poetry from various periods with emphasis on forms, ideas, techniques, and meaning. The student will be required to develop an ability to read, think, and write critically.

236. The Study of a Literary Theme: (variable topic) (3 hours)
(Same as SST 236)
This course examines a particular theme in various literary forms. In addition to learning how to read a literary text closely and carefully, the student will be required to develop an ability to read, think, and write critically.
237. Literature and Film (3 hours)
The critical study of film as a literary text. Selected novels and their film adaptations will be studied in order to explore the differences and similarities between written and cinematic forms.

240. Multicultural Women Writers (3 hours)
(Same as WGS 240)
Prerequisite: FYS 101
An analysis of the writings of contemporary American women of diverse cultural backgrounds. Reading and discussing novels, short stories, and poetry, this course will explore the ways that these writers navigate being American and being culturally “other” within a homogenizing “melting pot” society.

263. Survey of English Literature: Beginnings through the Eighteenth Century (3 hours)
A chronological survey of English literature from the Anglo-Saxon period through the eighteenth century. Required for the English major.

264. Survey of English Literature: Romanticism to the Present (3 hours)
A chronological survey of English literature from the Romantic Age to the contemporary period. Required for the English major.

265. Survey of American Literary Masters (3 hours)
A study of major American writers from the colonial period to the present. Required for the English major.

301. Introduction to Literary Studies (3 hours)
This course introduces students to literary criticism and the methodologies of literary scholarship. It is intended to prepare English majors for advanced work in upper-division courses. Required for the English major.

307. Essay Writing (3 hours)
Writing in a variety of essay forms with special emphasis on the relationships among writer, subject, and reader.

310. Introduction to Creative Writing (3 hours)
Prerequisites: FYS 101, ENG 234 or 235 or a portfolio approved by the instructor. The students will learn, apply, and question the forms, conventions, and techniques of poetry and prose and will then use this knowledge to craft their own original work in these genres. Students will begin to discern their own voices as writers and will begin to formulate a set of aesthetics based on their readings of strong work by professional writers. This course is the prerequisite for all other creative writing courses.

311. Poetry Workshop (3 hours)
Prerequisite: Consent of the instructor.
Students who have developed a facility in poetry writing will work together in a workshop setting. Exercises, assignments, readings, group critiques, and individual conferences will be used to support the student’s efforts to complete an agreed upon poetry manuscript.

312. Fiction Workshop (3 hours)
Prerequisite: Consent of the instructor.
Students who have developed a facility in fiction writing will work together in a
workshop setting. Exercises, assignments, readings, group critiques, and individual conferences will be used to support the student's efforts to complete an agreed upon fiction manuscript.

323. History of the English Language (3 hours)  
The history of modern British and American English is traced from the Indo-European beginnings through the Anglo-Saxon, Medieval, and Modern Periods to the present trends in linguistic study.

325. Contemporary Theories in Linguistics (3 hours)  
This course includes the study of phonetics, morphology, structural linguistics, and transformational grammar. It is intended to acquaint students with the recent scientific approach to the study of English grammar.

329. Twentieth-Century Literary Theory and Criticism (3 hours)  
A study of literary theory and criticism in the twentieth century, focused on major groups and movements. Regularly included are such schools as Formalism, Structuralism, Psychoanalysis, Feminism, and Post-Structuralism.

330. Chaucer (3 hours)  
This course focuses primarily upon The Canterbury Tales with some work on Troilus and Criseyde and minor poems. Attention is given to Middle English pronunciation and poetics. Lectures, reports, and collateral readings will concern the Medieval background.

332. Shakespeare I: Histories and Comedies (3 hours)  
A study of several histories and comedies. Plays to be considered may include Richard II, Henry IV, Henry V, A Midsummer Night's Dream, The Merchant of Venice, Twelfth Night, and others.

333. Shakespeare II: Tragedies and Romances (3 hours)  
A study of selected tragedies and romances. Plays to be considered may include Romeo and Juliet, Hamlet, King Lear, Othello, Macbeth, The Winter's Tale, The Tempest, and others.

335. Milton (3 hours)  
A study of Paradise Lost, Paradise Regained, and Samson Agonistes, as well as selections from the minor poems and prose works.

340. Sixteenth-Century Literature (3 hours)  
A survey of the literature of the English Renaissance. Special attention will be given to the work of Edmund Spenser, Christopher Marlowe, Sir Philip Sidney, and Sir Francis Bacon, as well as to the non-dramatic poetry of Shakespeare.

342. Seventeenth-Century Literature (3 hours)  
A survey of the religious and secular literature of seventeenth-century England, up to 1660, including such authors as Donne, Herbert, Jonson, Herrick, and Marvell.

344. Sixteenth and Seventeenth-Century Drama (3 hours)  
A study of Renaissance and seventeenth century drama exclusive of Shakespeare, with emphasis upon such playwrights as Marlowe, Jonson, Webster, Wycherley, Dryden, and Congreve.

346. Eighteenth-Century Literature (3 hours)  
A study of the major figures from Dryden to Goldsmith with special emphasis on the comic ironic-satiric tradition in prose and on the rhetorical and empirical tradi-
tions in poetry. Lectures and collateral reading provides background for understanding the social, philosophical, religious, and aesthetic implications of literature.

347. Poetry and Prose of the Romantic Movement (3 hours)
A study of the poetry and prose of the English Romantic period with chief emphasis upon six major figures-Blake, Wordsworth, Coleridge, Byron, Shelley, Keats.

348. Victorian Poetry and Prose (3 hours)
A study of the major poets and prose writers of the Victorian age in England, with particular attention to Tennyson, Browning, Arnold, Carlyle, Ruskin, and Hopkins. Selected works from the pre-Raphaelites and from the aesthetic and decadent movements of the 1800s and 90s will also be read.

349. The English Novel (3 hours)
A survey of the development of the novel from the 1720s to the 1880s with special emphasis on Richardson, Fielding, Austen, Dickens, Eliot, Hardy, and other selected writers.

352. Romanticism In American Literature (3 hours)
The origin, growth, and impact of the Romantic movement in American literature as revealed by an examination of the major writers of the period such as Poe, Hawthorne, Melville, Emerson, Thoreau, and Whitman.

353. Realism In American Literature (3 hours)
A study of the movement in American literature from Romanticism to Realism with its accompanying emphasis on pragmatic, realistic, or naturalistic interpretations. Major consideration will be given to such writers as Dickinson, Twain, James, Howells, and Crane.

354. The American Novel (3 hours)
A survey of the development of the American novel from its beginnings to the early twentieth century to show how the American novel has become both uniquely American and a major form of American letters. Hawthorne, Melville, Howells, James, Dreiser, and others will be studied.

357. Literature of the South to 1945 (3 hours)
A study of southern literature from the antebellum period to the end of World War II. The course includes such writers as the Frontier Humorists, Twain, Ransom, Tate, Faulkner, Warren, Wolfe, and Toomer. Topics such as tradition, change, and race relations are considered.

358. Literature of the South after 1945 (3 hours)
A study of southern literature in the contemporary period. The course includes such writers as O'Connor, Welty, Percy, Ellison, Walker, and Dickey and selected contemporary southern poets and dramatists. Topics such as tradition, change, and race relations are considered.

359. African American Literature: Beginnings to 1965 (3 hours)
(Same as AFR 359)
A survey of classic writings in African American literature presented in their historical contexts. The course includes essays analyzing the political and social status of African Americans at various points during the period and representative works by major poets and fiction writers. Reading lists vary from year to year. but generally include such authors as Brown, Chestnut, Harper, the Grimkes, Larsen, Bontemps, DuBois, Washington, Harlem Renaissance writers, Ellison, and writers of the early Civil Rights era.
360. African American Literature: 1965 to Present (3 hours)
(Same as AFR 360)
A chronological study of the development of African American literature since 1965. The course attempts to place African American literature in the context of world and American literature by examining prevalent themes and traditions as presented in fiction, poetry, and drama. Reading lists vary from year to year, but generally include such authors as Wright, Baldwin, Morrison, Angelou, Sanchez, Baraka, McMillan, Walker, and Wideman.

362. Modern Poetry: 1900 to 1965 (3 hours)
A study of major English and American poets and aesthetic movements from 1900-65. Topics include aestheticism, Celtic Renaissance, imagism, vorticism, and objectivism. Poets usually include Yeats, Eliot, Pound, Frost, and Stevens as well as others.

364. Modern Drama: 1880 to 1965 (3 hours)
A study of drama in English from the emergence of realism at the end of the nineteenth century to the advent of absurdism in the mid-1960s.

366. Modern Fiction: 1900 to 1965 (3 hours)
A study of major modernist innovations in form and techniques by the foremost writers of the twentieth century up to 1965. Writers usually include Joyce, Woolf, Lawrence, Fitzgerald, Hemingway, Faulkner, and James.

367. Contemporary Drama: 1965 to Present (3 hours)
A study of drama in English since 1965, exploring aspects of postmodern aesthetics and staging.

368. Contemporary Poetry: 1965 to Present (3 hours)
A study of major English and American poets with respect to representative themes of postmodernism and new directions in poetic form. Major topics include: confessional and Black Mountain poetics, neo-surrealism, concrete poetry, and political, regional, and feminist verse.

369. Contemporary Fiction: 1965 to Present (3 hours)
A study of major English and American works that extends modern modes in fictional representation and style.

371. Beginning Playwriting (3 hours)
(Same as CTA 371)
The goal of this course is to introduce the student to the conventions and techniques of playwriting. Students will complete exercises leading to the creation of an original one-act play.

372. Screenwriting (3 hours)
(Same as CTA 372)
The art, craft, and business of screenwriting from theoretical and practical perspectives. Topics include: the nature of screenplay formats and structures; creation and development of premise, plot, character, and action; scene writing; adaptation issues; place of the screenwriter in the collaborative process of filmmaking; and marketing strategies.

378. Images of Women In Literature (3 hours)
(Same as WGS 378)
A study of the literary representation of women, with emphasis on the lives and
careers of women writers. Authors covered may include Austen, Bronte, Wharton, Woolf, Morrison, and others.

380. Special Topics in English Literature (3 hours)
A study of some significant topic in literature written in English not included in the regular departmental offerings. May be taken twice for credit in the English major.

381. The Critical Study of Film (3 hours)
An examination of film as a form of literature. A study of the relationship of film to literary forms and structures. Special emphasis will be on important film genres, as well as on the work of major directors.

480S. Seminar in Literature (3 hours)
Prerequisites: Senior standing.
A study of some significant topic in English or American literature not included in the regular departmental offerings. May not be repeated for credit. Required for the literature track of the English major.

483. Advanced Playwriting Workshop (3 hours)
Prerequisites: Junior or senior standing; ENG/CTA 371 and 372.
A portfolio (two complete plays) approved by the instructor may substitute for ENG/CTA 371 and/or 372. Students will write and revise one play with assistance from readers' theater criticism conducted by classmates and will assemble a portfolio of three complete plays. Offered as needed for playwriting students unable to enroll in ENG 485 (Sams Seminar in Drama).

484. Directed Independent Reading (1-3 hours)
Prerequisite: Junior or Senior status and consent of the instructor.
This course provides the student with the opportunity to do guided intensive reading in a literary field of his or her interest under the direction of the instructor selected. The student will be expected to meet regularly with the instructor and to present written evidence of his or her critical ability and aesthetic appreciation. Variable credit 1-3 hours, not to exceed 3 hours total.

485. The Ferrol Sams, Jr., Distinguished Chair of English Seminar in Fiction, Poetry, or Drama (3 hours)
Prerequisite: Successful completion of appropriate creative writing courses or by permission of the instructor.
This course will provide an opportunity for students to study advanced creative writing under an accomplished artist. Course may be repeated for credit.

487. Advanced Creative Writing Workshop (3 hours)
Prerequisites: Junior or senior standing, ENG 310, and 311 or 312.
The course follows a workshop format wherein students critique one another's work, hone their editing skills, and study the editorial standards of strong presses and practicing writers. The course also explores matters of form and researching markets for written work. Offered every fourth semester.

488. Independent Study for Honors in English (3 hours)
Open to qualified senior English majors and offered fall semester of each year. Working under the direction of a member of the English Department and with the approval of the chair, the student will complete by March 15 of his or her senior year an essay project of scholarly merit. Three hours credit will be awarded on satisfactory completion of the project, and an Honors designation will be entered in the student record.
The Environmental Science Program consists of two majors: (1) the Bachelor of Science in Environmental Science and (2) the Bachelor of Arts in Environmental Studies.

The curriculum of the B.S. in Environmental Science is designed to provide students with the methods and processes of applying practice of the basic sciences of biology, chemistry, geology, physics and mathematics to scientific problems of the environment. Successful students will gain an extensive exposure to the interconnectedness of these natural sciences and obtain a breadth of knowledge that will permit them to make informed decisions about environmental issues. This degree prepares students for careers such as laboratory/field scientists, laboratory supervisors, industrial health and safety supervisors, or educators.

The curriculum for the B.A. in Environmental Studies is designed to provide students with the methods and processes of applying the practice of the basic social sciences of sociology, political science and economics to policy related problems of the environment. Successful students will gain fundamental understanding of the basic social sciences and related natural sciences becoming proficient in applying the principles of these discipline to formulation, analysis, and appropriate implementation of environmental policy from local to international level. This degree prepares students for careers in environmental management, policy development, education, government agencies, and law.

Both majors are required to complete the Introduction to Environmental Science (ENV 150), a foundational course in the discipline; Geographic Information Systems (ENV 330), a course providing modern analytical techniques to problems of the environment; and Senior Seminar in Environmental Science (ENV 495), in which students of both majors will jointly work on a contemporary problem of environmental concern.

The Bachelor of Science in Environmental Science degree consists of 30 hours of ENV courses and 29-32 hours from the sciences and mathematics.

1. Science and Mathematics Core (29-32 hours)
   a. CHM 111 and 112, or CHM 115; b. BIO 210 and 220; c. PHY 141/121L or 161/121L; d. ESC 105; e. MAT 226; f. ECN 150 or 151

2. Environmental Studies (3 hours)
   ENV 325, ENV 344, ENV 345, ENV 390 or ENV 452

3. Environmental Sciences (27 hours)
   ENV 150, ENV 304, ENV 330, ENV 370, ENV 383, and ENV 495
   Twelve hours from: ENV 210, ENV 220, ENV 251, ENV 300, ENV 310, ENV 315, ENV 351, ENV 352, ENV 391, ENV 440, ENV 470, ENV 490
The Bachelor of Arts in Environmental Studies consists of 29 hours of ENV courses and 15-17 hours from the sciences/mathematics and social sciences.

1. Science/Mathematics and Social Science Core (15-17 hours)
   a. CHM 111 or 115; b. BIO 106 or ESC 105; c. MAT 226; and d. two courses from ECN 150 or 151; POL 200; or SOC 101.

2. Environmental Studies (18 hours)
   At least 18 hours from ENV 104, 325, 344, 345, 390, 452, 490 (four hours maximum on the latter)

3. Environmental Sciences (11 hours)
   ENV 150, ENV 304, ENV 330, ENV 383, ENV 495

A minor in Environmental Science consists of a minimum of 15 hours, including ENV 150 and at least 6 hours in ENV courses numbered 300 or above.

103. The Ocmulgee River Floodplain (2 hours)
Prerequisite: SCI 105.
An integrated study of natural form and function of the Ocmulgee River flood plain and the interconnectedness between the environment and human society. The course is taught as a seven-week module.

104. Environmental Controversies (2 hours)
Prerequisite: SCI 105.
A critical evaluation of the many perspectives of contemporary environmental issues including such topics as global warming, deforestation of tropical rainforest, and environmental racism. The course is taught as a seven-week module.

150. Introduction to Environmental Science (4 hours)
A study of the interrelationships of biological cycles and processes with the physical and geological cycles that drive terrestrial and aquatic ecosystems. Emphasis will be placed on understanding the form and function of the natural environment, modifications placed on natural systems by human activities, and current strategies to minimize human impacts on natural systems. A laboratory/field trip course.

210. Environmental Geology (4 hours)
(Same as ESC 210)
Prerequisite: ESC 105 or consent of the instructor.
This course focuses on the influence that geologic forces have on the existence and development of physical and biological communities. Topics include geologic hazards, preservation of natural geologic habitats, and pertinent political/economic/social considerations. The course is designed particularly for students pursuing majors or minors in the earth sciences, engineering, or other disciplines requiring specific knowledge of the above described inter-relationships. A lecture and laboratory course.

220. Oceanography (4 hours)
(Same as ESC 220)
Prerequisite: CHM 112, and PHY 141/141L or 161/161L.
The basic principles and concepts needed to give an understanding of the general makeup of the world’s oceans and how they are investigated by oceanographers. Physical, chemical, biological and environmental aspects of oceanography will be presented. A lecture and laboratory course.
251. Water and Wastewater Analysis  (4 hours)
Prerequisites: CHM 112 and ENV 150.
A study of the quantitative techniques used for the determination of water quality with an overview of pertinent federal and state legislation pertaining to water quality. Includes traditional wet chemistry techniques used in the characterization of ambient, potable and municipal wastewater supplies with emphasis on development of quantitative laboratory skills. A lecture, laboratory and field course.

300. Invertebrate Zoology  (4 hours)
(Same as BIO 300)
Prerequisite: BIO 220.
A systematic study of the invertebrate taxa with emphasis on phylogeny, comparative morphology and physiology, behavior, and ecology. A library research paper is required. A lecture and laboratory course.

304. Introduction to Social Science Research Methods  (4 hours)
(Same as SOC 304)
MAT 226 is recommended.
In this course students are introduced to fundamental ideas and methods of social science research, including the link between theory and research, the evaluation of research literature, the basics of research design, and the principle elements of surveys, experiments, and field research. Students will complete laboratory exercises in these areas and will learn basic descriptive statistics through the use of a standard statistical analysis program (e.g. SPSS).

310. Hydrogeology  (4 hours)
Prerequisites: CHM 111/112 or 115; ENV 150.
A study of the movement of water through the hydrological cycle and the geological factors that control the occurrence, movement, and chemical composition of surface and groundwater systems. This course is designed to permit a quantitative understanding of various components of the hydrological cycle, essential physical concepts governing groundwater flow, and natural and anthropogenic controls on water chemistry during passage through the hydrosphere. A laboratory and lecture course.

315. Field Studies in Environmental Science  (3 hours)
(Same as BIO 315)
The biological study of a given region of the world through travel, field work, reading, and lecture. Specific topics (e.g., ecology, animal behavior, zoology, botany, and/or environmental issues) will reflect the expertise of the instructor and the characteristics of the region. As appropriate, field experience will be supplemented by informal lectures, seminars, demonstrations, discussions, experimentation, and directed study. A library research paper as well as other forms of writing will be required. A lecture/field course.

325. Urban Ecology  (3 hours)
(Same as SOC 325)
The focus of “urban ecology” is the synergistic relationship between people and the urban environment (social, physical and institutional), to include the essential bond between human and natural environments. It includes the study of the historical development of cities, current urbanization trends and impacts, the critical role of the local community in the development of human relations and institutions, community leadership and organization, and the relationship of the urban and natural environment.
330. Introduction to Geographic Information Systems (4 hours)
Prerequisite: ENV 150 or CSC 125 or permission of the instructor.
The study of computer-based technology for creating geographic data, managing large quantities of digital data, integrating information from different sources, visualizing scenarios, and analyzing geographic data. The theoretical component of the course emphasizes the fundamentals of cartography and structure and editing of spatial data. Successful students will be able to apply this knowledge to demonstrate how GIS can be used to propose hypothetical solutions to various environmental problems. A lecture and laboratory course.

344. Environmental Ethics (3 hours)
(Same as PHI 344)
Prerequisite: Either one course in PHI or ENV 150.
An examination of ethical issues and theories as they apply to environmental concerns, together with a survey of emerging environmental philosophies.

345. Environmental Justice (3 hours)
(Same as AFR/POL/SOC 345)
This course examines the impact of institutional racism on environmental and health policies, industrial practices, government regulations and rule making, enforcement, and overall quality of life in people-of-color communities. The course will examine the nexus between environmental protection and civil rights, and the impact of the environmental justice national environmental groups.

351. Environmental Chemistry (4 hours)
(Same as CHM 351)
Prerequisite: CHM 241.
A study of the physicochemical properties of substances that determine their fate and transport in the environment. Inorganic and organic substances will be examined as they are deposited, transported, transformed, and stored in the soil/sediment, water, and atmosphere. Techniques for the sampling and analysis of nutrients, toxic metals, and organic priority pollutants will be examined. A lecture, laboratory and field course.

352. Environmental Health and Toxicology (4 hours)
Prerequisites: ENV 150 and BIO 220.
A study of material and energetic substances produced by humans, and the adverse effects of those substances on the environment. Dynamics of these substances, including their effects on living organisms, are examined. A lecture and laboratory course.

370. Principles of Ecology (4 hours)
(Same as BIO 370)
Prerequisite: BIO 220.
A study of relationships between organisms and their physical and biological environment. Ecological relationships will be considered from the perspectives of individuals, populations and communities. Work in the field is required. Formal laboratory writing is required. A lecture, laboratory and field course.

383. AIDS: Narratives of Disease (3 hours)
(Same as WGS 383)
This interdisciplinary course gives students sufficient information for them to make informed decisions about their behaviors and their lives. Students will confront and grapple with the biological, social, historical, environmental, psycholog-
ical, and cultural issues which the AIDS pandemic represents. The diverse populations affected by AIDS – gays, children, women, Africans – will be discussed. AIDS and other historic plagues raise numerous moral and ethical issues regarding public health, resource allocation, individual versus group rights, and the sweeping effects of trying to keep people healthy. Books, articles, speakers, films, and classroom discussion serve as the texts for the course.

390. Special Topics: Environmental Studies (1-3 hours)
A study of some significant topic in environmental studies not covered in the regular course offerings. May be taken more than once for a maximum of 6 credits.

391. Special Topics: Environmental Science (1-4 hours)
A study of some significant topic in environmental science not covered in the regular course offerings. May be taken more than once for a maximum of eight credits.

440. Aquatic Biology (4 hours)
(Same as BIO 440)
Prerequisite: BIO 220.
Aquatic ecosystems encompass a wide spectrum of habitats, ranging from the world’s major oceans and rivers down to the smallest tidal pools and mountain streams. Course content will reflect this diversity as well as the fundamental principles unifying these systems, emphasizing the adaptations of representative communities to the physicochemical characteristics of the varied habitats. The laboratory component will combine field trips to local middle Georgia aquatic environments with wet labs, where collected plant and animal samples will be identified. Experimental design and formal laboratory writing are required. A lecture, laboratory, and field course.

452. Environmental Economics (3 hours)
(Same as ECN 452)
Prerequisites: ECN 150, 151, and junior status; or permission of instructor.
An examination of the interrelationship which exists between the physical environment and the economic system. Models of general equilibrium analysis, welfare economics, and property rights are developed; these are supplemented by readings from scholarly journals. Emphasis is placed upon the issue of free markets’ ability to allocate scarce environmental resources efficiently (including intertemporally) among competing uses.

470. Population Biology (4 hours)
(Same as BIO 470)
Prerequisites: BIO 220 and MAT 141 or 191.
A study of the structure, growth, and genetics of theoretical, laboratory, and natural populations of all types of organisms. Physical limitations, competition, predation, parasitism, and mutualism will be considered by theoretical, practical, and evolutionary perspectives. Experimental design and formal laboratory writing are required. A lecture, laboratory, and field course.

490. Internship in Environmental Science (3-9 hours)
Prerequisites: Senior status and permission of the instructor.
Provides supervised practical experience emphasizing hands-on environmental education in a field approved by the coordinator of the environmental science program. The instructor in the environmental field must approve and supervise the student project.
495. Senior Seminar in Environmental Science (3 hours)
Prerequisites: Senior status and permission of instructor.
An interdisciplinary study of a contemporary topic not covered in depth in the cur-
criculum. Majors will present papers on research and write a review of a significant
topic in environmental science. A lecture/discussion course.

FINANCE (FIN)
For a description of the program of study in this area, and of the courses
offered, see the section EUGENE W. STETSON SCHOOL OF BUSINESS AND
ECONOMICS in thisBulletin.

FIRST-YEAR SEMINAR (FYS)
Jonathan C. Glance, Director/Associate Professor of English

FIRST-YEAR SEMINAR EXPERIENTIAL (FYX)
David Gregory Sapp, Director/Assistant Professor of Christianity and
Interdisciplinary Studies
Stephen Bluestone, Professor of English
Margaret Dee Bratcher, Dean, University Commons
Mary Ann Drake, Chair/Professor of Interdisciplinary Studies
Jean Fallis, Director of Volunteering & Service Learning, University Commons
Chester J. Fontenot, Jr., Professor of English
Sarah E. Gardner, Associate Professor of History
Jonathan C. Glance, Director, First Year Seminar/Associate Professor of English
Thomas Glennon, Reg Murphy Professor of Psychology
Robert Good, Associate Professor of History/Chair, Department of History
Randall Harshbarger, Visiting Assistant Professor of Interdisciplinary Studies
Linda L. Hensel, Associate Professor of Biology; Director, Scientific Inquiry
Janell A. C. Johnson, Instructor of Christianity
Gordon R. Johnston, Associate Professor of English
Pamela Johnston, Visiting Instructor of Interdisciplinary Studies
Frank J. Macke, Professor of Communication and Theatre Arts
Mary Alice Morgan, Professor English/Chair of Women's and Gender Studies
Margaret R. Morris, Chair/Residential Teacher Education; Associate
Professor of Early Childhood Education
David G. Nelson, Chair/Associate Professor of Mathematics
Paul F. Oppy, Davenport Professor of Communication and Theatre Arts
Jessica Perez-Monforti, Assistant Professor of Political Science
Gary A. Richardson, Interim Chair/Hunter Professor of English
Caryn Sanford Seney, Associate Professor of Chemistry
Andrew Silver, Associate Professor of English
Anna K. Silver, Associate Professor of English
Diana R. Stege, Professor of English
John J. Stege, Professor of English
Charlotte S. Thomas, Chair/Associate Professor of Philosophy and Associate
Professor of Interdisciplinary Studies
Douglas Thompson, Fellow, University Commons
Bryan J. Whitfield, Assistant Professor of Christianity
Tia Gafford-Williams, Assistant Professor of English and Interdisciplinary Studies

FIRST-YEAR SEMINAR / 141
Richard F. Wilson, Roberts Professor of Theology; Chair, Department of Christianity
Carolyn Yackel, Assistant Professor of Mathematics
Yolanda Young, Visiting Instructor
Marian F. Zielinski, Professor of Communication and Theatre Arts
Jennifer J. Zimmerman, Assistant Director, Academic Resource Center

First-Year Seminar is the essential Mercer course, teaching the skills of analysis, interpretation, discussion, and writing that are crucial to all the other courses of a liberal-arts education. First-Year Seminar also encourages and enables students to value the life of the mind, to see past surfaces into the depths, to seek their true vocations rather than the mere satisfaction of appetite, and to act responsibly and ethically instead of seeking advantage over others.

To be preoccupied with material wealth is to defeat its purpose. Mercer and its First-Year Seminars seek to produce men and women who are spiritually and intellectually wealthy, who are able to assess and choose wisely among events and ideas, and who thus create for themselves thoughtful, fulfilling, and productive lives.

The First-Year Seminar is a two-semester sequence. Each semester, all sections of the Seminar focus on a single topic, using texts and events chosen by the individual instructors of the sections. In the fall, students and teachers explore in small discussion groups the topic of “Composing the Self.” Building upon that work, they turn outward in the spring to examine the theme “Engaging the World.”

The First-Year Seminar is part of the Common Core of the General Education Program for students in the College of Liberal Arts, whether they intend to follow the Distributional or Great Books Programs to complete their general education. For students in the Stetson School of Business, the School of Education, and the School of Engineering, First-Year Seminar serves as part of the required foundational course work on which later professional education is built.

A student may repeat FYS 101 or FYS 102 only in order to remove a failing grade in that course. Repeats of any FYS course must be completed by the end of the student’s second year of study. Students failing to complete this requirement are obliged to successfully complete ENG 108, plus one additional 200 level English course for each of the two FYS courses not completed. Any 200 level English course taken to fulfill the FYS requirement cannot be used to fulfill the Humanities and Fine Arts requirement (Block 3) of the General Education Distributional Program.

Experiential sections of the First Year Seminar, designated “X,” extend the purposes of the program by requiring community service, such as weekly tutoring of elementary-school students and participation in neighborhood-building activities. In the Fall Semester, a weekend camping trip that typically involves ropes-course exercises is also required. Sections which are not designated “X” may require similar activities, at the discretion of the teacher.

In the Fall Semester, the sections designated “X” offer five hours credit. In the Spring Semester, all sections carry four hours credit.

For more description of the experiential sections, please contact the Director of First Year Seminar or the Director of First Year Seminar Experiential.
SEMINAR TOPICS

101. Composing the Self-Fall (4-5 hours)
An exploration of individual identity. What are the sources of identity? Are we free to compose ourselves? What constitutes a worthy individual? What impact does historical circumstance or the circumstance of birth have on individual identity?

102. Engaging the World-Spring (4 hours)
Prerequisite: Successful completion of FYS 101 or consent of the Director.
An exploration of life in the world. How do we balance the competing claims of civic duty and individual conscience? What are the meanings and natures of citizenship in a democracy? What constitutes social justice? What is the nature of cross-cultural interaction?

301. FYS Preceptorship (2-3 hours)
Selected upperclass students serve as teaching facilitators in FYS 101. Preceptors attend all classes, read the assigned work, and participate in class discussions. The main duties of the preceptors are to facilitate class discussion and to give constructive feedback on writing assignments. Other duties will be determined by the FYS teacher in consultation with the preceptor. In addition, the preceptor will be required to reflect in writing on the experience. This class will be graded on a S/U basis and can be taken only once. (2 hours credit for FYS, 3 hours credit for FYS/X)

302. FYS Preceptorship (2 hours)
Selected upperclass students serve as teaching facilitators in FYS 102. Preceptors attend all classes, read the assigned work, and participate in class discussions. The main duties of the preceptor are to facilitate class discussion and to give constructive feedback on writing assignments. Other duties will be determined by the FYS teacher in consultation with the preceptor. In addition, the preceptor will be required to reflect in writing on the experience. This class will be graded on a S/U basis and can be taken only once.

FOREIGN LANGUAGES AND LITERATURES (FLL)

Jane Anna Weaver, Chair/Associate Professor
William R. Davis, John M. Dunaway, Edward J. Weintraut and Jerry P. Winfield, Professors
Achim Kopp and Lydia Masanet, Associate Professors

The Department of Foreign Languages and Literatures builds students' proficiency in the five areas necessary for communication: listening, speaking, reading, writing, and cultural competence in Chinese, French, German, Greek, Italian, Latin, and Spanish. It also strengthens students' understanding of the literature, history, customs, and culture of the peoples who used or are using those languages. Major and minor programs are offered in French, German, Latin, and Spanish.

Students who place into and successfully complete FLL 251 or above will receive an additional 4 hours of credit toward graduation for the elementary sequence.

A major in French or Spanish consists of 32 hours*, with a minimum of 18 hours in courses numbered 300 or above. FRE 301, 302, and either 303 or 304 are required for a French major, and 315 is strongly advised. For Spanish majors,
a peninsular survey (SPN 303, 304, or 320) and a Spanish-American survey (306 or 310) of literature are required; majors are also urged to take SPN 315. Nonnative speakers of Spanish pursuing the major are required to take SPN 301 and SPN 302. A minor in French or Spanish consists of a minimum of 18 hours*, 9 hours of which must be in courses numbered 300 or above. French and Spanish majors must pass an exit examination.

A major in German consists of at least 24 hours*, 15 of which must be in courses numbered 300 or above. German majors must complete the Zertifikat Deutsch examination with a passing grade (minimum of “ausreichend bestanden”). A minor in German consists of a minimum of 18 hours*, to include GER 311 and two other 300-level courses.

A major in Latin consists of at least 24 hours*, 15 of which must be in courses numbered 300 or above. Majors are encouraged to take courses in related areas, such as ancient history and classical literature. A minor in Latin consists of 18 hours*, 9 of which must be in courses numbered 300 or above. Latin majors must pass an exit examination.

*IN ALL FLL MAJORS AND MINORS, SOME LOWER-DIVISION REQUIREMENTS MAY BE EXEMPTED AS A RESULT OF EXAMINATION OR EVIDENCE OF PRIOR TRAINING OR EXPERIENCE.

Majors may attain Departmental Honors in French, German, Latin, or Spanish by meeting the following requirements: (1) apply for admission to the program by the end of the spring semester of the junior year; (2) select a director from the department faculty; (3) attain a 3.75 grade point average in language courses; (4) enroll in FRE, GER, LAT, SPN 490; (5) complete a special project in language, literature, methodology, or other approved area; (6) give a departmental honors presentation.

Students wishing to become certified to teach FRE, GER, LAT, SPN in P-12 must major in their language(s) and must also complete the requirements for Teacher Education in order to earn certification. See the School of Education for a detailed listing of requirements.

**STUDY ABROAD**

The Department of Foreign Languages and Literatures is affiliated with four study abroad programs. The prerequisite for each is either successful completion of 112 or consent of department faculty.

1. **STUDY IN FRANCE:** Students study at the Centre International d’Etudes Françaises in Angers, France. They may earn up to 15 hours of credit, up to 9 of which may count toward the major. No more than 6 credit hours may count toward the minor.

2. **STUDY IN SPAIN:** Students study at the Center for Cross-Cultural Study in Seville, Spain. They may earn up to 16 hours of credit, up to 9 of which may count toward the major. No more than 6 credit hours may count toward the minor.

3. **STUDY IN GERMANY:** Students study at the Speak and Write Institute in Marburg, Germany. Variable credit up to 15 hours, up to 9 of which may count toward the major. No more than 6 credit hours may count toward the minor.

4. **STUDY IN LATIN:** Variable credit up to 15 hours, up to 9 of which may...
count toward the major. No more than 6 credit hours may count toward the
minor.

5. STUDY IN GREEK: Variable credit up to 9 hours.

FOREIGN LANGUAGES & LITERATURES (FLL)

467. Foreign Language Teaching Methodology I:          (3 hours)
       Reading and Writing
       (Same as EDUC 467)
Prerequisites: EDU 256, 325, 357, or the consent of the instructor and admission
to the teacher education program.
Evaluation of the objectives and methods involved in teaching the skills of read-
ing and writing on the K-12 levels, including analysis of textbooks, consideration
of special foreign language problems, and study of alternative methodologies and
techniques of testing. (Does not count toward a language major.)

470. Language Teaching Methodology II:          (3 hours)
       Speaking and Listening
       (Same as EDUC 470)
Prerequisites: EDU 256, 325, 357, or consent of instructor and admission to
teacher education program.
Evaluation of the objectives and methods involved in teaching the skills of speak-
ing and listening on the K-12 levels, including analysis of textbooks, consideration
of special foreign language problems, and study of alternative methodologies and
techniques of testing. (Does not count toward a language major.)

CHINESE (CHN)

111-112. Beginning Chinese (Mandarin) I and II          (4 hours)
Open to students with no previous instruction in Chinese, this course sequence
enables students to attain a basic competency in language skills: listening, speak-
ing, writing, reading, and culture. Language lab activities complement classroom
instruction. (4 credit hours each) Note: These courses will be offered on an exper-
imental basis through the 2005-06 academic year.

FRENCH (FRE)

111-112. Beginning French I and II          (4 hours)
Open to students with little or no previous instruction in French, this course sequence
enables students to attain a basic competency in all language skills: listen-
ing, speaking, writing, reading, and culture. Language lab activities comple-
ment classroom instruction. (4 credit hours each)

251. Intermediate French I          (3 hours)
Prerequisite: Successful completion of or exemption from FRE 111-112.
Continued development of language skills leading to the ability to handle a limit-
ed variety of social situations, such as travel needs, biographical information,
leisure activities, etc., including past and present frames of reference. The course
includes discussion of appropriate aspects of French culture and literature.
Language lab activities complement classroom instruction.
252. Intermediate French II (3 hours)
Prerequisite: Completion of or exemption from FRE 251.
Continued development of the four language skills leading to the ability to handle an increased variety of social situations, including those calling for different levels of subjectivity (expression of opinion, emotions, wishes, etc.) and future and conditional frames of reference. The course includes discussion of appropriate aspects of French culture and literature. Language lab activities complement classroom instruction.

253S-353S. French Studies in France (1-15 hours)
Prerequisite: FRE 112 or consent of department faculty.
French language, civilization, history, and literature, to be taken during the Mercer Studies in France Program. Emphasis on one or more of the abovementioned course content components. Variable credit up to 15 hours, 9 of which may count toward the major or 6 toward the minor.

285. Intermediate Conversational Practice (1 hour)
Prerequisite: FRE 251 or consent of instructor.
This course is designed for students who would like to maintain their proficiency in speaking and listening skills. Course content will include discussion of current topics from French-language newspapers, magazines, newsletters, videos, and films. One credit-hour per semester not to exceed four credit hours; does not count toward major or minor; non-optional “Satisfactory-Unsatisfactory” grading.

301. French Composition and Conversation I (3 hours)
Prerequisite: FRE 252 or consent of instructor.
Concentrated study of everyday French by means of class discussions and short compositions. Various grammatical difficulties will be studied. Phonetic exercises will be performed in the language lab.

302. French Composition and Conversation II (3 hours)
Prerequisite: FRE 301 or consent of instructor.
Continued work in oral comprehension as well as the study of a more abstract vocabulary and complex grammatical structures through the reading of short literary extracts.

303. French Literature and Cultural Identity I (3 hours)
Prerequisite: FRE 302.
Students will continue to improve their linguistic and cultural competence by examining some of the fundamental works that are essential to the development and understanding of French culture and society. Class discussion will focus on such early writings as La Chanson de Roland and Les Lais de Marie de France and will also address works of Rabelais, Montaigne, Corneille, Racine, Du Bellay, Molière, Mme. de Sévigné, Voltaire, Rousseau, and others.

304. French Literature and Cultural Identity II (3 hours)
Prerequisite: FRE 302.
Students will continue to improve their linguistic and cultural competence by examining some of the significant shifts in society and literature that resulted from the French revolution and that are essential to the development and understanding of French culture and society. Class discussion will focus on works of Chateaubriand, Lamartine, Hugo, Baudelaire, George Sand, Flaubert, Proust, Apollinaire, Camus, Sartre, and others.
315. French Civilization (3 hours)
Prerequisite: FRE 302.
A chronological overview of the most notable achievements, customs, and traditions in French history, art, architecture, and literature. Other distinctive features of contemporary France, such as cinema, music, geography, and politics, will be treated as well.

317. French Literature and Culture of the Seventeenth Century (3 hours)
Prerequisite: FRE 302.
Advanced practice in the four communications skills through reading, discussing, and writing about major literary works and the cultural context out of which they grew in the seventeenth century in France. Emphasis on the theater of Corneille, Racine, and Molière, as well as the philosophy of Pascal and Descartes, along with other writers such as Mme de Sévigné, Mme. de LaFayette, La Fontaine, and La Rochefoucauld. Study of special social dynamics such as the “salon mondain” and court life at Versailles.

319. French Literature and Culture of the Nineteenth Century (3 hours)
Prerequisite: FRE 302.
Advanced practice in the four communications skills through reading, discussing, and writing about major literary works and the cultural context out of which they grew in the nineteenth century in France. Emphasis on such movements as Romanticism, Realism, Parnassian poetry, Symbolism, Positivism, and Naturalism. Study of such cultural phenomena as the growing gap between artist and public and the importance of social justice during this century.

320. French Literature and Culture since 1900 (3 hours)
Prerequisite: FRE 302.
Advanced practice in the four communications skills through reading, discussing, and writing about major literary works and the cultural context out of which they have grown in France and Francophonie since 1900. Movements such as Surrealism, the Renouveau Catholique, the Nouveau Roman, Theater of the Absurd, Existentialism, Feminism, and Postmodernism will be highlighted, as well as the works of less easily classified writers (Proust, Gide, Duras, Queneau, etc.).

385. Special Topics in French (Subtitle) (1-3 hours)
Prerequisite: Consent of instructor.
May be repeated for major or minor credit.

425. Seminar (Subtitle) (3 hours)
Prerequisite: French 302 or consent of the instructor.
A concentrated study of selected authors, literary movements, or topics in French life and culture. Topics will vary from year to year. May be repeated for major or minor credit.

480. Internship (Variable credit up to 15 hours)
Prerequisite: Departmental approval.
A supervised program of field experience in which students make practical application of their skills in French in an approved establishment outside the University. The department as a whole must approve the student's project, which will be directed by an instructor and an on-site supervisor. No more than 3 hours may be counted toward a French major or minor.
485. Assistantship for French 111-112 (1 hour)
Prerequisite: Permission of the instructor.
Selected French majors or minors serve as assistants in FRE 111 or 112. Assistants attend 2-3 classes per week, study the assigned work, and help conduct classroom and lab activities. Assistants may review but will not evaluate students’ work. Other duties will be determined by the instructor in consultation with the assistant. In addition, the assistant will be required to complete a written reflection on the experience. Does not count toward the major or minor. Mandatory S/U grading. May not be repeated.

490. Supervised Independent Study (1-3 hours)
Prerequisite: Consent of instructor.
An intensive reading program designed to examine in depth a specific theme or author in French literature. May be repeated for major or minor credit.

GERMAN (GER)

111-112. Beginning German I and II (4 hours)
This course sequence is designed to help students cultivate a basic level of proficiency in all four language skills (reading, writing, speaking, and listening). By the end of this sequence, students should be able to communicate meaningfully with native speakers who are accustomed to dealing with non-native users of German. Emphasis is on basic needs in highly predictable, common everyday situations. Language lab activities complement classroom instruction. (4 credit hours each)

251-252. Intermediate German I and II (3 hours)
Prerequisite: GER 112 or exemption.
This sequence is designed to help students enhance their proficiency in all four language skills. By the end of the sequence, students should be able to communicate meaningfully with sympathetic native speakers. Emphasis is on an increasing variety of interactive transactions in past, present, future, and hypothetical frames of reference, including those requiring expression of opinion, emotions, wishes, and reservations. Language lab activities complement classroom instruction.

253S-353S. German Studies Abroad (Variable credit up to 15 hours)
Prerequisite: Completion of GER 112 or consent of department faculty.
Emphasis on one or more of the following areas: German languages, culture, history, and literature. Variable credit up to 15 hours, up to 9 of which may count toward the major or 6 toward the minor.

285. Intermediate Oral Practice (1 hour)
Prerequisite: German 251 or consent of instructor.
This course is designed for students who would like to maintain their proficiency in speaking and listening skills. Course content will include discussion of current topics from German-language newspapers, magazines, newsletters, videos, and films. One credit-hour per semester not to exceed four credit hours; does not count toward major or minor; non-optional “Satisfactory-Unsatisfactory” grading.

311. Conversation and Composition (3 hours)
Prerequisite: GER 252 or consent of instructor.
Continued enhancement and refinement of the four language skills leading to the ability to perform effectively and meaningfully in an increased variety of social situations. Introduction to discourse strategies in speaking (e.g., interrupting speak-
er, asserting one’s opinion, paraphrasing) and in writing (e.g., requesting information, applying for positions, refusing or accepting invitations). Language lab activities complement classroom instruction.

321. Contemporary German Society and Culture (3 hours)
Prerequisite: GER 311 or consent of instructor.
On-going enhancement and refinement of skills in reading, writing, listening, and speaking. Class discussion will focus on a variety of issues affecting contemporary German society and culture (e.g., political, economic, sociological, psychological, religious). Language lab activities complement classroom instruction.

351. German Literature, Culture, and Society I (3 hours)
Prerequisite: GER 311.
On-going enhancement and refinement of skills in reading, writing, listening, and speaking. Class discussion will focus on excerpts from works written by authors such as Walther von der Vogelweide, Wolfram von Eschenbach, Martin Luther, Andreas Gryphius, Gotthold Ephraim Lessing, Johann Michael Lenz, Johann Wolfgang von Goethe, Friedrich von Schiller, Friedrich Hölderlin, and Immanuel Kant. Language lab activities complement classroom instruction.

352. German Literature, Culture, and Society II (3 hours)
Prerequisite: GER 311.
On-going enhancement and refinement of skills in reading, writing, listening, and speaking. Class discussion will focus on excerpts from works written by authors such as Johann Wolfgang von Goethe, Friedrich von Schiller, Novalis, Joseph von Eichendorff, Heinrich Heine, Arthur Schopenhauer, Friedrich Nietzsche, Theodor Fontane, Rainer Maria Rilke, and Bertolt Brecht. Language lab activities complement classroom instruction.

353. German Literature, Culture, and Society III (3 hours)
Prerequisite: GER 311.
On-going enhancement and refinement of skills in reading, writing, listening, and speaking. Class discussion will focus on works written by authors such as Bertolt Brecht, Friedrich Duerrenmatt, Heinrich Boell, Guenter Grass, Wolf Biermann, Christa Wolf, and Heiner Mueller. Special emphasis on issues attending post-unification Germany and the perennial German Question. Language lab activities complement classroom instruction.

385. Special Topics in German (Subtitle) (1-3 hours)
Prerequisite: Consent of the instructor.
May be repeated for major or minor credit.

411. Advanced Stylistics (2 hours)
Prerequisite: GER 311 and two courses in German literature, culture, and society.
This course is designed to help students refine their abilities in all four skills and discuss with greater sophistication a wide variety of complex topics pertaining to contemporary German. Language lab activities complement classroom instruction.

425. Seminar (Subtitle) (3 hours)
Prerequisite: GER 311, one course from literature, society, and culture grouping, and consent of the instructor.
This course is designed to help students examine in depth a particular author, work, or issue in German literature, culture, or society.

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480. Internship (Variable credit up to 15 hours)
Prerequisite: Departmental approval.
A supervised program of field experience in which students make practical application of their skills in German in an approved establishment outside the University. The department as a whole must approve the student's project, which will be directed by an instructor and an on-site supervisor. No more than 3 hours may be counted toward a German major or minor.

485. Assistantship for German 111/112 (1 hour)
Prerequisite: Permission of the instructor.
Selected German majors or minors serve as assistants in GER 111 or 112. Assistants attend 2-3 classes per week, study the assigned work, and help conduct classroom and lab activities. Assistants may review but will not evaluate students' work. Other duties will be determined by the instructor in consultation with the assistant. In addition, the assistant will be required to complete a written reflection on the experience. Does not count toward the major or minor. Mandatory S/U grading. May not be repeated.

490. Supervised Independent Study (1-3 hours)
Prerequisite: Consent of the instructor.
This course is designed to help students examine in depth a particular author, work, or issue in German literature, culture, or society. May be repeated for major or minor credit.

GREEK (GRK)

111-112. Beginning Greek I and II (3 hours)
Open to students with little or no previous instruction in Greek, this sequence enables students to attain a fundamental competency in Hellenistic Greek grammar and to build a basic Greek vocabulary drawn from The Greek New Testament. The courses focus on the mastery of fundamental elements of Greek grammar and vocabulary, the use of Greek language tools, and the translation of selected readings from the Greek New Testament.

251. Intermediate Greek (3 hours)
Prerequisite: Successful completion or exemption from GRK 111-112. This course is designed to further students’ competency in Hellenistic Greek grammar and vocabulary through an intensive study of selected texts from the Greek New Testament. Attention will also be given to the history of the Greek language and to classical, Hellenistic, and Byzantine Greek culture and literature.

253S-353S. Greek Studies Abroad (Variable credit up to 9 hours)
Prerequisite: Completion of Greek 112 or consent of the instructor. Study abroad in Greece with emphasis on one or more of the following areas: Greek language, Greek literature, Greek archaeology (including inscriptions), classical history and literature.

385. Special Topics in Greek (Subtitle) (3 hours)
Prerequisite: Consent of Instructor.
This course focuses on the translation of Greek texts, which may include selections Homer, the Septuagint, the New Testament, Josephus, Philo, or Pausanias. May be repeated.
ITALIAN (ITA)

101. Accelerated Elementary Italian (1 hour)
Prerequisite: At least two years' study in high school (or a full year in college) of French, Spanish, or Latin, or consent of the instructor.
This course stresses fundamental Italian pronunciation, reading and listening skills. Grammar is not systematically covered but taught only as needed for developing the aforementioned skills. Although this course is designed especially for students who have already studied another Romance language, those who have a particular interest in and aptitude for foreign language are also welcome.

LATIN (LAT)

LAT 111, 112, and 251 or consent of instructor are prerequisites for all 300-level courses.

111-112. Beginning Latin I and II (3 hours)
Open to students with little or no previous instruction in Latin, this sequence enables participants to attain a fundamental competency in Latin grammar and to build a basic Latin vocabulary. Close readings of basic texts, including translations from Latin to English and vice versa will be stressed. In addition to offering an introduction to Roman civilization and literature, this sequence will familiarize students with Latin elements in the English language and with the sound of Latin. Language lab activities will complement classroom instruction.

251. Intermediate Latin (3 hours)
Prerequisite: Successful completion of or exemption from LAT 111-112.
This course is designed to further students' competency in Latin grammar and vocabulary. By making the transition from textbook selections to brief excerpts from a variety of Golden Age authors (e.g., Cicero, Caesar, Catullus, Vergil, Livy, and Ovid), students will practice translating and interpreting original literary texts. Language lab activities will complement classroom instruction.

253S-353S. Latin Studies Abroad (Variable credit up to 15 hours)
Prerequisite: Completion of LAT 112 or consent of department faculty.
Study abroad with emphasis on one or more of the following areas: the Latin language, Roman literature, classical history, and classical culture. Variable credit up to 15 hours, up to 9 of which may count toward the major or 6 toward the minor.

300. Republican Prose (3 hours)
An overview of the development of prose in the Republican era, with emphasis on the works of Cicero, Caesar, and Sallust. In addition to literary, cultural, and historical material, the further development of students' competency in Latin grammar and vocabulary will be stressed.

310. Imperial Prose (3 hours)
An overview of the development of prose in the Imperial era, with emphasis on the works of Livy, Tacitus, Seneca, Pliny the Younger, and Petronius. In addition to literary, cultural, and historical material, the further development of students' competency in Latin grammar and vocabulary will be stressed.

320. Comedy (3 hours)
Besides providing an overview of the development of the Roman comedy, this course offers students close reading of selected comedies by Plautus and...
Terence, two early Roman writers endowed with timeless wit. In some instances comparisons will be made with adaptations by modern authors. In addition to literary, cultural, and historical material, the further development of students’ competency in Latin grammar and vocabulary will be stressed.

330. Philosophical Texts (3 hours)
A comparison of the two leading philosophical schools in ancient Rome: Stoicism and Epicureanism. Authors to be studied include Cicero, Seneca, and Lucretius. While the former two emphasize virtue and duty in an individual’s dealing with fellow human beings and the gods, the latter attempts to free the Romans’ minds from superstition. In addition to literary, cultural, and historical material, the further development of students’ competency in Latin grammar and vocabulary will be stressed.

340. Vergil (3 hours)
While introducing students to Vergil’s smaller works, i.e., the Eclogues and the Georgics, this course focuses on the author’s greatest work, the Aeneid, the Roman national epic. In addition to literary, cultural, and historical material, the further development of students’ competency in Latin grammar and vocabulary will be stressed.

350. Ovid (3 hours)
While offering an overview of all of Ovid’s works, the course will focus on the Metamorphoses. Reading and interpreting these legends of transformations will familiarize students with important topics from Greek and Roman mythology. In addition to literary, cultural, and historical material, the further development of students’ competency in Latin grammar and vocabulary will be stressed.

360. Lyric Poetry (3 hours)
An overview of the development of Roman lyric poetry. Selected authors for close readings include Catullus, Horace, Tibullus, and Propertius. In addition to literary, cultural, and historical material, the further development of students’ competency in Latin grammar and vocabulary will be stressed.

370. Satire (3 hours)
A survey of the development of Roman satire, with readings from Horace, Persius, Juvenal, and Martial. In addition to literary, cultural, and historical material, the further development of students’ competency in Latin grammar and vocabulary will be stressed.

485. Assistantship for Latin 111-112 (1 hour)
Prerequisite: Permission of the instructor.
Selected Latin majors or minors serve as assistants in LAT 111 or 112. Assistants attend 2-3 classes per week, study the assigned work, and help conduct classroom and lab activities. Assistants may review but will not evaluate students’ work. Other duties will be determined by the instructor in consultation with the assistant. In addition, the assistant will be required to complete a written reflection on the experience. Does not count toward the major or minor. Mandatory S/U grading. May not be repeated.

490. Supervised Independent Study (1-3 hours)
Prerequisite: Consent of the instructor.
An in-depth study of a particular author, work, or issue in Roman literature or culture. May be repeated for major or minor credit.
SPANISH (SPN)

111-112. Beginning Spanish I and II (4 hours)
Open to students with little or no previous instruction in Spanish. This course sequence enables students to attain a basic competency in all language skills: listening, speaking, writing, reading, and culture. Emphasis is on basic needs in common everyday situations. Language lab activities complement classroom instruction. (4 credit hours each)

251. Intermediate Spanish I (3 hours)
Prerequisite: Successful completion of or exemption from SPN 112.
Continued development of the four language skills leading to the ability to handle a limited variety of social situations such as travel needs, biographical information, leisure activities, etc., including past, present, and future frames of reference. The course includes discussion of appropriate aspects of Hispanic society and culture and presents media-based activities as well as video applications. Language lab activities complement classroom instruction.

252. Intermediate Spanish II (3 hours)
Prerequisite: Successful completion of or exemption from SPN 251.
Continued development of the four language skills leading to the ability to handle an increased variety of social situations, including those calling for different levels of subjectivity as well as future and conditional frames of reference. The course continues discussion of appropriate aspects of Hispanic society and culture and presents media-based activities as well as video applications. Language lab activities complement classroom instruction.

253S-353S. Hispanic Studies Abroad (Variable credit up to 16 hours)
Prerequisite: Completion of SPN 112 or consent of department faculty.
Study abroad with emphasis on one or more of the following areas: Hispanic literature, culture, history, and language. Variable credit up to 16 hours, up to 9 of which may be counted toward the major or 6 toward the minor.

285. Intermediate Oral Practice (1 hour)
Prerequisite: SPN 251 or consent of instructor.
Continued development of the four language skills leading to the ability to handle an increased variety of social situations, including those calling for different levels of subjectivity (expression of opinion, emotions, wishes, etc.) and future and conditional frames of reference. The course includes discussion of appropriate aspects of Hispanic culture and literature. Language lab activities complement classroom instruction. One credit-hour per semester, not to exceed four credit-hours; does not count toward major or minor; non-optional “Satisfactory- Unsatisfactory” grading.

301. Spanish Conversation and Composition I (3 hours)
Prerequisite: SPN 252 or consent of instructor.
Continued refinement of the four language skills. Various grammatical difficulties will be studied. Concentrated study of everyday Spanish by means of discussions and short compositions. Language lab activities will complement classroom instruction. This course is normally restricted to students studying Spanish as a second language.

302. Spanish Conversation and Composition II (3 hours)
Prerequisite: SPN 252 or consent of instructor.
Continued work in oral/aural comprehension and communication. The acquisition of a more abstract vocabulary and the ability to work with more complex grammatical structures will be developed through the reading of short literary extracts. This course is normally restricted to students studying Spanish as a second language.

303. Spanish Literature I  (3 hours)
Prerequisite: SPN 302.
Students will continue to improve their linguistic skills and historical and cultural awareness by examining some of the fundamental literary works that are essential to the development and understanding of Spanish society. Class discussion will focus on epic and baroque poetry, clerical works, La Celestina, Lazarillo, de Tormes, and selections from the Don Quixote. The course includes basic elements of literary interpretation.

304. Spanish Literature II  (3 hours)
Prerequisite: SPN 302.
Students will continue to improve their linguistic skills as well as historical and cultural awareness by examining some of the fundamental literary works that are essential to the development and understanding of Spanish society. Class discussion will focus on representative authors of such movements as Romanticism, Realism, Existentialism, Surrealism, and Postmodernism. The course introduces basic elements of literary criticism.

306. Spanish American Literature I  (3 hours)
Prerequisite: SPN 302.
A study of representative works in prose and poetry from the colonial period through post-modernism. Readings will include the chronicles and letters of Christopher Columbus and Hernan Cortes, and works by later writers such as Sor Juana de la Cruz, Jose Maria Hereda, Ricardo Palma and the modernist poets Jose Marti, Julian Casal, Gutierrez Najera, and J. Asuncion-Silva, with special emphasis on the poetry of Ruben Dario. The course seeks to develop further proficiency in the communication skills as well as analyze literature within a social and cultural context. Attention will be given to socio-political conditions as a force in the formation of the literature.

310. Spanish American Literature II  (3 hours)
Prerequisite: SPN 302.
A study of the major literary works produced by Spanish America during the twentieth century. Readings will include selections in poetry, drama, and prose. The course emphasizes H. Quiroga, Luis Borges, Julio Cortazar, Jose Donoso, Isabel Allende, and five Nobel Prize recipients: Gabriela Mistral, Pablo Neruda, Octavio Paz, Miguel Angel Asturias, and Garcia Marquez. The course seeks to develop further proficiency in the communication skills as well as analyze literature in a social and cultural context. Attention will be given to socio-political conditions as a force in the formation of the literature.

315. Hispanic Culture and Civilization  (3 hours)
Prerequisite: SPN 302.
Continued enhancement and refinement of the four language skills. Students will explore cultural themes, history, and geography of Spain and Spanish America. Classroom discussions will be supplemented by readings from newspapers and magazines which highlight the political and social currents in the Hispanic world today.
320. Contemporary Spanish Literature  (3 hours)
Prerequisite: SPN 302.
A study of selected contemporary texts and movements. The course emphasizes
the communicative skills of listening, reading, speaking, and writing within a social
and cultural context, using such themes as personal identity, the family, the indi-
vidual and society, and social classes in Spain. The course also seeks to develop
proficiency in basic literary analysis and criticism.

325. Business Spanish  (3 hours)
Rerequisite: SPN 252.
An introduction to the communicative skills of business language: speaking, lis-
tening comprehension, reading, writing, and cross-cultural awareness. Emphasis
is placed on developing proficiency in realistic contextualized situations encoun-
tered in the Hispanic business community.

385. Special Topics in Spanish (Subtitle)  (1-3 hours)
Prerequisite: Consent of instructor.
May be repeated for major or minor credit.

417. The Golden Age of Spanish Literature  (3 hours)
Prerequisite: One 300-level literature class and consent of instructor.
A study of representative works of the great dramatists, prose writers, and poets
of the 16th and 17th centuries. Emphasis will be placed on works of Cervantes,
Lope de Vega, Calderon, Tirso de Molina, and Gongora.

420. Advanced Stylistics  (3 hours)
Prerequisite: SPN 302.
This course is designed to help students refine their written communication
through practical exercises in both free and directed composition. Concentrates
on the development of form and style through the study of model texts by Hispanic
authors.

425. Seminar (Subtitle)  (3 hours)
Prerequisite: Junior or senior status or consent of instructor.
A concentrated study of selected authors, literary movements, or topics in
Spanish life and culture. Topics will vary from year to year. May be repeated for
major or minor credit.

480. Internship  (Variable credit up to 16 hours)
Prerequisite: Departmental approval.
A supervised program of field experience in which students make practical appli-
cation of their skills in Spanish in an approved establishment outside the
University. The department as a whole must approve the student's project, which
will be directed by an instructor and an on-site supervisor. No more than 3 hours
may be counted toward a Spanish major or minor.

485. Assistantship for Spanish 111-112  (1 hour)
Prerequisite: Permission of the instructor.
Selected Spanish majors or minors serve as assistants in SPN 111 or 112.
Assistants attend 2-3 classes per week, study the assigned work, and help con-
duct classroom and lab activities. Assistants may review but will not evaluate stu-
dents' work. Other duties will be determined by the instructor in consultation with
the assistant. In addition, the assistant will be required to complete a written
reflection on the experience. Does not count toward the major or minor.
Mandatory S/U grading. May not be repeated.
490. Supervised Independent Reading (1-3 hours)
Prerequisite: Consent of instructor.
An intensive reading program designed to provide in-depth examination of a particular author or theme in Spanish literature or culture. May be counted toward Spanish major. May not be repeated.

CLASSICAL LITERATURE (CLA)
No language prerequisite. These courses are recommended for general education credit (Humanities and Fine Arts), as electives, or to fulfill the requirements of the concentration in Classical Studies.

101. Epic, Lyric, and Tragedy (3 hours)
This course introduces students to three major genres of classical Greek and Roman literature. All texts are read in English translation and focus on themes such as the hero and the ancients’ view of their gods. The reading list includes some of the most prominent authors of classical literature, such as Homer, Sappho, Pindar, Aeschylus, Sophocles, Euripides, Catullus, Horace, Vergil, Propertius, and Ovid. In addition to close literary interpretations and discussions, the course offers an introduction to classical mythology and culture.

102. Comedy and Satire (3 hours)
This course introduces students to two genres which share a high degree of wit and humor, but which also deliver social and/or political criticism on a deeper level of meaning. All texts are read in English translation. The reading list includes authors such as Aristophanes and Menander (Greek comedy), Plautus and Terence (Roman comedy), as well as Horace, Persius, Martial, Juvenal, Petronius, and Seneca (all representatives of satire, a genre dominated by Roman writers).

CONTINENTAL LITERATURE (CON)
No language prerequisite. These courses are recommended for general education credit or as electives. They do not count toward majors or minors.

101. Survey of European Literature: From the Medieval Period to the Enlightenment (3 hours)
The study of selected works in translation. Emphasis is placed on those literary themes and movements that significantly reflect the artistic and intellectual currents of the Western tradition.

102. Survey of European Literature: 19th and 20th Centuries (3 hours)
The study of selected works in translation. Emphasis is placed on those literary themes and movements that significantly reflect the artistic and intellectual currents of the Western tradition.

GREAT BOOKS PROGRAM (GBK)
Tom Huber, Director/Professor of Biology
Margaret Dee Bratcher, Professor of Christianity
Peter Brown, Professor of Philosophy and Interdisciplinary Studies
Michael M. Cass, Pollock Professor of English and Interdisciplinary Studies
Gregory Domin, Associate Professor of Political Science
Joel A. Dopke, Assistant Professor of Chemistry
Mary Ann Drake, Chair/Professor of Interdisciplinary Studies
John Dunaway, Professor of Foreign Languages and Literatures
Sarah E. Gardner, Associate Professor of History
Jonathan C. Glance, Associate Professor of English; Director/First Year Seminar
Robert Good, Chair/Associate Professor of History
Curtis Herink, Professor of Mathematics
Eric C. Klingelhofer, Professor of History
Matthew Marone, Associate Professor of Physics
Andrew Pounds, Associate Professor of Chemistry and Computer Science
David Gregory Sapp, Assistant Professor of Christianity and Interdisciplinary Studies
J. Thomas Scott, Associate Professor of History
Diana Stege, Professor of English
John J. Stege, Professor of English
Charlotte S. Thomas, Chair/Associate Professor of Philosophy and Associate Professor of Interdisciplinary Studies
Eddie Thomas, Assistant Professor of Philosophy
Joanna M. Watson, Professor of Sociology
Jane Anna Weaver, Chair/Associate Professor of Foreign Languages and Literatures
Richard Wilson, Chair/Roberts Professor of Christianity

The Great Books curriculum of eight courses is one of two general education “tracks” in the College of Liberal Arts. The faculty of the College believes that careful study of the primary texts of Western thought and belief, guided by committed and rigorous instructors, is a valid means to a good general education.

Through this survey of literary, political, religious, philosophical, and scientific thought, students can increase their skills in disciplined thinking and effective writing, can heighten their moral and ethical reflectiveness, and can understand how the seminal ideas of the past have formed our twentieth-century world and our twentieth- and twenty-first century selves. The Great Books thus can provide both a ground and a goal for the specialized disciplines in which students major. Students choosing the Great Books track of the general education program are required to take eight three-hour courses, GBK 101, 202, 203, 304, 305, 306, 407, and 495.

All courses require substantial written work and may require attendance at additional lectures and events. Repeated failure to prepare for classes will result in a failing grade and dismissal from the curriculum.

GBK 101 and 202 are included in the Humanities and Fine Arts area of the Distributional Program. This allows a student to sample the Great Books curriculum before choosing between the two programs in general education. Any Great Books course may be taken for elective credit.

Engineering students may use courses from the Great Books Program to satisfy speech, humanities, and social science requirements, and should coordinate specific choices with their engineering advisor and the Director of Great Books.

Inquiries about the Great Books Program should be addressed to the Director, Great Books.

GBK 101 is a prerequisite for all other GBK courses.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisites</th>
<th>Course Description</th>
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</thead>
<tbody>
<tr>
<td>101</td>
<td>Among Gods and Heroes</td>
<td>3</td>
<td></td>
<td>The introductory course in the Great Books Program concentrates on the ancient Greeks and includes works by Homer, Aeschylus, Sophocles, Thucydides, and Plato.</td>
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<tr>
<td>202</td>
<td>Classical Cultures</td>
<td>3</td>
<td>GBK 101 or approval of the program director</td>
<td>Readings from such authors as Plato, Euclid, Aristotle, and Virgil.</td>
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<tr>
<td>203</td>
<td>The Hebrew and Christian Traditions</td>
<td>3</td>
<td>GBK 101 or approval of the program director</td>
<td>Readings in several books of the Old and New Testaments as well as selections from Augustine and Aquinas.</td>
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<tr>
<td>304</td>
<td>Order and Ingenuity</td>
<td>3</td>
<td>GBK 202 or 203; or approval of the program director</td>
<td>Readings from such authors as Dante, Chaucer, Machiavelli, Cervantes, Galileo, and Montaigne.</td>
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<tr>
<td>305</td>
<td>The Modern Worldview</td>
<td>3</td>
<td>GBK 202 or 203; or approval of the program director</td>
<td>Readings from such authors as Shakespeare, Bacon, Decartes, Pascal, Hobbes, Newton, Locke, Hume, and Milton.</td>
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<tr>
<td>306</td>
<td>Reason and Revolution</td>
<td>3</td>
<td>GBK 202 or 203; or approval of the program director</td>
<td>Readings from such authors as Rousseau, Goethe, Smith, Jefferson, Madison, Hamilton, Wollstonecraft, Kant, Tocqueville, Marx, Engels, Emerson, and Darwin.</td>
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<tr>
<td>309</td>
<td>Great Books Preceptorship</td>
<td>1</td>
<td>Three GBK courses</td>
<td>Selected upperclass students will serve as teaching facilitators in the Great Books Program in the public schools. Preceptors attend all classes, read the assigned work, participate in class discussions, and complete a final writing assignment. When the public school GBK class comes to campus for activities, the preceptor will help in hosting the events. This course will be graded on an S/U basis and may be taken only once.</td>
</tr>
<tr>
<td>407</td>
<td>The Age of Ambivalence</td>
<td>3</td>
<td>GBK 202, 203, and either GBK 304 or 305 or 306; or approval of the program director</td>
<td>Readings from such authors as Dostoevsky, Yeats, Mendel, Freud, Weber, and Nietzsche.</td>
</tr>
<tr>
<td>495</td>
<td>Special Topics</td>
<td>3</td>
<td>GBK 101 and at least junior status or approval of the program director</td>
<td>A study of texts, themes, or authors not covered in the regular offerings or an intensive study of a major work. Topics offered recently include “Great Books of the Far East” and “Great Books by Women Authors.”</td>
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</table>
HEALTH AND PHYSICAL EDUCATION (HED - PED)

Up to 3 hours credit may be offered toward graduation in the College of Liberal Arts and Stetson School of Business and Economics by taking the following courses. These courses will be graded on an S/U basis and carry 1 hour credit each: Beginning, intermediate, and advanced courses in tennis; square dancing; aerobics; and swimming.

PED 141A, 142A, 143A - Tennis
PED 141B - Golf
PED 141C - Archery
PED 141D - Body Development and Conditioning
PED 144A, 145A, 146A - Ballroom Dance
PED 144B - Ropes Course
PED 144C - Volleyball
PED 144D - Bowling
PED 144E, 145E, 146E, 147E, 148E - Swimming and Canoeing
PED 144F, 145F, 146F - Aerobics
PED 144G - Basketball
PED 144H - Racquetball

141-142-143. Applied Physical Education - (1 hour)
 Individual Activities
One hour credit each.
Beginning, intermediate, and advanced courses in (A) Tennis. Instruction in (B) Golf, (C) Archery, and (D) Body Development and Conditioning.

144-145-146-147-148. Applied Physical Education - (1 hour)
 Group Activities
One hour credit each.
Instruction in (A) Square Dancing, (B) Ropes Course, (C) Volleyball, (D) Bowling; (E) Swimming and Canoeing, (F) Aerobics, (G) Basketball, and (H) Racquetball.

149. Special Topics in Physical Education (1-2 hours)
Instruction in a PED activity not otherwise designated.

HED 150. Health Facts, Concepts, and Foundations in Contemporary Society (3 hours)
A course designed to make today's student aware of and informed about individual, community, and world health problems.

HED 218. Safety and First Aid (3 hours)
A study of the methods of caring for injuries and applying first aid to the injured, along with methods of preventing injuries and accidents. Areas of instruction will include standard first aid, cardio-pulmonary resuscitation, and treating athletic injuries.

HED 320. Health Education (Same as EDU 320) (3 hours)
A course designed to present methods and materials for the teaching of phases of health in the elementary and secondary school and the handling of school health problems. Included is a study of the opportunities for integration of materials on health with other subjects of the organized curriculum.
HED 388. Human Sexuality (3 hours)
A course to provide information on the biological, philosophical, and sociological aspects of human sexuality. General topics for study and discussion include sex education as education for love, the biological male, the biological female, human sexual response, contraception, intelligent choice of sexual conduct, and others.

PED 321. Physical Education in the Elementary School (3 hours)
A study of the techniques involved in the teaching of the various phases of physical and health education in the elementary school through a practical and a theoretical approach. (Field experience required.)

PED 330. Adapted and Therapeutic (3 hours)
Physical Education and Recreation
A course designed to provide information, insight, and knowledge about the characteristics and needs of typical individuals.

HISTORY (HIS)
Robert Good, Chair/Associate Professor
Jamie H. Cockfield and Eric C. Klingelhofer, Professors
Sarah E. Gardner and John Thomas Scott, Associate Professors

The goal of the History Department is to develop in students an appreciation of studying the past both for the wisdom it affords and for the ways in which studying history can promote critical thinking, effective communicating, and responsible citizenship. The curriculum exposes students to both the breadth and depth of historical inquiry, and successful majors will be able to demonstrate the knowledge and skills on which the discipline is based. This knowledge and these skills provide an appropriate background for graduate and professional school and many kinds of non-academic employment.

Majors are required to complete successfully ten or more courses (30 semester hours). The three introductory courses, HIS 111, 112, and 165, are required of all majors and will enable students to communicate a knowledge of both American History and the history of Western Civilization. The relevant introductory surveys are normally taken as preparation for upper-division courses. Students who receive at least three hours of either transfer or AP credit for introductory United States History are considered to have fulfilled the requirement for HIS 165. Majors are also required to take History 295, “The Historian’s Craft,” preferably in their sophomore year, but no later than their junior year. In their senior year, majors must complete HIS 495. Of the five remaining courses, at least one must be taken from the first two of the following categories, and at least two must be taken from the third.

1) Pre-Modern Europe and Non-Western (HIS 301, 302, 310, 315, 320, 321, 324, and 335)
2) Modern Europe (HIS 317, 318, 322, 325, 326, 327, 328, 330, and 332)

The distributional requirement among upper-division courses is not met by HIS 333, 340, 481, 491, 495, and 499. Only nine hours of credit in 100-level courses may be applied towards the major, and only six hours of credit in HIS 481, 491, and 499 may be applied toward the major. Upon successful completion of
the upper-level requirement, majors will be able to communicate a detailed knowledge of specific Pre-modern European, Modern European, and American historical eras and fields. They will also be proficient in historical methodology and both written and oral historical argumentation.

In their senior year, history majors must successfully complete a comprehensive examination. This examination assesses students’ ability to display both general and specific knowledge of the histories of America and Western Civilization and to interpret and argue historically.

A minor in history consists of at least five courses, three of which must be from the upper division (301 and above) and which must come from at least two of the categories listed above. Minors will be able to demonstrate similar knowledge and skills.

Students who major in history may attain Departmental Honors by earning a grade of B+ or better in HIS 495 and by attaining a grade point average of 3.75 in courses in the major and an overall grade point average of 3.50.

111. The Making of the West (3 hours)
A history of Western Civilizations from their Near Eastern origins through the formation of overseas empires, emphasizing the distinctive traditions and ideals that have come to define societies as Western.

112. The West and the Modern World (3 hours)
A globally conscious history of the social, political, and intellectual forces of the modern West. The development of distinct religious, regional, and cultural identities is emphasized, as is the West's role in shaping the modern world.

165. Problems in American History (3 hours)
A topical introduction to some of the major problems in American history from the sixteenth to the twentieth centuries. The course will focus on efforts to deal with a single problem or issue particular to American history. Topics to be investigated might include freedom, utopias, governmental power, race, technology, and wealth distribution. May only be taken once for credit towards graduation. Students entering Mercer prior to the Spring of 2000 who have taken HIS 151 or 152 will be considered to have satisfied the HIS 165 requirement for majors.

295. The Historian's Craft (3 hours)
Prerequisites: HIS 111, 112, or 165, and sophomore standing.
An introduction to basic historical vocabulary, historiography, source materials, and research and literary methodologies in the discipline of history, with a rigorous emphasis placed on improving writing and analytical skills. Required for the major; majors are strongly encouraged to take this course during their sophomore year and are required to take it before their senior year.

301. Ancient History: The Near East and Greece (3 hours)
A study of the rise of civilization in the Near East, its flowering in Greece, and its merging into a Mediterranean culture.

302. Ancient History: Rome (3 hours)
A study of the rise of Rome in the Italian peninsula, Roman hegemony over the ancient world, and its final dissolution.

310. The Middle Ages (3 hours)
A survey of the medieval world: the rise of Christianity and the Germanic West; the apogee of medieval civilization with Gothic architecture, scholasticism, and
chivalric tradition; and the late medieval impact of technology, commerce, and the nation-state.

315. Early Modern Europe (3 hours)
A comparative study of the intellectual, religious, political, and social structures and movements that defined Europe’s distinct identity between the fourteenth and eighteenth centuries. Themes include the development of Renaissance thought, conflicts over religion and devotion in the period of the Reformation, the growth of the monarchial state and conflicts between absolutism and constitutionalism, the birth of Europe’s colonial empires, and the rise of rationalism and secularism.

317. Europe in the Nineteenth Century (3 hours)
A general history of Western and Central Europe in the century after the Congress of Vienna. The course emphasizes the politics and diplomacy of the major European states.

318. Twentieth Century Europe (3 hours)
A general history of twentieth-century Europe, emphasizing totalitarianism’s threats to liberal institutions and ideals in continental Europe.

320. Medieval England (3 hours)
The development of England under the Norman and Plantagenet dynasties (1066-1485) with emphasis on evolving political, social, and economic institutions.

321. Early Modern Britain (3 hours)
A study of the peoples of the British Isles from the close of the Middle Ages through the eighteenth century. Topics include the development of distinct religious, cultural and national identities in Britain, the causes and consequences of the constitutional conflicts of the Civil Wars, the impact of Britain’s quest for a colonial empire, and the origins of the Industrial Revolution.

322. Modern Britain (3 hours)
A comparative study of the peoples of the British Isles since the eighteenth century with special emphasis on the birth and development of class identity, the impact of capitalism and the Industrial Revolution, the expansion and subsequent collapse of Britain’s empire, and on social and cultural conflicts since 1945.

324. Sub-Saharan Africa to Independence (3 hours)
(Same as AFR 324)
A study of sub-Saharan Africa before and during imperialism, with an emphasis on social and cultural history. Literature, anthropology, and sociology are used to examine the effects of European rule on African cultures.

325. The Old Regime and the French Revolution (3 hours)
The central issues of French history from the reign of Louis XIV to 1799: late feudal society and Bourbon absolutism, the globalization of French interests, the culture and ideas of the Enlightenment, and the French Revolution.

326. Modern France (3 hours)
A social, political, and cultural history of France since 1815, emphasizing the intrusion of national interests and culture on traditional provincial life. Sources include fiction, memoirs, and films.

327. The Rise of Modern Russia (3 hours)
A history of the political, social, economic, religious, and intellectual development of Kievan and Muscovite Russia and the formation and ascendancy of the Russian Empire to 1855.
328. The Russian Empire and the Soviet Regime (3 hours)
Russian history since 1856 with emphases on social, political, and diplomatic developments, the Russian Revolution, and the rise of the Soviet state.

330. The First and Second World Wars (3 hours)
An examination of the technology, military campaigns, war aims of the belligerents, and development of strategy and tactics during and between the world wars of the twentieth century.

332. An Intellectual History of Modern Europe (3 hours)
A study of the Western identity in its rational, romantic, and existential forms. Close attention is given to the relation of ideas to social change since the Renaissance.

333. Russian History Study Tour (3 hours)
Prerequisite: One HIS course or permission of the instructor.
A study tour to historic and cultural points of interest in Moscow, St. Petersburg, and one other Russian city. Seminars, to be conducted both aboard and on campus, may include such topics as the history of the Kremlin; post-Cold War Russian society; Peter the Great and the westernization of Russia, and the like. Several papers will be required. The travel component of this course may be offered during May Term or between fall and spring terms. If the latter, students will officially enroll in and complete the work for the course during the following spring term.

335. Women and Gender in Early Modern Europe (3 hours)
(Same as WGS 335)
An examination of changing notions of gendered identity and authority with particular focus on ideas concerning the body, sexuality, and the family in European culture from the dawn of modernity during the Renaissance through the cataclysmic changes of the nineteenth-century Industrial Revolution. Topics include the life-cycles of early modern people, religious and medical theories relating to the body and sexuality, structures of family-life and attitudes towards domestic violence, as well as the impact of class, nationality, and ethnicity on gender and identity.

340. Critical Themes in Western Civilization (3 hours)
A course dealing with crucial themes that transcend conventional fields of Western history. The course will be team-taught by several or all members of the History Department and will examine themes, common to several historical areas.

352. Colonial and Revolutionary America (3 hours)
The development of a noticeably American society from its European, African, and Indian roots. Subjects examined include cultural interaction, early Chesapeake and New England settlements, mercantilism, the Great Awakening, and the causes of revolution.

353. Jeffersonian and Jacksonian America (3 hours)
An examination of the early republic. Attention is paid to political, social, and economic topics, including the Constitution and political parties, reform movements, revivalism, slavery, westward expansion, industrialism, and democratic and republican ideologies.

354. Frontier and Indian History (3 hours)
A survey of eastern North American Indians and their relationship with Europeans on the frontier from earliest contact to the Indian Removal of the 1830s.
include Indian culture and society, changes in Euro-Indian relationships over time, and the impact of the frontier on European-American history.

356. The Civil War and Reconstruction (3 hours)  
(Same as AFR 356)  
A study of the causes of the American Civil War, the major military campaigns and engagements, and the problems of the nation after the war.

361. The Old South (3 hours)  
(Same as AFR 361)  
The study of the American South from the beginnings of European settlement to the Civil War. Slavery, the development of southern culture, and other topics are emphasized.

362. The New South (3 hours)  
(Same as AFR 362)  
A study of the American South from Reconstruction to the present. Race relations, the evolution of southern culture, and other topics are emphasized.

363. African American History (3 hours)  
(Same as AFR 363)  
An overview of the African American experience with emphasis on the following topics: life under slavery; conditions among free blacks during the antebellum period; actions of blacks during the Civil War and Reconstruction; reactions of blacks to the rise of virulent white racism after Reconstruction; and the roots, achievements, and transformation of the civil rights movement.

365. History of Georgia (3 hours)  
A political, economic, social, and cultural survey of Georgia from its founding to the present day.

370. Intellectual History of America (3 hours)  
A study of the main economic, political, religious, and social ideas that have shaped American history from its European origins to the present.

377. U.S. Women’s History, Colonial Era to the Present (3 hours)  
(Same as WGS 377)  
A study of the meaning and place of women in U.S. society from the colonial era to the present by reading major secondary works and selected primary documents in the field. Students will address major themes in U.S. women's history, including family, sexuality, work, and reform, within the broader context of American history. In addition, this course addresses the historiography, implications, methodologies, and future directions of the discipline.

380. Changing Interpretations of American History (3 hours)  
A survey devoted to a study of American historians and their changing interpretations of the major periods and events in American history.

481. Seminar on Selected Topics in American History (3 hours)  
A seminar involving reading, discussion, and independent research of a specific topic in American history.

491. Seminar on Selected Topics of European History (3 hours)  
A seminar involving reading, discussion, and independent research of a specific topic in European history.
495. Research Seminar in History (3 hours)
Prerequisite: HIS 295.
A course restricted to students majoring in history. Emphasizing intensive research conducted by the individual student and directed by instructors, the seminar enables students to compare historical methods and perspectives, examine specific historical problems, and sharpen their skills as researchers and writers.

499. Supervised Independent Research (3 hours)
Prerequisite: Junior or senior status and consent of the instructor.
Intensive reading on a selected topic in an area of special interest to the student. The program of study must be agreed upon with the instructor and cleared with the chair of the department in advance of registration.

HONORS PROGRAM (HON)
Wilfred C. Platt, Jr., Professor of History, Emeritus, and Director of the Honors Program
Michael M. Cass, Professor of English
Gregory Domin, Associate Professor of Political Science
Mary Ann Drake, Chair/Professor of Interdisciplinary Studies
Richard C. Fallis, Dean of the College of Liberal Arts
Sarah E. Gardner, Associate Professor of History
Carolyn Goff, Assistant Professor of Music
Robert Good, Chair/Associate Professor of History
D. Randall Harshbarger, Visiting Professor of Interdisciplinary Studies
Gordon R. Johnston, Associate Professor of English
Mary C. Kot, Chair/Associate Professor of Biology
Frank Macke, Professor of Communication and Theatre Arts
R. Scott Nash, Associate Professor of Christianity
David Nelson, Chair/Associate Professor of Mathematics
Arthur Salido, Assistant Professor of Chemistry
John Thomas Scott, Associate Professor of History
Charlotte S. Thomas, Chair/Associate Professor of Philosophy and Associate Professor of Interdisciplinary Studies
Edward Thomas, Assistant Professor of Philosophy
Richard F. Wilson, Roberts Professor of Theology
Marian Zielinski, Professor of Communication and Theatre Arts

Each undergraduate school or college on the Macon campus has an Honors Program. Through its Honors Program, the College of Liberal Arts seeks to enrich the learning environment for both students and faculty members. By doing so, it invites new and higher levels of excellence in student research and creative accomplishment. It particularly works to foster a sense of academic community among faculty members and students of outstanding abilities through classes, discussion, and attendance at cultural and artistic events.

Entering freshmen of outstanding potential are invited to participate in the College Honors Program. Among the indicators of potential for success in this program are high school grade point average, class rank, SAT scores, performance in the scholarship competition during Scholarship Weekend, and understanding of the benefits of an Honors education.
Participation in the Program is by invitation only. The size of the program is strictly limited to achieve the goals of academic community that are at its core. In most cases, invitations to enter the Honors Program are extended prior to a student's first semester at Mercer. Occasionally, students beyond the first semester and transfer students may also be invited to join. Students who have accumulated more than 60 semester hours credit towards the baccalaureate degree cannot be admitted to the Program.

Students who enter the Program will be expected to achieve and maintain a cumulative Mercer grade point average of 3.5 or better. Program participants whose cumulative grade point averages fall below 3.4 will be placed on Program probationary status for a semester. If they do not restore the 3.5 cumulative grade point average in the succeeding semester, or if they fall beneath such a grade point average in any succeeding semester, they will not be allowed to continue in the Program.

Those students fulfilling all requirements for the College Honors Program in addition to their bachelor’s degrees will receive their degrees with “University Honors” if they have attained grade point averages of 3.5 or above on all work completed at Mercer.

Program Curriculum

First Year

Complete HON 101 and HON 102, and complete GBK 101 in either the fall or spring semesters with a grade point average of 3.5 or higher.

Second Year

Complete HON 201, HON 202, and one course with the “Honors Option” designation. For each Honors Option course, a contract will be developed between the student and the course instructor prior to the term in which the course is offered, subject to the approval of the Program Director. All such contracts must require either additional or qualitatively more demanding academic products. The contracts may require hands-on experience, data-gathering, creative work, as appropriate.

Third Year

Complete HON 301, another Honors Options course, and HON 396. Of the two “HONORS Option” courses taken during the Second and Third years, one must be in the Major.

Fourth Year

Complete HON 401, a Senior Capstone course with a B+ (3.5) or higher, and HON 496 successfully.

101-102. Honors Seminar (1 hour)
Students meet weekly in a seminar format to read, write about, and discuss works relating to plays, art exhibits, lectures, seminars and other cultural events on campus and in the surrounding community which they attend. They also participate in community-building activities such as dinners, social gatherings and work on the C.O.P.E. course. The seminars are letter-graded and carry one hour of credit; students participate in 101 in the Fall semester and 102 in the Spring.
201-202. Topical Seminar (1 hour)
Students meet weekly in a seminar format to read, write about, and discuss works relating to some topic chosen annually for current relevance by the students and Honors Director. In addition, students attend and participate in discussions on plays, art exhibits, lectures, seminars and other cultural events. They also participate in community building-activities such as dinners and social gatherings. The seminars are letter-graded and carry one hour of credit; students participate in 201 in the Fall semester and 202 in the Spring.

301. Cultural Events (0 hour)
Students attend and participate in discussions on plays, art exhibits, lectures, seminars, and other cultural events. They also participate in community-building activities such as dinners and social gatherings. This course lasts throughout the full academic year.

396. Project Preparation Seminar (3 hours)
In this seminar, students develop ideas for their senior projects, learn how to pursue these ideas, and produce project proposals. They present and discuss their ideas, exposing classmates to the variety of content and methods used in creative and research-based disciplines. The course is taken during the Spring semester of the third year.

401. Cultural Events (0 hour)
Students attend and participate in discussions on plays, art exhibits, lectures, seminars, and other cultural events. They also participate in community-building activities such as dinners and social gatherings. This course lasts throughout the full academic year.

496. Senior Project (3 hours)
The project may take one of a variety of forms, ranging from creation of an artistic work to research in the student’s major discipline. Each student works with an advisory committee, one of whose members is the Honors Program Director and one a designee from the student’s major department. A third member may be appointed if needed. In performance disciplines, juries fulfill the role of advisory committees. The project culminates with a public presentation. If a student is seeking credit for the project in conjunction with departmental honors, credit earned in HON 496 counts only in the department. The course may last throughout the full academic year.

INFORMATION SCIENCE AND TECHNOLOGY (IST)
David L. Cozart, Chair/Professor
Robert Allen, Andrew J. Pounds, and Laurie White, Associate Professors
Esmail Bonakdarian, Andrew Digh, Marshall Rich, and Martin Zhao, Assistant Professors
Jane Ann Williams, Director, Professional Certification Program

The Computer Science Department offers majors in Information Science and Technology that lead to either the Bachelor of Science or the Bachelor of Arts degree. Information Science and Technology (IST) is a newly emerging academic discipline with theoretical foundations rooted in computer science, mathematics, and other scientific disciplines. IST focuses on the integration of the latest technology to solve real-world problems for the end user. This program is interdis-
ciplinary in nature in that it applies technology to solve problems in a variety of disciplines. To acquire this interdisciplinary knowledge, IST students must complete the IST requirements as well as a minor in a different academic area.

The Bachelor of Science degree in Information Science and Technology provides students with a broad IST core that includes an introduction to programming, databases, networks, operating systems, and web design. Students also complete an emphasis in either Computer Programming, Internet Development, or Computer Networks. Each of these emphasis consists of three courses. Four advanced courses in IST together with a senior design course complete the IST requirements for the B.S. degree. IST majors are also required to complete two mathematics courses and one technical communication course. An internship is available as an option within the major. A minor in another academic area is also required.

The Bachelor of Arts degree in Information Science and Technology requires the same broad IST core as found in the B.S. degree. Four additional IST courses must be completed to provide depth in specific areas. IST majors seeking the B.A. degree are also required to complete two IST electives numbered 300 or above, two mathematics courses, and a minor in another academic area. An internship is available as an option within the major. The B.A. degree has the flexibility of allowing students to pursue a second major.

The Computer Science Department also offers the Bachelor of Science and the Bachelor of Arts degrees in Computer Science. For a complete description of this program, see the listing for Computer Science elsewhere in the Bulletin.

The Computer Science Department provides course work in the area of Computer Information Systems for the School of Business. Students interested in combining computer science and business should consider this program of study.

The Computer Science Department provides course work in the area of Computer Engineering for the School of Engineering. Students interested in designing both software and hardware should consider this program of study.

Requirements for B.S. in Information Science and Technology

All students must complete Items 1-6 below as well as all CLA general education requirements:

1. IST Core (22 hours):
   IST 126. Introduction to Information Science and Technology
   CSC 204. Programming I
   CSC 206. Visual Programming I
   IST 220. Introduction to Databases
   IST 221. Introduction to Networks
   IST 222. Introduction to Operating Systems
   TCO 285. Document and Web Design

2. Select one emphasis from the following: Programming, Internet Development, or Computer Networks (3 courses: 9-10 hours)
   a. Programming
      CSC 205. Programming II
      IST 350. Software Engineering Tools
      IST 463. Advanced Database Development
b. Internet Development
   IST 276. Introduction to Internet Programming
   IST 351. Dynamic Content Delivery
   IST 461. Web Server Issues

c. Computer Networks
   IST 277. LAN & WAN Technologies
   IST 352. Network Operating Systems Use and Integration
   IST 462. Network Security

3. Information Science and Technology Electives (3 courses: 9 hours)
   One course from three of the four areas.
   a. CSC 212. Programming Language (subtitle)
      IST 311. Scripting Languages
      IST 313. Visual Programming II
   b. IST 316. Network Protocols
      IST 277. LAN and WAN Technologies
      CSC 360. Computer Networks
   c. CSC 312. Database Systems
      IST 318. Database Administration
   d. BUS 349. Management Information Systems
      IDM 470. Management Information Systems

4. Senior Design (2 courses: 6 hours). One course from each of the areas a and b:
   a. IST 470. Senior Project Design I
   b. IST 471. Senior Project Design II
      IST 472. Information Technology Internship

5. Mathematics (2 courses: 6 hours). Also satisfies Gen Ed Math requirement:
   MAT 141. Calculus for the Social Sciences (or MAT 191)
   MAT 226. Elementary Statistical Methods (or MAT 320)

6. Communication (1 course: 3 hours):
   TCO 341. Technical Communication

Requirements for B. A. in Information Science and Technology

All students must complete Items 1-5 below as well as all CLA General Education requirements:

1. IST Core (22 hours)
   IST 126. Introduction to Information Science and Technology
   CSC 204. Programming I
   CSC 206. Visual Programming I
   IST 220. Introduction to Databases
   IST 221. Introduction to Networks
   IST 222. Introduction to Operating Systems
   TCO 285. Document and Web Design
2. Select one of the following courses (1 course: 3 hours):
   CSC 205. Programming II
   IST 276. Introduction to Internet Programming
   IST 277. LAN & WAN Technologies
3. Information Science and Technology Electives (3 courses: 9 hours):
   One course from each of three areas:
   a. IST 311. Scripting Languages
      IST 313. Visual Programming II
   b. IST 316. Network Protocols
      CSC 360. Computer Networks
   c. CSC 312. Database Systems
      IST 318. Database Administration
   d. BUS 349. Management Information Systems
      IDM 470. Management Information Systems
4. Two additional IST electives numbered 300 or above (2 courses: 6 hours)
5. Mathematics (2 courses: 6 hours)
   MAT 141. Calculus for the Social Sciences (or MAT 191)
   MAT 226. Elementary Statistical Methods (or MAT 320)

Requirements for the Minor in Information Science and Technology

A minor in IST consists of a minimum of 17 hours, including:
1. IST 126. Introduction to Information Science and Technology
2. At least six hours in IST courses numbered 300 or above

Note: CSC 204, CSC 205, and CSC 206 may be used in satisfying the requirement of at least 17 hours.

126. Introduction to Information Science and Technology (3 hours)

Prerequisites: Computer literacy and consent of the instructor.
This course serves as a broad introduction to information technology concepts. Course will include a laboratory component for practical experience in computer system design and troubleshooting as well as in introductory programming. Topics to be covered include information technology ethics, computer law and impact of technology on society, security and recovery systems, professional certification programs, computer networks, and introduction to programming.

220. Introduction to Databases (3 hours)

Prerequisite: IST 126.
This course serves as an introduction to database management systems and their role in information technology. The course will include a laboratory component for practical experience in several database systems. Topics to be covered include database building blocks, database design, and database implementation.

221. Introduction to Networks (3 hours)

Prerequisite: IST 126.
This course serves as an introduction to network fundamentals. Course will
include a laboratory component for practical experience in network design and implementation. Topics to be covered include networking terminology, network theory, standards bodies, network models and cabling techniques.

**222. Introduction to Operating Systems** (3 hours)
Prerequisite: IST 126.
This course serves as an introduction to computer operating systems from the user’s and administrator’s points of view. Course will include a laboratory component for practical experience in operating system administration and use. Topics to be covered include interface usage, user administration, file security, event tracking, scalability, troubleshooting and resource sharing.

**276. Introduction to Internet Programming** (3 hours)
Prerequisite: CSC 204.
This course provides the foundational skills required for Internet programming. Course will include a laboratory component for practical experience in language usage. Topics to be covered include hypertext markup language, dynamic hypertext markup language, cascading style sheets, JavaScript and VBScript.

**277. LAN & WAN Technologies** (3 hours)
Prerequisite: IST 221.
This course expands upon the concepts introduced in IST 221 with emphasis placed upon wide area networks and integration. Course will include a laboratory component for practical experience network design and implementation. Topics to be covered include communication mediums, Ethernet, token ring, ATM, frame relay, FDDI, wireless technologies, VPN’s, public and private network integration and data encryption.

**285. Topics in Information Science and Technology** (1-4 hours)
Prerequisite: Consent of the instructor.
An intensive study of some significant topic in Information Science and Technology not otherwise covered in departmental course offerings. Variable credit, 1-4 hours. May be repeated with different topics, but total credit may not exceed 8 hours.

**311. Scripting Languages** (3 hours)
Prerequisites: IST 222 and CSC 206; or CSC 205.
This course serves as a survey of computer scripting languages and techniques for various computing environments. Course will include a laboratory component for practical experience in scripting application. Topics to be covered include overview of scripting languages; DOS script fundamentals, Unix script fundamentals, and Internet scripting languages.

**313. Visual Programming II** (3 hours)
Prerequisite: CSC 206.
This course expands upon the concepts started in Visual Programming I with a look at additional visual languages. Course will include a laboratory component for practical experience in language usage. Topics to be covered include sequential files, database bound controls, common Active X controls, creating Active X controls, using VBA in Access, MDI applications, creating class modules, the Windows API and VBScript.

**316. Network Protocols** (3 hours)
Prerequisites: IST 221 and IST 222; or CSC 360.
This course serves as a survey of the concepts, design and implementation of
various network protocols including TCP/IP, IPX/SPX, NetBEUI and AppleTalk. Course will include a laboratory component for practical experience protocol design and implementation. Topics to be covered include industry models, features, environmental concerns, and efficiency.

318. Database Administration (3 hours)
Prerequisite: IST 220.
This course provides the knowledge required to properly design, implement and maintain a complex database management system. Course will include a laboratory component for practical experience in database management using a modern database system. Topics to be covered include hardware configurations and considerations, logical database layouts, physical database layouts, managing the development process, monitoring multiple databases, database tuning, database security and auditing, optimal backup and recovery procedures, managing distributed databases and configuring client/server and Web environments.

350. Software Engineering Tools (3 hours)
Prerequisite: CSC 205.
This course explores software engineering methods and tools for application development. Course will include a laboratory component for practical experiences using a variety of industry standard design tools. Topics to be covered include design and system organization, using and creating reusable libraries, building, testing, debugging, performance evaluation and simple interface design.

351. Dynamic Content Delivery (3 hours)
Prerequisites: Either CSC 205 or CSC 206; and either IST 276 or CSC 485; Web Development.
This course explores the techniques used for server-side and client-side delivery of dynamic Internet content. Course will include a laboratory component for practical experience content design and delivery. Topics to be covered include WWW programming, client-side fundamentals, client-side programming, server-side fundamentals, and server-side programming.

352. Network Operating Systems Use and Integration (3 hours)
Prerequisite: IST 277 or CSC 360.
This course is a survey of the use, administration and integration of various network operating systems. Course will include a laboratory component for practical experience in industry standard network operating system administration. Topics to be covered include installation, configuration, integration, remote access services and troubleshooting.

461. Web Server Issues (3 hours)
Prerequisites: IST 222 and IST 351; or CSC 460.
This course examines a variety of different Web servers with respect to capabilities, security, administration, and drawbacks. Course will include a laboratory component for practical experience in designing and maintaining a Web server. Topics to be covered include strengths and weaknesses of various Web servers, Web server installations, Web server configuration, data security on Web servers, Webmaster responsibilities and management skills, and Web site scalability.

462. Network Security (3 hours)
Prerequisite: IST 352 or CSC 360.
This course is a study of the many issues relating to network security. Course will include a laboratory component for practical experience in properly securing and
monitoring a network. Topics to be covered include footprinting, scanning, enumeration, operating system vulnerabilities, securing remote access, network device security features, firewall implementation, remote control security concerns, and security management.

463. Advanced Database Development (3 hours)
Prerequisites: IST 220 and IST 350; or CSC 312.
This course takes a detailed look at software development within various data dependent environments. Course will include a laboratory component for practical experience in database development using a modern database system. Topics to be covered include principles of object-oriented data models (classes, encapsulation, and object identity), schema evolution, views, authorization, transaction management and secondary storage management.

470. Senior Project Design I (3 hours)
Prerequisite: Completion of the first course in an IST emphasis.
This course is an advanced practicum in computer science. Students design, document, and test software systems for use in local industry, in university departments, or government laboratories. They gain practical experience by working closely with project sponsors from these organizations and review ongoing projects. Students also gain extensive experience in oral and written communication through presentations throughout the software lifecycle.

471. Senior Project Design II (3 hours)
Prerequisite: IST 470.
This course provides the student with the opportunity for actual implementation of projects developed within IST 470. Team-based project implementation will be emphasized.

472. Information Technology Internship (3 hours)
Prerequisite: IST 470.
This course is implemented as a directed internship within the local Information Technology community. Students will gain valuable hands-on experience with the knowledge learned during their academic career.

485. Topics in Information Science and Technology (1-4 hours)
Prerequisite: Consent of the instructor.
An intensive study of some significant topic in Information Science and Technology not otherwise covered in departmental course offerings. Variable credit, 1-4 hours. May be repeated with different topics, but total credit may not exceed 8 hours.

INTERDISCIPLINARY STUDIES (IDS)
Mary Ann Drake, Chair/Professor
Peter Brown, Michael Cass, Robert J. Hargrove, and Diana Stege, Professors
David G. Nelson, Charlotte S. Thomas, R. Scott Nash, and Linda Hensel, Associate Professors
David Gregory Sapp, Assistant Professor
Randall Harshbarger, Visiting Assistant Professor
Pamela V. Johnston, Visiting Instructor

The Department of Interdisciplinary Studies consists of five multi-disciplinary programs that provide a holistic and integrated approach to a liberal education by
bringing the resources of our heritage and disciplines to bear on contemporary cultural issues and concerns. For the description of these programs of study, see the following headings in this Bulletin:

FIRST-YEAR SEMINAR (FYS)
FIRST-YEAR SEMINAR EXPERIENTIAL (FYX)
GREAT BOOKS (GBK)
SCIENTIFIC INQUIRY (SCI)
SENIOR CAPSTONE PROGRAM (SCP)

JOURNALISM (JRN)

101. Introduction to Mass Media (3 hours)
(Same as CTA 165)
A study of the nature and history of mass communications, including print, broadcast, and online media.

220. Introduction to Media Writing (3 hours)
An introduction to writing in a professional environment and to the forms of mass media writing, including news stories, public relations releases, and advertising copy for print, broadcast, and online information sources. Lab activities complement classroom instruction.

232. Feature Writing (3 hours)
Prerequisites: JRN 220.
This course will teach the basic techniques of good feature writing, including how to present information so it is compelling, entertaining, and perhaps inspirational.

310. Research Methods (3 hours)
(Same as CTA 310)
Prerequisite: Consent of the instructor.
This course will familiarize students with major research techniques including content analysis, survey research, data analysis, and field studies as practiced by reporters, editors, and public relations decision-makers.

322. News Reporting (3 hours)
Prerequisites: JRN 220.
This course will emphasize news-gathering techniques used in print, broadcast, and online media. The course is designed to develop and hone skills in fact-gathering and writing. Special emphasis is given to news judgment and collecting information from primary and secondary sources; story structure, writing quality, editing and revising, speed with accuracy and clarity; and responsibility in reporting. Lab activities will complement classroom instruction.

324. Depth Reporting (3 hours)
Prerequisite/Corequisite: JRN 322.
This course focuses on investigative reporting with an emphasis on in-depth news-gathering techniques to prepare students for reporting public affairs in print/broadcast media. Depth reporting encompasses coverage of local, state, national government, courts and criminal justice, campaigns and elections, business and economics, education, science and health, religion, and sports.
330. Editing and Design  (3 hours)
Prerequisite/Corequisite: JRN 322.
This course will teach students to prepare copy and related material for publication, with emphasis on professional writing, editing accuracy, clarity and presentation using desktop publishing techniques. Lab activities complement classroom instruction.

331. Advanced Editing  (3 hours)
Prerequisites: JRN 330.
This course is designed to give students the opportunity to heighten their knowledge of reporting, writing and editing techniques used in the presentation of information. Major topics covered in the course are copy editing, publication design, information graphics, photo editing, and publishing on the World Wide Web. Lab activities complement classroom instruction.

370. Public Relations: Theory and Methods  (3 hours)
( Same as CTA 370)
This course will address the scope and modern role of public relations with an emphasis on case studies, lectures, and experimentation with major public relations tools and practices.

380. Practicum in Journalism  (1 hour)
Prerequisites: Student must have had, or be taking concurrently, at least one of the following: JRN 220, 232, 322, 324. Consent of the instructor is required. Practical experience in working on the student newspaper. May be repeated for up to 3 credit hours. Graded on an S-U basis.

381. Online Journalism  (3 hours)
Prerequisite: JRN 331 or consent of the instructor.
This course will bring students into close collaboration with industry professionals to provide hands-on perspectives and working examples of interactive journalism. Students will explore online journalism's ongoing evolution, apply tools of the trade, and interact with experts in the field. Lab activities will complement classroom instruction.

390. Special Topics in Journalism  (3 hours)
Prerequisites: Junior or senior standing or consent of the instructor. A study of some significant topic in journalism or mass communication which is not available through regular course offerings. May be taken twice, with different topics, for a maximum of six hours credit.

400. Communication Ethics  (3 hours)
( Same as CTA 400)
Prerequisite: Junior or senior status or consent of the instructor. An examination of ethics in communication with consideration given to conflicting modes of communication in contemporary society.

401. Media Law  (3 hours)
( Same as CTA 401)
Prerequisite: Consent of the instructor. This course is designed to give students an understanding of the legal environment that affects mass communication professionals, including journalists, public relations practitioners and advertising professionals. The course examines the historical development of the notion of free expression, explores the legal limita-
tions on expression, and seeks to develop a framework for evaluating the fluid legal landscape that communicators face.

498. Journalism Internship (1-3 hours)
Prerequisite: Nine hours of journalism courses, junior standing, and consent of the instructor.
An internship of at least 10 weeks with an approved news medium, public relations or publicity agency, or other suitable publication or agency. The student will serve as an apprentice under professional supervision with regular consultation with his/her journalism professor at Mercer. May be repeated for a total maximum of 6 hours.

LEARNING SKILLS (LSK)

Freshmen or upperclassmen interested in improving their study skills are encouraged to enroll. Because the courses are individualized, they may be taken out of sequence. There are no prerequisites.

185-186. College Study Skills (1 hour)
The purpose of this course is to enable students to improve their college study skills. The course is highly individualized, with topics such as time management, note taking, test taking, and improving concentration. It is appropriate for upperclassmen, including those considering graduate study. The two courses may be taken in any sequence. Students taking a second course will continue to develop skills acquired the previous semester. Open to freshmen with consent of instructor. Each course offers one hour credit and may not be repeated for additional credit. Grading: S-U.

MANAGEMENT (MGT)

For description of the program of study in this area, and of the courses offered, see the section EUGENE W. STETSON SCHOOL OF BUSINESS AND ECONOMICS in this Bulletin.

MARKETING (MKT)

For description of the program of study in this area, and of the courses offered, see the section EUGENE W. STETSON SCHOOL OF BUSINESS AND ECONOMICS in this Bulletin.

MATHEMATICS (MAT)

David G. Nelson, Chair/Associate Professor
Phillip W. Bean and Curtis D. Herink, Professors
Mary Hope McIlwain, Associate Professor
Jeffrey K. Denny, Kedrick Hartfield, and Carolyn Yackel, Assistant Professors
Sybil Blalock, Instructor
Gloria Bass, Visiting Instructor

Either MAT 095 or a satisfactory score on the mathematics placement exam is prerequisite to all other mathematics courses except MAT 104.
The Department offers both Bachelor of Arts and Bachelor of Science degrees in mathematics. All majors are required to pass a senior comprehensive examination in mathematics and to take the following core courses: MAT 191, 192, 260, 293, 340, 499, and CSC 204.
The Bachelor of Arts degree requires 30 hours in mathematics and 4 hours in computer science. The requirements are the core courses, either MAT 461-462 or MAT 481-482, and two additional courses numbered 320 or above.

The Bachelor of Science degree requires 36 hours in mathematics, 8 hours in physics, and 4 hours in computer science. The requirements are the core courses; three courses chosen from MAT 461, 462, 481, and 482; PHY 161, 161L, 162, 162L; and three additional mathematics courses numbered 320 or above.

The Department recommends that those students planning to pursue graduate study in mathematics select their mathematics electives from MAT 320, 330, 335, 350, 462, and 482. Those students planning to pursue a doctoral degree are also strongly advised to take GER 111-112 or FRE 111-112.

Those students planning careers in teaching mathematics in secondary schools must take MAT 350. The Department recommends that they choose their mathematics electives from MAT 320, 461-462, and 481-482. In addition, MAT 225 is recommended.

The Department recommends that those students planning a career in applied mathematics choose their mathematics electives from MAT 320, 330, and 335. In addition, MAT 225 is highly recommended.

Majors may attain Departmental Honors in mathematics by meeting the following requirements: (1) apply for honors during the second semester of the junior year; (2) attain a grade point average of 3.50 in the mathematics courses applied toward the major; (3) enroll in MAT 402 and complete a research paper under the direction of a faculty member in the department; (4) present the results of the research in colloquium; (5) receive departmental approval for the entire project.

The requirements for a minor in mathematics are MAT 191, 192, and either option (a) 260 and two additional courses numbered 320 or above; or option (b) 225, 340, and one additional course numbered 320 or above.

095. Intermediate Algebra (3 hours)
Credit earned in MAT 095 does not count toward the minimum number of hours required for graduation. An introductory course in algebra which includes the study of the fundamental algebraic operations, factoring, algebraic fractions, equations and inequalities, exponents and radicals.

104. Introduction to Finite Mathematics (3 hours)
This course is designed to provide students with some insight into the beauty and challenge of mathematics and its impact on society. Topics include logic, shape, quantity, change, uncertainty and some fundamental dichotomies (finite and infinite, discrete and continuous).

121. Concepts in Calculus (3 hours)
Prerequisite: MAT 095 or equivalent.
The course emphasizes the concepts in differential and integral calculus and applications of those concepts. The material is made accessible to students with a limited mathematical background by restricting attention to a simple class of functions—polynomial functions in most cases and rational functions where appropriate.

133. Precalculus (4 hours)
Prerequisite: MAT 095 or equivalent.
Topics include graphs, functions (linear, quadratic, polynomial, rational, exponen-
141. Calculus for the Social Sciences (3 hours)
Prerequisite: MAT 133 or equivalent.
Students who have not completed MAT 133 and who plan to register for this course should take the mathematics placement exam. A high score on this exam will meet the prerequisite for the course. A study of the derivative of algebraic, exponential, and logarithmic functions and an introduction to integration. Business applications are stressed. Credit cannot be earned in both MAT 141 and MAT 191. Students who plan to major in mathematics, chemistry, computer science, or physics should take MAT 191.

191. Calculus I (4 hours)
Prerequisite: MAT 133 or equivalent.
Students who have not completed MAT 133 and who plan to register for this course should take the mathematics placement exam. A high score on the exam will meet the prerequisite for the course. Topics include: A study of functions involving limits, continuity, derivatives, and antiderivatives; the definite integral and Fundamental Theorem of Calculus. Credit can be earned for only one of MAT 141 and 191.

192. Calculus II (4 hours)
Prerequisites: MAT 191 and or consent of the instructor.
Topics include: Methods of numerical integration, applications of the definite integral, techniques of antidifferentiation, improper integrals, infinite series, differential equations, and polar coordinates.

225. Topics in Discrete Mathematics (4 hours)
Prerequisite: MAT 191.
Topics include sets, functions, Boolean algebra, elementary graph theory, techniques of counting, and methods of proof (including induction and contradiction).

226. Elementary Statistical Methods (3 hours)
Prerequisite: MAT 095 or equivalent.
An introduction to basic descriptive and inferential statistics. Includes measures of central tendency and variability; the binomial, normal, student’s t, and chi-square distributions; correlation techniques involving Pearson’s r. The emphasis is on applications rather than on mathematical theory. Credit for MAT 226 will not be granted after credit has been earned in MAT 320.

260. Introduction to Abstract Mathematics (3 hours)
Prerequisite: MAT 192.
A course designed to facilitate the transition to mathematics courses in which the student is expected to prove theorems. Topics include sets, logic, methods of proof, relations, and number systems.

293. Multivariable Calculus (3 hours)
Prerequisite: MAT 192.
Topics include vector calculus; limits and continuity of functions of several variables; partial derivatives and applications; multiple integrals and applications.

320. Introduction to Probability and Mathematical Statistics (3 hours)
Prerequisite: MAT 192.
A study of sample spaces, conditional probability and independent events; ran-
variables and their distributions both discrete and absolutely continuous; expected value; variance, and regression; Law of Large Numbers and Central Limit Theorem; sampling; estimation; testing of hypotheses. Credit for MAT 226 will not be granted after credit has been earned in MAT 320.

330. Introduction to Differential Equations (3 hours)
Prerequisite: MAT 192.

335. Numerical Methods (3 hours)
(Same as CSC 335)
Prerequisites: MAT 192 and ability to write programs in a high-level computer language.
A study of numerical methods for the solution of mathematical problems and computer application of those methods. Topics will include: methods such as the bisection algorithm and fixed point iteration for the solution of equations with a single variable, interpolation and polynomial approximation, numerical differentiation and integration, solution of systems of linear equations, and least squares approximation. Offered infrequently.

340. Linear Algebra (3 hours)
Prerequisites: MAT 225 or 260 or consent of instructor.
An introduction to the algebraic structure of vector spaces; the theory of matrices; the application of matrices to the study of vector spaces; systems of linear equations and linear transformations.

350. College Geometry (3 hours)
Prerequisite: MAT 340.
A rigorous study of the properties of Euclidean geometry, with special attention to incidence and metric properties, and introduction to elementary properties of non-Euclidean geometries. Offered infrequently.

390. Topics in Mathematics (Subtitle) (1-3 hours)
Credit will be determined based on the particular topic studied. A student may receive hours awarded as one, two, or three, and no more than three hours per course will be awarded, and total hours given will not exceed six. When credit in the proposed course is given, the topic studied will be stated as a subtitle.

401. Directed Independent Study (3 hours)
Prerequisite: Consent of instructor.
This course is intended to provide the student with the opportunity to study independently in an area of interest. Arrangement with the department chair and the instructor is required.

402. Directed Independent Research (3 hours)
Prerequisite: Consent of instructor.
This course is intended to provide the student with the opportunity to do supervised research in an area of interest. Arrangement with the department chair and instructor is required.

461-462. Abstract Algebra I and II (3 hours)
Prerequisite: MAT 340.
A study of groups, rings, and fields. Topics will include homomorphisms of groups and rings, quotient structures, polynomial rings, and extension fields. Offered alternate years. Offered academic year 2003-2004.

**481-482. Real Analysis I and II** (3 hours)
Prerequisites: MAT 293 and 340.
A rigorous introduction to the system of real numbers; a study of the consequences of continuity, differentiability, integrability, and the elementary topology of the real numbers. Offered alternate years. Offered academic year 2004-2005.

**499. Senior Seminar in Mathematics** (1 hour)
A course designed to help students take a broad view of their mathematics education and to synthesize the disparate components of this education. Students will be expected to organize and deliver a mathematical presentation.

**MILITARY SCIENCE (MIL)**

Major David P. Krah, Chair/Professor
Sergeant First Class Michael Cockrell, Instructor

The ROTC four-year program is divided into a basic course, which encompasses the freshman and sophomore years, and the advanced course, which encompasses the junior and senior years. The two-year program is designed for students who make the decision later in college to join ROTC and seek an Army commission as a 2nd Lieutenant. Students enrolling in the two-year program attend a 35-day Leader's Training Course at Fort Knox, Kentucky, between their sophomore and junior years. Students may enroll in any ROTC course offered; however, if the student is enrolled in the program for commissioning credit, completion of the basic course or basic course credit is a prerequisite for enrollment in the advanced course. Military science courses include a weekly leadership lab, physical training (for scholarship students, juniors and seniors), and one three or four-day field training exercise per semester (for juniors and seniors). Students may compete for two and three-year Army scholarships.

**Basic Courses**

**101. Introduction to the Army I** (2 hours)
An introduction to the fundamental organization of the United States Army, Army Reserve and Army National Guard. Also included is an explanation of customs and traditions of military service, an introduction to basic first aid techniques, orienteering and general military subjects. Increased self confidence is gained through team study and activities in Basic Drill, Physical Fitness as well as small unit operations in both classroom and outdoor environments. One hour class and a required Leadership Lab plus optional participation in a three physical training program. Participation in weekend training exercises is also optional. May not be taken on S/U basis.

**102. Introduction to the Army II** (2 hours)
A continuation of Introduction to the Army I, this course continues with an understanding of the role of the Officer, Non Commissioned Officer and Warrant Officer in today's Army. Learn and apply the basic principles of effective leadership in both a classroom and laboratory environment and through interaction with upper division ROTC cadets. Classes in general military subjects continue, to include
leadership development. One hour class and a required Leadership Lab plus optional participation in a three physical training periods per week. Participation in weekend training exercises is also optional. May not be taken on S/U basis.

201. Leadership I  
Explore the leadership process through the study and application of ethics-based leadership skills that contribute to the building of effective teams/groups. Develop skills in oral presentation, planning of events, coordination of group efforts, advanced first aid, land navigation and basic military tactics. Learn the fundamentals of the ROTC Leadership Assessment Program. Two hours and a required Leadership Lab plus optional participation in a thrice-weekly physical training program. Participation in weekend training exercises is also optional. May not be taken on S/U basis.

202. Leadership II  
Introduction to individual and team aspects of military tactics in small unit operations. Includes the use of effective communication skills, making safety assessments, tactical movement techniques, planning for team safety and security and method for pre-execution checks. Learn techniques for training others as an aspect of continued leadership development. Two hours and a required Leadership Lab plus optional participation in a thrice-weekly physical training program. Participation in weekend training exercises is also optional. May not be taken on S/U basis.

Advanced Courses

301. Tactics I  
The study of principles, methods and techniques used by successful leaders. Practical exercises in leadership, drill, command, and communications. Emphasis on physical fitness, squad operations and leadership. May not be taken on S/U basis.

302. Tactics II  
Study of and practical exercises in the application of small unit tactics and the practical applications of leadership. Study of principles, methods, and techniques used by successful leaders. General study of military history, and its application to modern tactics and leadership. May not be taken on S/U basis.

401. Command and Staff Functions  
Comprehensive studies of the procedures, policies, and functions of Army staffs and commanders. This continues the study of leadership as it applies to the military system, and introduces military ethics, military justice and Army training doctrine. May not be taken on S/U basis.

402. Transition to Lieutenant  
This course is a comprehensive study of the primary duties of a junior Army officer. Course of instruction focuses on those skills needed by the new 2nd Lieutenant to assume their role in the Army leadership system. May not be taken on S/U basis.

Additional Courses

451. Advanced Theory of Military Leadership I  
An independent study of military leadership at senior level echelons and the development of the US Army from its primitive origin to the present. Available only
to MS V cadets who continue to receive ROTC scholarship after the completion of the advanced course.

**452. Advanced Theory of Military Leadership II (1 hour)**
An independent study to define the role of the military in the year 2030. Research the likely missions the United States Military will confront. Available only to MS V cadets who continue to receive ROTC scholarship after the completion of the advanced course.

**MUSIC (MUS)**

John N. Roberts, Chair/Professor
Douglas M. Hill and Robert W. Parris, Professors
Ian H. Altman, Martha L. Malone, and Stanley L. Roberts, Associate Professors
Montgomery C. Cole, Carol Goff, Giselle Hillyer, and David Johnson, Assistant Professors
Robert McDuffie, Distinguished University Professor of Music
Adrian Gnam and Charles "Skip" Snead, Artists-in-Residence
Kyle Ferrill, Instructor of Music
Lisa Lombardo, Nancy Rehberg, Jean Roberts, and Marie Roberts, Senior Lecturers
Barbara Altman, Charles Anderson, Terence Cantwell, Emory Clements, Anne Davis, William Granger, Roger McVey, Rowena Renn, Brad Ritchie, Suann Strickland, and Kelly Via, Lecturers

Mercer University is an accredited Institutional Member of the National Association of Schools of Music.

**MISSION STATEMENT:** The Department of Music seeks excellence in the several areas of musical learning including professional training, scholarly achievement, and the study of music (both for majors and non-majors) within a liberal arts context.

An audition is required for incoming students who plan to major in music. Prospective music majors should contact the chair of the department for an appointment to audition. Scholarships are available; students will be considered for such scholarships when they audition. Music students are initially accepted into the Department of Music as intended music majors. During the second year of study, each music student who desires to proceed into upper level study toward a specific music major must request permission to pursue that major using the "Acceptance to Music Major" form. A 3.0 applied music GPA and a 2.0 academic music GPA are required to be accepted as a music major, and to remain in good standing. A student may be provisionally accepted with the understanding that the expected GPA levels will be attained within another academic year of study. Applied music examinations (juries) will be given at least twice per year, at which time the student's progress will be evaluated. The rigor with which the audition and the examinations are judged will vary depending on the student's degree program. A student deemed to be making insufficient progress for a degree program will be dropped from that program.

Transfer credits and advanced placement credit in music theory will be accepted contingent upon examination. This will ensure that the student is placed in the appropriate music theory course for his or her ability.

Students will perform regularly in Concert Practice and in departmental recitals. All music majors and intended music majors must enroll in Concert...
Practice, MUS 156. During the senior year, the student will undertake a major project in keeping with the program of studies within the music major. This project may take the form of a recital, a senior thesis, conducting an ensemble, or a composition. In case of a senior project other than a recital (B.A. degree only), the student must enroll in MUS 480 Special Topics in the senior year. The student may request a faculty advisor for the project, but the final assignment will be made by the department chair. The project will be planned in consultation with the student's applied music teacher or departmental advisor, as appropriate, and the plan will be submitted for departmental approval no later than October 15 of the fall semester of the senior year.

Majors may be selected by the department of Music Faculty for Departmental Honors in Music by completing the following requirements: (1) Maintain an overall 3.5 grade point average in music (2) Present a senior project that is pursued and completed on a level significantly higher than would normally be required for a senior project. The project should be submitted to the Music Chair no later than October 15. In the case of the Bachelor of Music in Performance degree, the project must be a recital which is appropriate in repertoire level and performance standard for honors consideration.

All intended music majors are expected to begin theory and applied music in their freshman year. Therefore, MUS 105 (a and b) and 106 (a and b) are normally scheduled for the freshman year and MUS 256 (a and b) and 257 (a and b) for the sophomore year. It is expected that each of these courses will serve as a prerequisite for the one following it. All degrees in music require a minimum of 15 hours in music courses numbered 300 or above.

A minor in music consists of the following: five semester hours selected from MUS 160-460, 161-461, 162-462, 163-463, and twelve academic semester hours from other courses in music. Six hours must be earned in courses numbered 300 or above.

Students whose applied music area is other than keyboard and who exempt MUS 109-110 must substitute two hours, and such students who exempt MUS 209-210 must substitute four hours earned through individual keyboard applied lessons.

Private Instruction: A limited number of students can be accepted for individual lessons in voice, organ, harpsichord, piano, strings, winds, guitar, and percussion. A special fee is charged for this instruction. Students must be taking other courses at Mercer in order to be eligible to take lessons. Exceptions must be cleared with the chair of the department.

**BACHELOR OF ARTS IN MUSIC**

**Music**

MUS 105a, 105b, 106a, 106b, 256a, 256b, 257a, 257b; MUS 109, 110, 209, 210, or 139, 140, 213, 214, or 141, 142, 238, 239; MUS 356 or 359; three courses selected from MUS 411, 412, 413, 414; seven semester hours from 160-460, 161-461, 162-462, 163-463; three additional academic Music courses (see the Music Student Handbook for description of degrees offered).

**General Education**

Music majors in the B.A. program will meet all the general education requirements of the Liberal Arts College.
Additional Requirements

1. A minimum of 72 recitals must be attended in order to graduate.
2. A minimum of 84 hours outside of music is required to graduate.
3. A senior project is required as described above.
4. The student must participate regularly in the University Choir, the Mercer/Macon Symphony Youth Orchestra, or the University Wind Ensemble or some other regularly organized performing ensemble designated by the department chair.
5. All students in this program will be required to pass an examination covering functional keyboard and sight-singing skills. It is intended that this requirement be met during the second semester of the sophomore year.
6. Application for acceptance to this program is normally made by March 1 of the sophomore year.

BACHELOR OF MUSIC EDUCATION

Music

MUS 105a, 105b, 106a, 106b, 256a, 256b, 257a, 257b; 109, 110, 209, 210, or 139, 140, 213, 214, or 141, 142, 238, 239; 160-460 (7 hours-choral emphasis) or 161-461 (7 hours-piano emphasis) or 163-463 (7 hours-instrumental emphasis); 182, 190 (7 hours-choral emphasis) or 191, 192 (7 hours-instrumental emphasis); 340; 341 (choral emphasis) or 342 (instrumental emphasis); 350, 356, 359, 411, 412, 413, 414.

Education

Students who intend to teach music at either the elementary or secondary level. Mercer’s program in Music Education (P-12) is accredited by the State of Georgia. The requirements include the following courses: EDUC/MUS 221, 222, 223, 224, 370, 372, 474 or 475, as well as EDUC 220, 225, 256, 357, 383, 492. Music Education majors must meet all the requirements for the Department of Teacher Education to be eligible for certification.

General Education

The music student must take all of the courses in the Common Core of the General Education Program. In addition, the student must complete 12 credit hours from either the Great Books Program or the Distributional Program. If the former the following courses must be completed from the Great Books Program: GBK 101 and three other GBK courses. If the Distributional Program is selected, the following courses must be completed: from the Behavioral Science, Social Sciences, and Cultural Studies options, one course from Group 1; from the Humanities and Fine Arts options, one course from each of Groups 1, 2, and 3.

Additional Requirements

1. A minimum of 72 recitals must be attended in order to graduate.
2. A minimum of 41 hours outside of music is required to graduate.
3. A senior project is required as described above.
4. All students in this program will be required to pass an examination covering functional keyboard and sight-singing skills. It is intended that this requirement be met during the second semester of the sophomore year.

5. Application for acceptance to this program normally is made by March 1 of the sophomore year.

BACHELOR OF MUSIC IN PERFORMANCE

Music

MUS 105a, 105b, 106a, 106b, 155a, 155b, 155c (voice majors only), 256a, 256b, 257a, 257b; 109, 110, 209, 210, or 139, 140, 213, 214, or 141, 142, 238, 239; 155a, 155b, 155c (vocal majors); 160, 161, 162, 163 or 169 (4 hours); 265-465, 266-466, 267-467, 268-468, or 271-471 (24 hours); 182, 190 (8 hours) or 191, 192 (8 hours); 313, 314, 316, or 317; 340, 356, 359, 411, 412, 413, 414, 438 or 439.

General Education

The music student must take all of the courses in the Common Core of the General Education Program. In addition, the student must complete 12 credit hours from either the Great Books Program or the Distributional Program. If the former the following courses must be completed from the Great Books Program: GBK 101 and three other GBK courses. If the Distributional Program is selected, the following courses must be completed: from the Behavioral Science, Social Sciences, and Cultural Studies options, one course from Group 1; from the Humanities and Fine Arts options, one course from each of Groups 1, 2, and 3.

General Electives

1. Voice majors must take six hours of electives; instrumental and guitar majors must take nine hours of electives; keyboard majors must take twelve hours of electives. A maximum of 3 hours in a secondary applied performance area may count as an elective area of study. Credit for secondary applied areas will be given at the rate of 1 hour credit per semester for a half-hour lesson per week.

2. It is strongly recommended that voice majors take a minimum of 6 hours of a second foreign language (French or German).

Additional Requirements

1. All students in this program will be required to pass an examination covering functional keyboard and sight-singing skills. It is intended that this requirement be met during the second semester of the sophomore year.

2. A minimum of 72 recitals must be attended in order to graduate.

3. A minimum of 41 hours outside of music is required to graduate.

4. The senior project must be a recital; a junior recital is also required. Students must research and write program notes for both recitals.

5. A special audition is required for admittance to this program.

6. Application for acceptance to this program is normally made by March 1 of the sophomore year.
BACHELOR OF MUSIC IN SACRED MUSIC

Music

MUS 105a, 105b, 106a, 106b, 256a, 256b, 257a, 257b; 109, 110, 209, 210, or 139, 140, 213, 214, or 141, 142, 238, 239; 160, 161 or 162 (4 hours); 160, 260, 265, 365, or 161, 261, 266, 366, or 162, 262, 267, 367 (24 hours); 182, 190 (8 hours); 320, 331, 332, 340, 341, 356, 359, 411, 412, 413, 414.

General Education

The music student must take all of the courses in the Common Core of the General Education Program. In addition, the student must complete 12 credit hours from either the Great Books Program or the Distributional Program. If the former the following courses must be completed from the Great Books Program: GBK 101 and three other GBK courses. If the Distributional Program is selected, the following courses must be completed: from the Behavioral Science, Social Sciences, and Cultural Studies options, one course from Group 1; from the Humanities and Fine Arts options, one course from each of Groups 1, 2, and 3.

General Electives

Bachelor of Music in Sacred Music majors must take six hours of electives. A maximum of 3 hours in a secondary applied performance area may count as an elective area of study. Credit for secondary applied areas will be given at the rate of 1 hour credit per semester for a half-hour lesson per week.

Additional Requirements

1. The program is open only to students whose applied music major is keyboard or voice. Those with keyboard as the applied major (24 hours) will have voice as the applied minor (4 hours) or vice versa.
2. The senior project will be in two parts as follows:
   a. a recital comparable in scope and difficulty to the junior recital for the Bachelor of Music in Performance. Program notes will be required.
   b. a research paper dealing normally with the recital, but in any case, a topic approved by the faculty jury committee.
3. All students in this program will be required to pass an examination covering functional keyboard and sight-singing skills. It is intended that this requirement be met during the second semester of the sophomore year.
4. A minimum of 72 recitals must be attended in order to graduate.
5. A minimum of 41 hours outside of music is required to graduate.
6. A special audition is required for admittance to this program.
7. Application for acceptance to this program is normally made by March 1 of the sophomore year.

103. Acoustical Foundations of Music (2 hours)
(Same as PHY 103)
A study of the relevant concepts of physics as applied to the acoustical aspects of music reproduction, listening environments, and hearing. A lecture and laboratory course.
104. Elements of Music (3 hours)
An introduction to the building materials of music, intended for students with little or no musical background. Principal topics include scales and keys, rhythm, harmony, and form in music, as well as ways in which these combine to produce satisfying and logical results. Class sessions include lectures, listening to music, and a variety of participatory activities. Not intended for music majors.

105a-106a. Music Theory I-II (2 hours)
Prerequisite: Each course is a prerequisite for the next one in the sequence. Review of theory fundamentals. Introduction to the tonal procedures of the Common Practice period including diatonic harmony, part-writing, simple analysis, and two-part counterpoint.

105b-106b. Musicianship Skills I-II (1 hour)
Prerequisite: Each course is a prerequisite for the next one in the sequence. Ear training, sight singing, and supportive keyboard harmony. To be taken concurrently with MUS 105a and 106a.

109-110. Class Piano I and II (1 hour)
Prerequisite: Each course is a prerequisite for the next one in the sequence. Basic musicianship through elementary keyboard skills. Includes basic playing skills such as reading, fingering, technique, and elementary repertoire. Also includes functional and theoretical skills such as intervals, chord spelling, chord types, simple progressions, voice leading, and harmonizations. Courses will meet two hours weekly. To be taken concurrently with MUS 105a-106a by students who do not exempt keyboard lab.

139. Organ/Harpsichord Skills I (1 hour)
This course concentrates on non-cantus firmus based and continuo improvisational skills. To be taken concurrently with 105a by students whose applied area is organ/harpsichord.

140. Organ/Harpsichord Skills II (1 hour)
This course continues the development of keyboard improvisational skills from the MUS 139. To be taken concurrently with 106a by students whose applied area is organ/harpsichord.

141. Piano Pedagogy and Accompanying I (1 hour)
This course focuses on functional keyboard skills, accompanying skills and elementary pedagogical skills for the piano major. Practical participation will be required. To be taken concurrently with MUS 105a by students whose applied area is piano.

142. Piano Pedagogy and Accompanying II (1 hour)
This course continues the development of keyboard skills from MUS 141. To be taken concurrently with MUS 106a by students whose applied area is piano.

151. Understanding Music (3 hours)
A non-technical course designed for those who have little or no musical training. Elements of music, contributions and musical style of major composers, and characteristic styles and forms of the various cultural periods will be emphasized. Not intended for music majors.

152-153. Jazz Improvisation I-II (1 hour)
Prerequisite: Ability to play and understand major scales.
All major or non-major instruments and voice types will gain knowledge in the basic theory of jazz harmony and melody. They will learn the language of jazz improvisation through the study of prescribed melodic patterns that can be placed in common chord progressions in jazz music. The objective of this course is to enable students to be creative in music without notated pitches.

155a. Vocal Diction I (1 hour)
Introduction to the diction of English and Italian. Pronunciation taught will be based on the International Phonetic Alphabet. (Offered every fall semester.)

155b. Vocal Diction II (1 hour)
Introduction to the diction of German. Pronunciation taught will be based on the International Phonetic Alphabet. (Offered spring semester of even years.)

155c. Vocal Diction III (1 hour)
Introduction to the diction of French. Pronunciation taught will be based on the International Phonetic Alphabet. (Offered spring semester of odd years.)

184. Flute Choir (1 hour)
Prerequisite: Permission of instructor.
Flute Choir is a course designed to explore and perform flute music from the Renaissance through the twentieth century. The primary focus is to explore the musical literature for an ensemble of flutes. Open to all students. An audition/interview is required.

209-210. Class Piano III and IV (1 hour)
Prerequisite: MUS 110 or its equivalent as determined by placement tests.
Each course is a prerequisite for the next one in the sequence. Advanced musicianship through keyboard skills. Advanced reading skills and intermediate level repertoire will be stressed along with functional and theoretical skills such as harmonizations, modulation, realization of figured bass, and accompanying. Courses will meet two hours weekly. To be taken concurrently with MUS 256a-257a by students who complete or exempt MUS 109-110 unless MUS 209-210 are exempted as well.

213. Organ/Harpsichord Skills III (1 hour)
This course concentrates on cantus firmus based and continuo improvisational skills. To be taken concurrently with MUS 256a by students whose applied area is organ/harpsichord.

214. Organ/Harpsichord Skills IV (1 hour)
A course examining the organ literature of the twentieth century, with emphasis on American repertoire, and improvisation in contemporary styles. To be taken concurrently with MUS 257a by students whose applied area is organ.

221. Performance and Instruction Techniques: Woodwinds (2 hours)
(Same as EDUC 221)
Development of personal performance skills on flute, clarinet, saxophone, oboe and bassoon; knowledge of the technical considerations of the other members of the flute, clarinet, and saxophone families of instruments. Instruction in methods and techniques for elementary and secondary school music teachers. Survey and evaluation of materials and equipment. (Fall, even year)
222. Performance and Instruction Techniques: 
Percussion
(2 hours)  
(Same as EDUC 222)  
Development of personal performance skills on snare drum, timpani, mallet 
instruements and other commonly used percussion instruments. Instruction in 
methods and techniques for elementary and secondary school music teachers. 
Survey and evaluation of materials and equipment.  
(Spring, odd year)

223. Performance and Instruction Techniques: Brass 
(2 hours)  
(Same as EDUC 223)  
Development of personal performance skills on cornet or trumpet, horn, trom-
bone, euphonium, and tuba. Instruction in methods and techniques for elemen-
tary and secondary school music teachers. Survey and evaluation of materials 
and equipment.  
(Fall, odd year)

224. Performance and Instruction Techniques: 
Stringed Instruments
(2 hours)  
(Same as EDUC 224)  
Development of personal performance skills on violin, viola, violoncello, and dou-
ble bass. Instruction in methods and techniques for elementary and secondary 
school music teachers. Survey and evaluation of materials and equipment.  
(Spring, even year)

238. Piano Pedagogy and Accompanying III
(1 hour)  
This course focuses on advanced functional keyboard skills, accompanying skills, 
and pedagogical skills for the piano major. Practical participation will be required. 
To be taken concurrently with MUS 256a by students whose applied area is piano.

239. Piano Pedagogy and Accompanying IV
(1 hour)  
This course continues the development of keyboard skills from MUS 238. To be 
taken concurrently with MUS 257a by students whose applied area is piano.

256a-257a. Music Theory III-IV
(2 hours)  
Prerequisite: MUS 106a. 
Each course is a prerequisite for the next one in the sequence. Continuation of 
harmonic practices, to include chromatic harmony, modulation, analysis, and two-
part counterpoint.

256b-257b. Musicianship Skills III-IV
(1 hour)  
Prerequisite: MUS 106b. 
Each course is a prerequisite for the next one in the sequence. Continuation of 
ear training, sight singing, and supportive keyboard harmony. To be taken concur-
rently with MUS 256a and 257a.

258-259. Beginning Composition
(1 hour)  
Prerequisite: MUS 106a or permission of the instructor. 
Instruction designed to broaden the musical horizon, to introduce students to a 
wide range of contemporary styles and techniques, and to utilize this knowledge 
successfully in composition projects.

313. Literature and Materials for Organ/Harpsichord
(3 hours)  
This course focuses on keyboard literature from its beginning to the organ litera-
ture of the present.  
(Spring, odd year)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
<th>Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>314</td>
<td>Literature and Materials for Piano</td>
<td>3 hours</td>
<td>This course focuses on keyboard literature from the Robertsbridge Codex (1320) through the piano composers of the present.</td>
<td>Spring, odd year</td>
</tr>
<tr>
<td>316</td>
<td>Literature of the Instrument</td>
<td>3 hours</td>
<td>The study, analysis and cataloguing of solo works, chamber works, and other ensemble works for the student's major instrument. Interpretation, literature, and pedagogical materials will be covered.</td>
<td>Spring, odd year</td>
</tr>
<tr>
<td>317</td>
<td>Song Literature</td>
<td>3 hours</td>
<td>German, French, and English song will be studied. Emphasis will be on the contributions of major composers of the art song and the development of repertoire for voice students.</td>
<td>Spring, odd year</td>
</tr>
<tr>
<td>320</td>
<td>Sacred Vocal Literature</td>
<td>3 hours</td>
<td>A study of music for solo voice on sacred texts. The topic is approached chronologically with discussion of the earliest traditions of solo singing in the context of Christian worship, of applicable repertoire from the late sixteenth and early seventeenth centuries, of the so-called sacred art song of the nineteenth and twentieth centuries, and a broad range of cantata and oratorio arias. Larger works (e.g., song cycles and solo cantatas) and repertoire for specific occasions and purposes within the church year will also be discussed. Format will include lectures, listening, and lab performances.</td>
<td>Spring, even year</td>
</tr>
<tr>
<td>331</td>
<td>Church Music Methods</td>
<td>2 hours</td>
<td>A study of choral and instrumental repertoire for use in churches; discussion of topics pertaining to the administration of church music programs, church staff relationships, children's choir techniques, and others. Format will include lectures, reading sessions, and class projects.</td>
<td>Spring, odd year</td>
</tr>
<tr>
<td>332</td>
<td>History of Church Music</td>
<td>2 hours</td>
<td>A chronological and stylistic survey of various forms of church music conducted within the context of church history. Areas covered will include the early Christian era and the rise of hymnology, the Reformation and Counter-Reformation, developments resulting from the evolution of various Protestant groups, text-music relationships, and trends of church music in the 20th century.</td>
<td>Fall, odd year</td>
</tr>
<tr>
<td>340</td>
<td>Basic Conducting</td>
<td>2 hours</td>
<td>Prerequisites: MUS 105a and 105b. A study of the basic techniques of conducting a musical ensemble. Two class sessions plus a one-hour practicum each week.</td>
<td></td>
</tr>
<tr>
<td>341</td>
<td>Advanced Choral Conducting and Literature</td>
<td>2 hours</td>
<td>Prerequisite: MUS 340. A study of choral rehearsal procedure including ways of obtaining the proper balance, tone, and other properties of the choral sound. A survey of the choral music and performance practice of the various stylistic periods will be included. Two class sessions plus a one-hour practicum each week.</td>
<td>Spring, even year</td>
</tr>
<tr>
<td>341</td>
<td>Advanced Instrument Conducting and Literature</td>
<td>2 hours</td>
<td>Prerequisite: MUS 340. Analysis of wind ensemble literature of various styles and periods to determine interpretive dimensions; proper rehearsal and baton techniques will be emphasized. Two class sessions plus a one-hour practicum each week.</td>
<td>Spring, even year</td>
</tr>
</tbody>
</table>
350. Orchestration (3 hours)  
Prerequisites: MUS 105a and 105b or permission of the instructor. It is also recommended that the student have several years of successful experience in band or orchestra performance; in lieu of this, MUS 221 through 224 are recommended. Acquiring working knowledge of standard band and orchestral instruments regarding playing ranges, technical limitations, and tone-color possibilities in solo and combination. Guidance and practice in scoring for various combinations of instruments. Performance of class work when practical.  
(Fall, odd year)

356. Form and Analysis (3 hours)  
Prerequisite: MUS 257a.  
The study of melodic and phrase procedures, leading to the examination of binary and ternary structures. Analysis of representative examples of the larger forms, including sonata, rondo, variations, etc. Study of important twentieth century concepts, including extended tonality, neo-classicism, atonality, and serialism, as well as recent compositional developments.  
(Spring, odd year)

357. Music Technology (3 hours)  
Prerequisite: MUS 105, MUS 151, or permission of instructor.  
A survey of techniques used in the creation of computer music. Students acquire abilities with hardware and software for notation, MIDI sequencing, patch editing, algorithmic composition, synthesis, digital recording, and sound editing. Supplemental material on acoustic and history and repertoire of electroacoustic music will be included in lectures, readings, and listening assignments. Emphasis placed on practical experience in the department's computer music lab.  
(Spring, even year)

359. Counterpoint (3 hours)  
Prerequisite: MUS 257a.  
Contrapuntal technique of the eighteenth century. Students acquire written skills in a variety of texture and genres common to Baroque music, with an emphasis on two and three-part imitative counterpoint. Includes analysis of representative literature.  
(Spring, even year)

370. The Elementary School Music Specialist (3 hours)  
(= EDUC 370)  
Methods and techniques for structuring and guiding music education in the elementary school. Particular attention to the development of children's voices. Acquaintance with Orff and Kodaly approaches. Field study in elementary school classrooms. Intended for music education majors.  
(Spring, odd year)

372. The Secondary School Music Program - Methods and Techniques (3 hours)  
(= EDUC 372)  
Effective procedures for recruiting, organizing, and maintaining a successful program of vocal and instrumental music instruction and performance in the secondary schools. Discussion of philosophies of music education. Field study of successful programs and discussions with leaders in the music education profession will be included.  
(Fall, even year)

411. Music From the Middle Ages through the Early Baroque Period (3 hours)  
A study of music history from the Middle Ages through the late seventeenth cen-
tury, with some attention to the music of the ancient Greeks. Stylistic developments, musical forms, and contributions of representative composers of the Middle Ages, Renaissance, and the Early Baroque Era are discussed.

(Fall, odd year)

412. Music from the Mature Baroque through the Classic Period

Developments in music during the eighteenth century, with particular emphasis given to major French, German, and Italian baroque composers, to the galant style, and to Viennese classicism.

(Spring, even year)

413. Music in the Romantic and Post-Romantic Periods

Stylistic developments of the nineteenth century and their implications for the future. Romanticism and a number of post-romantic trends, with discussion of representative composers from the mature Beethoven to Richard Strauss and his contemporaries.

(Fall, even year)

414. Modern Music, with an Overview of World Music

Development of music from the pre-World War I period to the present day, followed by an introduction to ethnomusicology and a survey of topics in traditional and non-western musical cultures.

(Spring, odd year)

438. Vocal Pedagogy

Designed for the potential voice teacher, this course will survey the literature and vocal techniques used in private and class instruction of voice students. Those enrolled will teach beginning voice students under the supervision of the instructor.

(Spring, even year)

439. Pedagogy of Orchestral Instruments

Prerequisite: Permission of the applied music instructor. Survey of the pedagogical history, pedagogical literature, and technical methods of the given instrument. Teaching methods explored for private and group settings. Supervised teaching of elementary students is required.

(Spring, even year)

474. Advanced Choral Methods

(pager as EDUC 474)

This course will encompass the organization of choral music programs at all age levels. Administrative aspects, rehearsal techniques, contest procedures, trip planning, and recruitment/retention methods will be emphasized. Observation and analysis of successful choral programs will also be included.

(Fall, even year)

475. Advanced Instrumental Methods

(pager as EDUC 475)

This course deals with the organization of public school bands, orchestras, and instrumental programs; organization and administration of the successful marching band program; rehearsal; techniques; instrumental classes; program building and maintenance; contests and trip planning. Observation and analysis of successful instrumental programs in the schools will also be included.

(Fall, odd year)

478. Opera Workshop

Prerequisites: Consent of voice faculty and permission of director. Audition required.

The ensemble performs Mercer University Opera productions. At least one fully
staged and costumed production is given each year, ranging from entire operas to scenes from standard opera and music theatre works. May be repeated for a total of 6 hours.

480. Special Topics in Music (Subtitle) (1-3 hours)
Prerequisite: Junior or Senior status or consent of instructor.
A study of some significant topic in music not otherwise covered in departmental course offerings. The specific topic will be chosen by the instructor according to the needs of the students and will be stated as a subtitle on the schedule of the semester in which the course is to be offered. Each topic must be approved by the chair of the department. May be repeated with a different topic.

Applied Music Courses

156. Concert Practice (0 hour)
A weekly performance seminar, required of every student majoring in music for each semester of official enrollment at Mercer University. The class meets for one hour per week. Individual performance skills are developed in a nurturing environment where faculty openly discuss the students’ presentations. Each student normally performs in class at least twice per semester. Classwork culminates in a public student recital each month. (S/U grading)

157-158. Classroom Voice Instruction (1 hour)
The study of applied voice in a class setting. This course is designed for the non-music major (with little or no background in music) who wishes to learn the fundamentals of good singing. Students who successfully complete this sequence will be encouraged to take individual lessons in voice. One class session plus a one-hour practicum each week.

The following applied music courses are open to general education students as well as to music majors. One hour of academic credit is awarded for one thirty-minute lesson each week during the semester; two hours of academic credit are awarded for one sixty-minute lesson each week during the semester. Students who enroll in these courses are charged an applied music fee; the fee is assessed at fifteen 30-minute or 60-minute lessons, according to the number of hours for which the student has enrolled.

160-260-360-460. Voice (1-2 hours)
Prerequisite: Permission of instructor.
Voice majors register for 2 hours credit. In addition to their private lessons, students may be required to attend a one-hour class session each week. Students must earn 4 hours in each number before moving to the next higher number.

161-261-361-461. Piano (1-2 hours)
Piano majors register for 2 hours credit. Students must earn 4 hours in each number before moving to the next higher number.

162-262-362-462. Organ (1-2 hours)
Prerequisite: Pianistic ability satisfactory to instructor.
Organ majors register for 2 hours credit. Students must earn 4 hours in each number before moving to the next higher number.

163-263-363-463. Orchestra and Band Instruments (1-2 hours)
Instrumental majors register for 2 hours credit. Students must earn 4 hours in each number before moving to the next higher number.
164-264-364-464. Composition (1-2 hours)
Prerequisites: MUS 258-259 or permission of instructor.
Instruction designed to impart specific objective compositional techniques leading to a synthesis of musical elements through original compositional projects. Includes aural and intellectual exposure to a broad range of contemporary compositional styles. Students must earn 4 hours in each number before moving to the next higher number.

169-269-369-469. Harpsichord (1-2 hours)
Harpsichord majors register for 2 hours credit. Students must earn 4 hours in each number before moving to the next higher number.

The following applied music courses are open only to students who have been admitted into one of the Bachelor of Music programs. These courses consist of one sixty-minute lesson per week during the semester. Students who enroll in these courses are charged the applied music fee for fifteen 60-minute lessons in the semester. Academic credit in these courses, however, is awarded at four hours per course and reflects the increase in practice and performance outside the scheduled lesson time required of students enrolled at this level of music training.

265-365-465. Voice (4 hours)
Prerequisite: Admission to one of the Bachelor of Music programs.
Credit: 60 minute lesson per week, 4 hours credit per semester. In addition to their private lessons, students may be required to attend a one-hour class session each week. Students must earn 8 hours in each number before moving to the next higher number.

266-366-466. Piano (4 hours)
Prerequisite: Admission to one of the Bachelor of Music programs.
Credit: Same as MUS 265. Students must earn 8 hours in each number before moving to the next higher number.

267-367-467. Organ (4 hours)
Prerequisite: Admission to one of the Bachelor of Music programs.
Credit: Same as MUS 265. Students must earn 8 hours in each number before moving to the next higher number.

268-368-468. Orchestra and Band Instruments (4 hours)
Prerequisite: Admission to one of the Bachelor of Music programs.
Credit: Same as MUS 265. Students must earn 8 hours in each number before moving to the next higher number.
271-371-471. Harpsichord  (4 hours)
Prerequisite: Admission to one of the Bachelor of Music programs.
Credit: Same as MUS 265. Students must earn 8 hours in each number before moving to the next higher number.

Performing Ensembles

180. Chamber Music Ensemble  (1 hour)
Prerequisite: Permission of the instructor
Chamber Music is course designed to explore and perform the rich literature for various instrument combinations from the Renaissance to the present. The primary focus is to explore such traditional ensemble repertoire as piano trios, string trios, piano quartets, etc. Open to all students. An audition/interview is required.

181. Guitar Ensemble  (1 hour)
Prerequisite: Permission of the instructor.
Guitar ensemble is a course designed to explore and perform literature from the Renaissance to the present. The primary focus is to explore the musical literature for an ensemble of guitars. Open to all students. An audition/interview is required.

182. Mercer Singers  (1 hour)
Prerequisite: Permission of instructor.
This mixed ensemble is highly selective and consists of approximately thirty to forty students. This choir performs a cappella and other standard repertoire appropriate for a touring group. Open to all students. An audition is required.

183. Chamber Singers  (1 hour)
Prerequisite: Permission of instructor.
This vocal chamber ensemble performs a wide variety of choral music: madrigals, motets, and music theatre selections. In addition, the group participates in departmental and off-campus performances, as well as appearances in the weekly on-campus chapel services. Open to all students. An audition is required.

185. Jazz Ensemble  (1 hour)
Prerequisite: Permission of instructor.
The Jazz Ensemble is an eighteen-member group in which students are instructed in the performance of jazz in such styles as swing, bebop, funk, rock, shuffle, and ballad. Open to all students. An audition/interview is required.

186. Brass Ensemble  (1 hour)
Prerequisite: Permission of instructor.
Brass Ensemble is a course designed to explore and perform brass music from the Renaissance through the twentieth century. The primary focus is to explore a large body of brass music literature in the various instrumentations for which literature exists (brass choir, brass quintet, tuba quartet, horn quartet, and trombone choir). Open to all students. An audition/interview is required.

187. Woodwind Ensemble  (1 hour)
Prerequisite: Permission of instructor.
Woodwind Ensemble is a course designed to explore and perform woodwind music from the Renaissance through the twentieth century. The primary focus is to explore a large body of woodwind music literature in the various instrumentations for which literature exists (clarinet ensemble, flute choir, woodwind quintet, and saxophone quartet). Open to all students. An audition/interview is required.
188. Percussion Ensemble (1 hour)
Prerequisite: Permission of instructor.
Percussion Ensemble is a course designed to explore and perform percussion music from the Renaissance through the twentieth century. The primary focus is to explore a large body of percussion music literature in the various instrumentations for which literature exists. Open to all students. An audition/interview is required.

189. Jazz Combo (1 hour)
Prerequisite: Permission of instructor.
Jazz Combo is a course designed to explore and perform jazz music of all styles from 1920 to the present. The ensemble is confined to standard instrumentation: trumpet, trombone, saxophone, trap set, bass guitar, and piano. The number of jazz combos in a given quarter will not be limited. The primary focus will be to explore a large body of jazz combo music literature. Open to all students. An audition/interview is required.

190. Mercer University Choir (1 hour)
Prerequisite: Permission of instructor.
This ensemble brings together the Mercer community by uniting the voices of various members of the Mercer campus. This large choral organization will perform literature of various levels and styles with instrumental accompaniment as well as a cappella repertoire. No audition is required.

191. Wind Ensemble (1 hour)
Prerequisite: Permission of instructor.
This organization of wind and percussion musicians is the select instrumental performance ensemble at Mercer. Due to its flexible instrumentation, the class performs a wide range of repertoire from the Renaissance to and including the twentieth century. In addition, guest soloists, conductors, and composers of international acclaim regularly appear in concert with this ensemble. Open to all students. An audition/interview is required.

192. String Chamber Orchestra: Mercer/Macon Symphony Youth Orchestra (1 hour)
Prerequisite: Permission of the instructor.
This ensemble introduces the string player to a wide range of string ensemble repertoire. The culmination of the semester's rehearsals is a public performance. Open to all students. An audition/interview is required.

Credit Limitation: All credit hours earned in MUS 180 through MUS 192 will appear on the student's transcript but no more than eight such credits will count toward the hours required to graduate.

PHILOSOPHY (PHI)
Charlotte S. Thomas, Chair/Associate Professor
Peter C. Brown, Professor
Matthew J. Oberrieder, Creighton Rosental, and Edward F. Thomas, Assistant Professors

Philosophy is committed to the Socratic motto that “the unexamined life is not worth living.” As such, its ultimate purpose is disciplined reflection on life’s “big” questions, universal questions about the meaning of Being that have occupied
human beings since the dawn of history. These questions, simply put, are “Who are we?” and “Where are we?” Or, what is the ultimate nature of the universe we live in and what does it mean to be human in it? These animating questions immediately generate the more detailed questions of metaphysics (what is ultimately real? Why should there be anything at all?), which includes philosophy of religion (is there a mind at the foundation of things and is it accessible to us?), and the questions of ethics (what belongs to living a good life and what values are worthy of our allegiance?) and aesthetics (what is the nature of beauty and the basis of artistic discrimination?). Answers to these questions are interconnected, and many answers are possible. And different answers have different implications for moral philosophy (how should we conduct ourselves in relation to other persons?) and social and political philosophy (how should we organize our lives together?). Moreover, the persistent pursuit of these questions reveals a constellation of other questions. For example, how are answers to such questions justified? This, in turn, leads to reflection on the scope, methods, and limits of human knowledge, which form the subject-matter of epistemology, and philosophy of science (what, if anything, can we know, and how can we know it?), which also raise questions about the nature of thought and language that make up the disciplines of logic, semantics, and linguistic analysis. Philosophy, accordingly, may be thought of as the exploration of this web of questions.

A major may be earned by taking 27 semester hours in philosophy, at least 21 of which must be upper division and include three courses selected from 321, 322, 323, 324, and either 333 or 355.

Philosophy majors must complete a comprehensive examination consisting of four essay questions on broad philosophical topics. These questions will require significant reference to philosophers and philosophic positions central to the western philosophical tradition. Students will be eligible to take this examination after completing 75 hours of course credit and at least two History of Philosophy courses (321, 322, 323, 324). The philosophy comprehensive examination will be administered once each semester. Students who fail one question will be given an opportunity to re-take a partial examination during the same semester. Students who fail more than one question will be required to re-take the entire examination during a subsequent semester. A bank of questions from which the exam questions will be drawn will be made available to students at the beginning of each semester. Grades for this examination will be Partial Fail (PF), Fail (F), Pass (P), and Distinguished Pass (DP).

A minor may be earned by taking 15 semester hours in Philosophy, including two courses selected from 321, 322, 323, and 324.

Majors may attain Departmental Honors in philosophy by meeting the following requirements: (1) maintain an overall 3.5 grade point average in philosophy; (2) complete satisfactorily one of the following courses: 360, 361, or 390; (3) present an honors thesis based on a closely supervised research project to be approved by all members of the Department.

The following courses have no prerequisites: 190, 254, 255, 300, 305, 321, 333, 337 and 351 may be used to satisfy the general education requirements. Prerequisites for all other courses are as listed.

**190. Introduction to Philosophy** (3 hours)
An introduction to reading, writing, and thinking about philosophy. The western tradition of philosophical thought will define the subject matter of the course.
Emphasis will be placed on the cultivation of a philosophical attitude and the development of the art of conceptual analysis and synthesis. Not open to seniors.

254. Introduction to Ethics (3 hours)
A study of the principal ethical traditions of Western culture and their application to contemporary moral issues and social problems.

255. Logic and Language (3 hours)
A study of the principles used in distinguishing correct from incorrect reasoning. Special emphasis will be placed upon the application of these principles to everyday language and reasoning. Topics to be studied include: informal fallacies, definitions, categorical propositions and syllogisms, elementary truth functional logic, truth and validity, and induction.

300. The Quest For Meaning (3 hours)
Questions of the meaning and purpose of human life are a dominant theme in our reflections on ourselves and our world. What are the sources of meaning in human life? What ideals and possibilities for human life have people in the past envisioned? How does the present age shape or meet our needs for meaning and purpose? The course is designed to explore these questions through readings in philosophy, theology, literature, and the social sciences.

304. Advanced Ethical Theory (3 hours)
Prerequisite: One course in philosophy.
An examination of major ethical theories with emphasis on the nature of good, the nature of moral obligations, the nature of freedom, and the justification of ethical principles in general.

305. Contemporary Social Philosophies (3 hours)
An examination of some principal modern philosophies of social change, both revolutionary and non-revolutionary, with special reference to their implications for the American social crisis.

321. History of Philosophy I: Ancient Philosophy (3 hours)
A survey of ancient philosophy with special emphasis on the Pre-Socratics, Plato, Aristotle, the Stoics and Epicureans, and Neo-Platonism.

322. History of Philosophy II: Medieval Philosophy and the Rise of Humanism (3 hours)
Prerequisite: PHI 321.
A survey of medieval philosophy and the rise of humanistic studies in the Renaissance, with emphasis on Augustine, Aquinas, Scotus, Occam, Erasmus, Bacon, Machiavelli, and Montaigne.

323. History of Philosophy III: Continental Rationalism and British Empiricism (3 hours)
Prerequisite: One course in philosophy.
A survey of the modern rationalist tradition and its rival empirical tradition, with emphasis on Descartes, Spinoza, and Leibnitz and on Hobbies, Locke, Berkeley, and Hume.

324. History of Philosophy IV: Kant and the Nineteenth Century (3 hours)
Prerequisite: PHI 323.
A survey of the nineteenth century, with emphasis on Kant, Hegel, Schopenhauer, Kierkegaard, Marx, Mill, James, and Nietzsche.
325. Existentialism and Phenomenology (3 hours)
Prerequisite: One course in philosophy.
A study of the major themes of existentialism and phenomenology with some attention to their historical roots in the nineteenth century.

331. Philosophy of Religion (3 hours)
(Same as CHR 331)
Prerequisite: One course in philosophy.
A study of some of the major problems that arise in the encounter between philosophy and religious belief.

333. Philosophy of Science (3 hours)
A study of the nature and logic of the sciences and an analysis of the relation of science to other human concerns: emphasis will be placed on the nature of scientific evidence, explanation, and theory, the nature and history of scientific discovery; the place of science in understanding humans, values, and society. Recommended for junior and senior science majors.

337. Philosophy and Literature (3 hours)
An examination of the relationship between philosophy and literature, including reading classic and contemporary literary texts as philosophy, and reading representative philosophical texts as literature. Commonalities and distinctions between these two modes of discourse, as well as their historical influence on one another, will be considered.

344. Environmental Ethics (3 hours)
(Same as ENV 344)
Prerequisite: Either one course in philosophy or ENV 100.
An examination of ethical issues and theories as they apply to environmental concerns, together with a survey of emerging environmental philosophies.

351. Black Philosophical Perspectives (3 hours)
(Same as AFR 351)
An examination of the ideas and influence of black thinkers and leaders throughout the world. Writings of such figures as Fanon, Carmichael, Garvey, Nkrumah, King, Booker T. Washington, Dubois, Malcolm X, and Douglass will be compared and contrasted.

355. Symbolic Logic (3 hours)
Prerequisite: One course in philosophy or nine semester hours in mathematics or computer science.
A study of formal logic with special emphasis on symbolic logic as a tool for the analysis of valid inference. Subject matter includes the analysis of truth functions, quantification theory, and the theory of relations.

360. A Great Ancient or Medieval Philosopher (3 hours)
Prerequisite: PHI 321.
An intensive study of the works of an ancient or medieval philosopher of major importance in the Western tradition. The course is designed to acquaint the student with the principles of philosophical research, as well as to provide an extensive knowledge of the philosophy selected. One of the following will be selected for study: Plato, Aristotle, Augustine, Aquinas. The philosopher selected will appear in the annual schedule of courses and be recorded on the student’s transcript. The course may be taken twice with the consent of the instructor, for a maximum of 6 semester hours credit.
361. A Great Modern Philosopher (3 hours)
Prerequisite: One course in philosophy.
An intensive study of the works of a modern philosopher of recognized stature. Typical thinkers include but are not limited to: Descartes, Spinoza, Leibnitz, Locke, Berkeley, Hume, Kant, Hegel, Marx, Kiekegaard, Nietzsche, James, Dewey, Whitehead, Wittgenstein, Heidegger. The philosopher selected will appear in the annual schedule of courses and be recorded on the student's transcript. This course may be taken twice with the consent of the instructor, for a maximum of 6 semester hours credit.

380. Human Nature and Art (3 hours)
Prerequisite: One course in PHI or permission of instructor.
This summer course is a study of the changing notions of the human condition in the western tradition as discerned in great works of visual art and architecture studied in situ. At least one week is spent on the Macon campus, orienting students to the aims and requirements of the course; at least two weeks of study abroad, examining appropriate art objects and artifacts, follow.

390. Special Topics in Philosophy (3 hours)
Prerequisite: One course in philosophy, junior or senior status, and consent of the instructor.
An intensive study of some significant topic in philosophy, not otherwise covered in departmental course offerings.

395. Directed Independent Research (3 hours)
Prerequisite: One course in philosophy, junior or senior status, and consent of the instructor.
This course is intended to provide the student with the opportunities to do guided reading in a field of interest. At least one substantial paper is required, and the student must have the project approved by the end of the third week of the semester. The course is available each semester.

PHYSICS (PHY)
Randall D. Peters, Chair/Professor
Bruce D. Dod, Professor
Matthew Marone, Associate Professor
Jose Balduz and Douglas Young, Assistant Professors

The department offers the B.S. and B.A. degrees and a minor in physics. It also offers courses in earth sciences but no major or minor in that program.

The program in physics offers courses to meet the needs of (1) students desiring to pursue physics-related industrial or governmental careers, (2) students desiring to continue their education in advanced graduate programs, (3) students desiring a physics major as preparation for science teaching in secondary schools, (4) students needing courses in physics as part of their major program, and (5) students not majoring in the sciences, but desiring a general knowledge of physics.

The Bachelor of Science degree in physics consists of at least 39 credit hours of physics, which must include PHY 161/121L/162/162L, 305/306, 300 (twice), 340, 355, 365, 430, and at least three other physics courses numbered above 300. In addition, MAT 293 (Multivariable Calculus) and MAT 330 (Introduction to
Differential Equations), and CHM 111/112 (General Chemistry I/II) are required. Successful completion of a senior comprehensive examination is also required.

The Bachelor of Arts degree in physics consists of at least 29 credit hours in physics, which must include PHY 161/121L/162/162L, 305/306, 300 (twice), and at least four other courses which are either physics offerings numbered above 300, or ESC 115 (Descriptive Astronomy). In addition, MAT 293 (Multivariable Calculus) and MAT 330 (Introduction to Differential Equations), and at least 8 credit hours of lab science courses outside of physics (i.e., BIO, CHM, ENV, or ESC) are required. Successful completion of a senior comprehensive examination is also required.

A minor in physics consists of at least 17 credit hours in physics, which must include PHY 161/121L, 162/162L, and at least three physics courses numbered above 300.

The courses MAT 191 and 192 (Calculus I/II) are required for all physics degrees. The courses PHY 141/142/142L may never be used to fulfill any physics degree requirement. Students wishing to pursue a major or minor in physics should confer with the department chair as soon as this decision is made in order to plan a program of studies. A physics major should ideally complete PHY 161/121L/162/162L and MAT 191/192 during the freshman year, and PHY 305/306 and MAT 293/330 during the sophomore year.

The earth sciences courses meet the needs of (1) students who desire to fulfill general education lab science requirements for graduation, or to gain a general knowledge of the earth sciences, who may select from ESC 105, 110, or 115; (2) students in the Environmental Science program, who may select ESC/ENV 210 or 220; (3) advanced students in physics, chemistry, engineering, or military science, who may select ESC 300; and (4) students who want to pursue careers as science teachers, who may select any of the above courses.

Majors may attain Departmental Honors in physics by fulfilling the following requirements (1) attaining a grade point average of at least 3.5 in all courses taken in the department, and (2) satisfactorily completing a research project, including preparation of a paper suitable for publication in a scientific journal and/or presentation at a scientific meeting.

101. Everyday Physics
(2 hours)
Prerequisite: SCI 105 or consent of instructor.
Commonplace objects and events are studied from a scientific point of view. These may include sports, amusement rides and other vehicles, household objects, ice and steam, musical instruments, electronic devices, light, weather, toys, and weapons. A lecture and laboratory module for general education. Three hours of lecture and a three-hour lab per week for eight weeks.

103. Acoustical Foundations of Music
(2 hours)
(Same as MUS 103)
Prerequisite: SCI 105 or consent of instructor.
A study of the relevant concepts of physics as applied to the acoustical aspects of music reproduction, listening environments, and hearing. A lecture and laboratory module for general education. Three hours of lecture and a three-hour lab per week for eight weeks.

121L. Basic Physics Laboratory I
(1 hour)
Corequisite: PHY 141 or PHY 161.
Laboratory component for PHY 141 or PHY 161; one three-hour session per week.
141. Introductory Physics I: Mechanics and Heat (3 hours)
Prerequisite: MAT 133 or equivalent.
Corequisite: PHY 121L.
Algebra-based physics: the study of motion, forces, mechanical and heat energy.

142. Introductory Physics II: Electricity, Magnetism, and Optics (3 hours)
Prerequisites: MAT 133 or equivalent, and PHY 141.
Corequisite: PHY 142L.
Continuation of PHY 141: the study of electrostatics, electric currents, dc and ac circuits, magnetism, geometrical and physical optics.

142L. Introductory Physics II Lab (1 hour)
Corequisite: PHY 142.
Laboratory component for PHY 142: one 3-hour session per week.

161. General Physics I: Mechanics and Thermodynamics (3 hours)
Corequisites: MAT 191 and PHY 121L.
Physics with calculus for majors in the physical sciences and engineering: the study of motion, forces, energy, heat and entropy.

162. General Physics II: Electricity and Magnetism, Wave Motion and Optics (3 hours)
Prerequisite: PHY 161.
Corequisites: MAT 192 and PHY 162L.
Continuation of PHY 161: the study of electrostatics, electrical currents, dc and ac circuits, and magnetism, wave phenomena, geometric and physical optics.

162L. General Physics II Lab (1 hour)
Corequisite: PHY 162.
Laboratory component for PHY 162 one 3-hour session per week.

300. Physics Seminar (1 hour)
Prerequisite: Junior or senior status; and either PHY 142 or PHY 162 or instructor approval.
This is a weekly, one-hour seminar focusing on current topics at the frontiers of physics. Each student must make at least one presentation each semester. May be taken up to four times for credit, but only two credit hours may be applied toward the physics major.

305. Modern Physics I (3 hours)
Prerequisites: MAT 192 and PHY 162.
Introduction to the quantum theory of matter: wave-particle duality, uncertainty, quantum probability, the Schrödinger equation, atomic and molecular structure, classical and quantum statistics, solid state physics, lasers, and superconductors.

306. Modern Physics II (3 hours)
Prerequisite: PHY 305.
Introduction to the physics of spacetime, the very small, and the very large: special relativity, nuclear and particle physics, astrophysics, general relativity, and cosmology.

325. Physical Optics (4 hours)
Prerequisites: MAT 192 and PHY 162.
Intermediate level optics, including the electromagnetic nature of light, thermal
and coherent sources, interference phenomena, holography, polarization, Fourier transform spectroscopy, and nonlinear optics. The adjective physical in the title of this course emphasizes its foundation in electromagnetic theory, as opposed to geometrical optics, where the primary goal is to understand how optical instruments function, using ray tracing techniques. Three hours of lecture and a 3-hour laboratory per week.

330. Statistical Mechanics (3 hours)
Prerequisites: MAT 293, MAT 330 and PHY 305.
Introduction to statistical mechanics covering classical and quantum statistics, and connections with thermodynamics. Quantum statistics will include investigations of thermal properties of solids and low temperature phenomena.

340. Analytical Mechanics (3 hours)
Prerequisites: MAT 293, MAT 330 and PHY 162.
Statics and dynamics of particles and rigid bodies; Newtonian, Lagrangian, and Hamiltonian description of systems; vibrating systems including normal modes.

355. Electromagnetic Theory (3 hours)
Prerequisites: MAT 293, MAT 330 and PHY 162.
Electrostatics, magnetostatics, electrodynamics, Maxwell’s equations, electromagnetic waves.

365. Mathematical Physics (3 hours)
Prerequisites: MAT 293, MAT 330 and PHY 162.
Mathematical methods useful in upper-division physics courses are explored. Topics may include probability distributions, linear algebra, complex variables, waves and Fourier analysis, orthogonal functions, partial differential equations, chaotic dynamics, and group theory.

370. Experimental Physics (4 hours)
Prerequisite: PHY 305.
Introduction to experimental techniques including computerized data acquisition, data analysis, analog and digital electronics and instrumentation. Students will also learn the LabVIEW programming language. Three hours of lecture and three hours of laboratory work per week.

385. Computational Physics (4 hours)
Prerequisites: MAT 293, MAT 330 and PHY 162.
Students will use scientific programming languages to create algorithms and perform numerical calculations in the areas of linear algebra, differentiation and integration, and random event generation. Three hours of lecture and a three hour computer lab per week.

420. Selected Topics in Physics (Subtitle) (1-4 hours)
Prerequisite: To be determined by the instructor.
A study of a topic in much greater depth than is done in the more general courses, or a topic of current importance not covered in the course offerings of the department. Credit hours depend on the topic, with a maximum of 4.

430. Nonlinear Physics (4 hours)
Prerequisite: PHY 340.
This course discusses nonlinear phenomena in physical systems and how these nonlinear effects are analyzed. Three hours of lecture and a three-hour lab per week.
450. Introduction to Quantum Mechanics (3 hours)
Prerequisites: MAT 293, MAT 330 and PHY 305.
Introduction to the concepts and techniques of quantum mechanics. Mathematical formalisms, applications to various systems, and philosophical implications of quantum mechanics will be investigated.

460. Research in Physics (1-3 hours)
Prerequisite: To be determined by the student's research advisor.
Training in the techniques of basic research in physics with application to a research project of current importance. May be spread over several semesters. One credit hour for each three hours per week of research activity. May be taken for up to 6 credit hours.

EARTH SCIENCES (ESC)

105. Geology (4 hours)
An introductory course in geology, including a study of the structure and material of the earth's crust: the processes that have given the rocks and minerals their composition, structure, and distribution; the internal structure of the earth; the energy and forces responsible for earthquakes, volcanoes, and mountain-building; the forces that have otherwise shaped the landscape; and a brief history of life on earth as revealed in the fossil record. A lecture and laboratory course.

110. Meteorology (4 hours)
An introductory, basically qualitative approach to the science of weather and climate. Includes the study of cloud types and their causes; air masses, their origin and movement; fronts, frontogenesis, and frontal weather; tornadoes, hurricanes, and other phenomena. A lecture and laboratory course.

115. Descriptive Astronomy (4 hours)
Problems in astronomy will be presented on a fundamental level and will serve to demonstrate how scientific principles are established, how these principles are sometimes revised or disproved by new data and methods, and how observations of the universe can be used by people to learn more about their place in the cosmos. A lecture and laboratory course.

210. Environmental Geology (4 hours)
(Same as ENV 210)
Prerequisite: ESC 105 or consent of the instructor.
This course focuses on the influence that geologic forces have on the existence and development of physical and biological communities. Topics include geologic hazards, preservation of natural geologic habitats, and pertinent political, economical, and social considerations. The course is designed particularly for students pursuing majors or minors in engineering, environmental sciences or other disciplines requiring specific knowledge of the above described interrelationships. A lecture and laboratory course.

220. Oceanography (4 hours)
(Same as ENV 220)
Prerequisites: CHM 112, and PHY 141 or 161.
The basic principles and concepts needed to give an understanding of the general makeup of the world’s oceans and how they are investigated by oceanographers. Physical, chemical, biological, and environmental aspects of oceanography will be presented. A lecture and laboratory course.
300. Special Topics in Earth Sciences (Subtitle) (1-4 hours)
Prerequisite: To be determined by the instructor.
A study of a topic in much greater depth than is done in the more general courses, and in some cases a study of a topic of current importance not usually covered in the course offerings of the department. Credit hours to be determined by the nature of the topic, with a maximum of 4 hours for a given subtitle. May be taken for a maximum of 8 credit hours.

POLITICAL SCIENCE (POL)
INCLUDING INTERNATIONAL AFFAIRS (IAF)

Eimad Houry, Chair/Associate Professor
Gregory P. Domin, Associate Professor
Will Jordan and Jessica Perez-Monforti, Assistant Professors

The Department of Political Science offers a wide range of courses in American government and politics, comparative government and politics, international politics, and political theory. The curriculum of the Political Science Department is designed to provide (1) an academic training in the theoretical, empirical, and philosophical aspects of the discipline; (2) an environment in which students can develop basic skills in analysis, critical thinking, writing and research; (3) the background and competence necessary to pursue graduate studies; and (4) a broad liberal education in politics, law, and government for all students.

A Political Science major consists of a total of 30 semester hours, including POL 101, POL 200, POL/IAF 253, and POL 495. The six remaining courses are to be selected from among courses numbered up to 380, and distributed across the three fields of American Government, International and Comparative Studies, and Law and Political Theory, as follows: four courses in one field and one course selected from each of the remaining two fields. At least eighteen hours (six courses) must come from courses numbered between 300 and 380.

Majors are strongly advised to schedule the required courses at the earliest possible time, and before taking any 300 level courses in the different fields. Students in Political Science are also encouraged to consider taking a number of related and complementary courses offered in other programs such as ECN 150, ECN 151, CSC 125, foreign languages, and any of the research methodology or statistics courses offered by the departments of Sociology or Psychology. Internships are encouraged, so that students can experience the practical, as well as the more theoretical, aspects of the field. In addition, majors should look into the study-abroad programs arranged through the College with reputable academic institutions worldwide.

A minor in political science requires a total of 18 hours, including POL 101, POL 200, POL/IAF 253, and three courses between 300 and 380, one from each of the fields of American Government, International and Comparative Studies, and Law and Political Theory.

Majors may attain Departmental Honors in political science by meeting the following requirements: (1) achieve an over-all grade point average of 3.5, and (2) achieve a grade point average of 3.75 in the Political Science major.
COMPOSITION OF FIELDS IN THE MAJOR

FIELD I, STUDIES IN AMERICAN POLITICS
POL 305. State and Local Government
POL 330. Race and Politics
POL 332. Women and U.S. Politics
POL 351. American Foreign Policy
POL 335. Congress and the Legislative Process
POL 336. Campaigns and Elections
POL 339. The Presidency
POL 352. U.S. National Security Policy
POL 380. Seminar on Political Topics

FIELD II, STUDIES IN ETHICS, LAW, AND POLITICAL THEORY
POL 345. Environmental Justice
POL 348. Constitutional Law: Federalism and Separation of Power
POL 349. Constitutional Law: Civil Rights and Liberties
POL 350. Judicial Politics
POL 354. Principles of International Law
POL 371. Democratic Theory
POL 372. Problems in Political Theory
POL 373. American Political Thought
POL 380. Seminar on Political Topics

FIELD III, INTERNATIONAL AND COMPARATIVE STUDIES
POL 310. Western European Governments
POL 312. Developing Political Systems
POL 313. The Politics of the Middle East
POL 314. Women in Developing Countries
POL 355. International Conflict and Security
POL 356. International Political Economy
POL 380. Seminar on Political Topics

101. Introduction to American Government (3 hours)
A study of the structure, organization, power, and procedure of the government of the United States.

200. Introduction to Political Theory (3 hours)
This course is designed for political science majors and non-majors alike. The course introduces students to major thinkers and themes that have shaped our thinking about politics. As a broad survey of the history of political thought, the course considers both ancient and modern authors.
253. Introduction to International Relations (3 hours)
(Same as IAF 253)
This course is designed for political science majors and non-majors alike. The course surveys the diplomatic, military, economic, legal, and organizational theories and variables that shape our understanding of relations between countries. Special emphasis is placed on contemporary world problems such as the environment, human rights, conflict, population, and poverty.

305. State and Local Government (3 hours)
Intergovernmental relations in the federal system, and the organization, functions, and politics of state and local governments.

310. Western European Political Systems (3 hours)
An analysis of Western European political systems in terms of their institutions, political processes, and behavior. Emphasis on comparative analysis with examples drawn from the full range of European parliamentary democracies.

312. Politics of Developing Nations (3 hours)
This course treats the major problems of development in Latin America, Africa, and the Middle East. Special emphasis is placed on the interaction of domestic political, social, and economic variables in determining the pace and character of the development process.

313. Middle East Politics (3 hours)
This course is designed to introduce the student to the history and political trends of the region. The forces of change such as nationalism, Islamic revivalism, the Arab-Israeli peace process, and regional conflicts are given special attention.

314. Women in Developing Countries (3 hours)
(Same as WGS 314)
Prerequisites: POL 253/IAF 253, Introduction to International Affairs.
This course offers an opportunity to learn about the status of women in developing countries, in general, and the role of women in development, in particular. The course examines the substance and direction of interactions among women, their political structures, and economic systems throughout the developing world. Multiple perspectives and models are explored, including, but not limited to, dependency theory, modernization theory, globalization, feminist sociology, and post modernism.

330. Race and Politics (3 hours)
(Same as AFR 330)
This course explores the unique political experiences of racial minorities with particular emphasis on both traditional (e.g., voting, office holding, and lobbying) and non-traditional (e.g., riots/protests, music, mass movements) efforts to gain political stamina. The course will focus on the quality of minority political leadership, ideology, participation, representation, and strategies for empowerment.

332. Women and U.S. Politics (3 hours)
(Same as WGS 332)
Prerequisite: POL 101.
This course explores multidimensional aspects of gender and political life in America. Readings and class discussions will concentrate on the following themes: (1) how gender influences political behavior and public policy; (2) how women have challenged the political status quo; (3) the intersection of gender, race, class, and sexuality in the transformation of U.S. politics.
335. Congress and the Legislative Process (3 hours)
Prerequisite: POL 101 or consent of instructor.
An examination of the United States Congress, with emphasis on recruitment and composition, styles of representation leadership, the role of interest groups, and the executive in the legislative process, organization, and functions.

336. Campaigns and Elections (3 hours)
Prerequisite: POL 101 or consent of instructor.
A study of American electoral politics, with primary emphasis on the development, organization, and contemporary role of political parties in the United States.

339. The American Presidency (3 hours)
Prerequisite: POL 101 or consent of instructor.
The historical development and constitutional base of the U.S. Presidency, its contemporary roles and responsibilities, and its relationships with other political institutions.

345. Environmental Justice (3 hours)
(Same as AFR/ENV/SOC 345)
This course examines the impact of institutional racism on environmental and health policies, industrial practices, government regulations and rule making, enforcement, and overall quality of life in people-of-color communities. The course will examine the nexus between environmental protection and civil rights, and the impact of the environmental justice national environmental groups.

348. Constitutional Law: Federalism and Separation of Power (3 hours)
Prerequisite: POL 101 or consent of instructor.
An examination of the historical development of American constitutional law and of national governmental powers.

349. Constitutional Law: Civil Rights and Liberties (3 hours)
Prerequisite: POL 101 or consent of instructor.
An examination of the individual's constitutional rights.

350. Judicial Politics (3 hours)
An examination of contemporary political issues and the constitutional law cases establishing the legal boundaries within which these issues are given legitimacy, or by which certain practices are considered to be inconsistent with established law. The issues to be explored may include, but are not limited to, religion, speech, privacy, assembly and civil rights.

351. American Foreign Policy (3 hours)
Prerequisite: POL 101 or consent of instructor.
The institutions and procedures involved in the formulation and implementation of American foreign policy, with some consideration of the important elements and strategies of American foreign policy from World War II to the present.

352. U.S. National Security Policy (3 hours)
Prerequisite: POL 101 or consent of the instructor.
This course is an introduction to U.S. national security structures and issues, examining U.S. security policy in light of U.S. national interests; nuclear strategy; the connections between arms control and military planning; structures and functions of U.S. national security decision-making bodies; and national security problems and attempts at their solution.
354. Principles of International Law (3 hours)
Prerequisite: POL 253 or consent of instructor.
This course considers the nature, sources, and evolution of public international law; its relation to domestic law; subjects and jurisdiction of international law; peaceful settlement of disputes; international agreements; state responsibility in treatment of aliens; the use of force; and the role of international organizations and courts.

355. International Conflict and Security (3 hours)
Prerequisite: POL 253 or consent of instructor.
This course examines interactions between less-developed countries and the international system by reference to the notion of national security. Topics discussed include: colonial legacy, the international financial and trade systems, global economic inequalities, food and health security, conflict and its resolution, and nuclear proliferation.

356. International Political Economy (3 hours)
Prerequisite: POL 253 or consent of instructor.
An examination of the political determinants and consequences of economic relations between the nations of the world. Topics explored include international trade, international finance, international financial organizations, regional economic organizations, and economic treaties and conventions.

371. Problems in Political Theory (3 hours)
This course examines the view that democracy is the only legitimate type of regime by studying the theoretical underpinnings of democracy as well as some of the critiques of those foundations. Readings will include both advocates and critics of democratic forms.

372. Problems in Political Theory (3 hours)
(Same as PHI 372)
Prerequisite: POL 200 or consent of the instructor.
This course examines some of the perennial questions in political theory. Topics under discussion may include freedom, tyranny, equality, justice, ethics, and citizenship.

373. American Political Thought (3 hours)
Prerequisite: POL 200 or consent of the instructor.
This course introduces students to major American political thinkers such as Jefferson, Paine, Madison, Lincoln, Strauss, and Rawls. In addition, the course will treat European influences upon American political thought, including, but not limited to, Hobbes and Locke.

380. Seminar on Political Topics (3 hours)
Prerequisite: Consent of instructor.
A seminar involving intensive study of a major political or legal topic. May be repeated with different topics.

490. Internship Program (3-15 hours)
Prerequisite: Consent of Departmental Chair.
An internship program offering to majors a practical field work experience in one of the following phases of government: local, state, national, or international. The instructor in the governmental field selected must approve and supervise the student's project. The student is responsible for all arrangements. Graded on S/U basis only.
493. Supervised Independent Reading (1-3 hours)
Prerequisite: Consent of Departmental Chair.
An intensive reading program concerning a major issue in political science under the supervision of the instructor selected. Graded on S/U basis only.

495. Senior Seminar in Political Science (1-3 hours)
Prerequisite: Senior status.
The capstone experience in the political science discipline, providing an overview of its current intellectual state. The seminar will focus on the tensions between theory and practice, the science and art of politics. The contributions of natural and social science theories, methods, and results are highlighted for their relevance to the study of political science.

496. Directed Independent Research (1-3 hours)
Prerequisite: Consent of Departmental Chair.
An intensive research project concerning a major issue in Political Science under the direction of the instructor selected.

INTERNATIONAL AFFAIRS (IAF)

For a description of the concentration in International Affairs, see the section on Concentrations in this Bulletin.

253. Introduction to International Relations (3 hours)
(Same as POL 253)
The course surveys the diplomatic, military, economic, legal, and organizational theories and variables that shape our understanding of relations between countries. Special emphasis is placed on contemporary world problems such as the environment, human rights, conflict, population, and poverty.

400. Senior Project in International Affairs (3 hours)
Prerequisites: POL/IAF 253 and senior status, or consent of director.
Supervised independent study, with an emphasis on the correlation of different approaches to international affairs.

PROGRAM IN LEADERSHIP AND COMMUNITY SERVICE (PLS)
Thomas James Glennon, Chair/Professor

The Program in Leadership and Community Service is a trans-disciplinary program that enhances traditional liberal learning through supervised and extensive periods of public and community service. Students and faculty work here and abroad with community organizations on projects designed to enhance the common good, or with individuals and families to help them solve particular problems. In so doing, each participant becomes part of a service-learning community designed to strengthen human communities, meet individual needs, promote intercultural literacy, and enhance the development of participants as leaders, citizens, and neighbors. The program recognizes that an understanding of oneself and one’s world can be enhanced when active involvement in one’s community is combined with critical reflection, and that service to one’s community is both a moral responsibility and an opportunity for leadership development.

The Program in Leadership and Community Service (PLS) offers students, regardless of major or academic interest, an opportunity to participate in leader-
ship and service experiences. The goals of the program are: (1) to deepen the students’ understanding of and commitment to personal and cultural values, (2) to help students develop the skills and values necessary for effective servant leadership roles, (3) to promote the common good and meet individual human needs in diverse communities and cultures, and (4) to bridge the gap between traditional academic disciplines and public and community service.

The Program provides students with an opportunity to complete a concentration in PLS. Students must complete the following required core courses: PLS 200, 210, 300 and 390, and senior year practica (PLS 400 and 401). In addition, students must complete an approved elective track which consists of a minor and/or an approved five course elective sequence of courses taken from another department within the College of Liberal Arts or from another division within the University. The following elective tracks have already been approved and are listed to illustrate the types of tracks available or possible. Additional tracks may be designed with the approval of the director of the program. For example:

- Public Policy and Planning Track (POL 101, 220, 335, and 350)
- Psychology Track (PSY 101, 230, 240, 260, 460)
- Environmental Policy Track (ENV 103, 104, 150, 210 or 230, 344 and 370)
- Social Work Track (SOC 101, 210, AFR/SOC 180, 310, and 325)
- Non-Profit Management and Business Track (ECN 150 or 151, ACC 204, ACC 205, ACC 411 or MGT 363, MGT 429 or MKT 361)

Finally, the concentration requires one elementary or beginning measurement course taken from either the department of Sociology (SOC 304), Psychology (PSY 300), or Mathematics (MAT 226).

200. Introduction to Public and Community Service: (3 hours)

**Education for the Common Good**

An introduction to the concepts of leadership and service and to the ideal of “education for the common good.” A variety of literature from philosophy, religion, and the social sciences will be used to explore the questions: “What obligation does one have to one’s fellow human beings?” and “What should be the goals of one’s education?” Required service experience will be used to deepen the issues of the course existentially. Practicum Required.

210. The Literature of Social Criticism and Change (3 hours)

This course uses imaginative literature (short stories, poems, and novels) to examine the relationship between those of relative privilege or good education and those who are less fortunate. The course will also examine the ethical issues that confront those who want to and can change the world in a particular way, and those ordinary people caught in a particular social crisis. Practicum Required.

300. The Origins of our Institutional Models (3 hours)

This course uses various modes of social observation (short stories, poems, novels, and historical analysis) to describe and analyze the motivation and reasons for the creation of the school, the hospital, the asylum, and the penitentiary. Practicum Required.

320. Social Ecology (3 hours)

A systemic and cross-disciplinary analysis of selected vital human problems (overpopulation, hunger, scarcity, pollution, economic dislocation, poverty, crime,
etc.) from an ecological perspective. Students will explore various answers to the question: “What are optimum human milieus”? and “How does one achieve social and environmental harmony?” Practicum Required.

385. Special Topics in Leadership and Service (3 hours)
Prerequisite: Consent of instructor.
A study of some significant topic in the human services or in leadership which is not available through normal course offerings. Practicum Required.

390. Service Leadership: Compassion and Agency (3 hours)
Prerequisite: Consent of instructor.
An exploration of the relationship between personal and moral agency, leadership, and the religious and ethical ideal of compassion. Practicum Required.

400-401. Senior Practicum and Seminar in Service Learning (4 hours)
Prerequisite: Consent of instructor.
An intensive practicum experience in a public or individual service situation. These two courses require students to engage in projects or assignments requiring at least 10 hours of service per week, and are taken in sequence. Students will be required to attend three training events per semester and weekly seminars relevant to communication and conflict management, team building and leadership, strategic planning, public and consumer safety, program evaluation, grant writing, diversity awareness, service management, and PATH analysis.

PSYCHOLOGY (PSY)
Miranda Pratt, Chair/Professor
James E. Radiker and John C. Wright, Professors
Keegan D. Greenier, Associate Professor
Ami L. Barile, Tanya Sharon and Max Weisbuch, Assistant Professors
Administrative Staff with Faculty Appointments:
Marilyn P. Mindingall, Associate Professor
J. Barry Jenkins, Assistant Professor

The curriculum in the Psychology Department is designed to: (1) give the student a background in the philosophical, theoretical and empirical aspects of the field; (2) develop the student’s basic skills in critical thinking, reading, writing, speaking, computer use, and research; (3) emphasize the role of liberal education in enhancing personal and professional development; and (4) assure that students have the background experiences necessary to pursue graduate education.

The B.A. major in psychology consists of at least eight courses (28 hours), with additional courses required for the B.S. degree (34 hours). All majors must take the following core courses: PSY 101, 302, and 303. All majors must complete one course from each of the following two groups: Group 1: PSY 210, 215, 225; Group 2: PSY 230, 235, 240, 245, 260, 270. At least one of these courses must be completed prior to enrolling in PSY 302, and the second completed prior to enrolling in any courses beyond PSY 303. Upon completing PSY 303, all majors must complete one of the following laboratory electives: PSY 305, 310, 325, 326, 385.

For a B.A. in Psychology, majors must complete an additional research requirement of either (a) an empirical project (PSY 490a and PSY 490b or PSY 496a and 496b) or (b) an additional laboratory elective from among PSY 305,
310, 325, 326, 385. B.A. majors must also complete one of the following seminar courses: PSY 401, 410, 420, 430, 485.

For a B.S. in Psychology, majors must complete: (a) an empirical project (PSY 490a and PSY 490b or PSY 496a and PSY 496b); (b) PSY 401; (c) at least 6 additional hours in Psychology of which at least 3 must be 300-level or above (and no more than 3 credit hours in PSY 390 or PSY 495); (d) MAT 133, MAT 141, or MAT 191; (e) CHM 111 and 112 (or only CHM 115), and BIO 210. The following laboratory sequences are highly recommended: CSC 204 and 205, PHY 141/121L and 142/142L, or PHY 161/121L and 162/162L.

A minor in psychology consists of five courses: PSY 101; one course each from Group 1 and Group 2 above, and any two PSY courses numbered 300 or higher. Various special topics courses may be substituted only with prior permission of the department chair.

Majors may attain Departmental Honors in psychology by fulfilling the following requirements: (1) maintain a minimum grade point average of 3.50 in all psychology courses and a 3.0 overall grade point average; (2) file an application for attempting honors with the chair, and in order to be eligible to apply (a) have achieved a grade point average of 3.50 in all psychology courses attempted and an overall grade point average of 3.0; and (b) have completed at least three courses in psychology, which must include PSY 302; (3) complete PSY 496a and 496b, Honors Project in Psychology, in place of PSY 490a and 490b. PSY 101 is a prerequisite for all further work in the department.

101. Introduction to Psychology (3 hours)
An introduction to and survey of the major content areas of psychology. The topics include biological, cognitive, social, and environmental influences on behavior, as well as the variety of philosophical, theoretical, and empirical approaches adopted by the discipline.

210. Biopsychology (3 hours)
Prerequisite: PSY 101.
An investigation of the ways the nervous system interfaces with behavior to determine what we perceive, feel, think, say, and do. The course will provide an overview of the major divisions of biopsychology - neuropsychology, psychopharmacology, psychophysiology, and physiological psychology - with an emphasis on their relationship to behavior.

215. Cognitive Psychology (3 hours)
Prerequisite: PSY 101.
An introduction to the major theoretical approaches and empirical research related to human thought processes. Topics include perception, attention, memory, thinking, problem solving, and decision making.

225. Sensation & Perception (3 hours)
Prerequisite: PSY 101.
This course will provide the student with an understanding of how humans sense and perceive the surrounding environment. Topics will include the visual, auditory, vestibular, olfactory, and somatosensory systems.

230. Social Psychology (3 hours)
Prerequisite: PSY 101.
An examination of behavior influenced by other people. The topics include interpersonal relationships, attitude development and change, group interaction, and the impact of culture and physical environments.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>235</td>
<td>Industrial Psychology</td>
<td>3 hours</td>
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<td></td>
<td>Prerequisite: PSY 101.</td>
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<tr>
<td></td>
<td>An overview of the applications of psychological theory and research to the workplace. The topics covered include personnel selection and management, interpersonal aspects of employment, and factors that influence performance.</td>
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<td>240</td>
<td>Theories of Personality</td>
<td>3 hours</td>
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<td>Prerequisite: PSY 101.</td>
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<td></td>
<td>A critical review of the major theoretical explanations of the development, structure and organization of personal attributes. The course also considers the empirical evidence which supports these theories.</td>
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<td>245</td>
<td>Developmental Psychology</td>
<td>3 hours</td>
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<td></td>
<td>Prerequisite: PSY 101.</td>
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<td></td>
<td>An introduction to the study of the psychological development of the individual. The focus of this course is both theoretical and empirical, including coverage of growth in physical, social, cognitive, emotional, behavioral, and personality traits across the life span.</td>
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<tr>
<td>260</td>
<td>Introduction to Clinical Psychology</td>
<td>3 hours</td>
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<td></td>
<td>Prerequisite: PSY 101.</td>
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<td></td>
<td>An overview of the concepts, methods and issues involved in clinical psychology, including assessment procedures and intervention strategies.</td>
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<tr>
<td>270</td>
<td>Psychology of Gender</td>
<td>3 hours</td>
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<td></td>
<td>(Same as WGS 270)</td>
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<td>Prerequisite: PSY 101 or consent of instructor.</td>
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<td>Examination of the theory and context in which the social construct of “gender” develops, and the impact this has on our perceptions of ourselves, how others perceive us, and how we relate to others. Emphasis will be placed on the diversity of such experiences.</td>
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<tr>
<td>285</td>
<td>Special Topics</td>
<td>3 hours</td>
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<td></td>
<td>Prerequisite: PSY 101.</td>
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<td></td>
<td>A survey of a content area in psychology that is not available through other departmental course offerings. May be taken more than once, for a maximum of six credit hours.</td>
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<td>302</td>
<td>Behavioral Statistics</td>
<td>4 hours</td>
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<td></td>
<td>Prerequisites: One Group 1 PSY course or one Group 2 PSY course, and completion of the general education mathematics requirement.</td>
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<td>This course will provide the student with an understanding of basic behavioral statistics and the ability to report them in written and oral formats. Topics will include descriptive statistics, basic research design, and inferential statistics. Assignments include laboratory investigations and written reports.</td>
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<tr>
<td>303</td>
<td>Research Methods</td>
<td>4 hours</td>
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<td>Prerequisite: PSY 302.</td>
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<td></td>
<td>An introduction to the methodological skills necessary for conducting psychological research. Topics include strategies and problems of basic and advanced research design, drawing conclusions, writing research reports, and ethical issues. Assignments include laboratory investigations and written reports.</td>
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<tr>
<td>305</td>
<td>Psychology of Learning</td>
<td>4 hours</td>
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<td>Prerequisite: PSY 303.</td>
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An examination of the acquisition, maintenance and stimulus control of behavior from both empirical and theoretical perspectives. Laboratory investigations and written reports of these investigations are required.

310. Biological Bases of Behavior (4 hours)
Prerequisite: PSY 303.
An investigation of the relationship between biological and psychological processes. The biological bases of human and animal behavior will be explored and analyzed from the perspectives of psychophysiology, ethology, and behavior genetics. Laboratory investigations and written reports of experimental findings are required.

325. Tests and Measurements (4 hours)
Prerequisite: PSY 303.
Examination of the construction, evaluation, and use of psychological assessment devices. The topics include reliability, validity, measurement theory, and factors that influence the assessment process. Laboratory investigations and written reports of empirical findings are required.

326. Behavior Modification (4 hours)
Prerequisite: PSY 303.
An examination of the applications of learning principles in solving human problems. Consideration will be given to legal, social, and ethical issues related to these applications. Experiential or practical exercises applying principles learned and written reports of these findings are required.

385. Special Topics (4 hours)
Prerequisite: PSY 303.
An empirical study of some significant topic in psychology that is not available through other departmental laboratory course offerings. Laboratory investigations and written reports of empirical findings are required. May be taken more than once, for a maximum of eight credit hours.

390. Field Placement (3-15 hours)
Prerequisites: Permission of the chair and senior status.
An opportunity to obtain experience with the activities typically performed by a practicing psychologist. Students are expected to work for the agency involved no fewer than 3 hours per week for each credit hour awarded. Specific academic assignments will also be negotiated with the faculty member involved and the agency supervisor. Graded S/U.

401. History and Systems of Psychology (3 hours)
Prerequisites: Senior status, PSY 303.
An attempt to place in historical perspective the major concepts, philosophical assumptions, and theories of psychology. The course draws together content from across the curriculum and includes a critical examination of the field.

410. Social and Ethical Implications of Psychology (3 hours)
Prerequisite: PSY 303.
A study of the impact of psychological research and practice on the individual and society. The ethical, moral, and legal implications of psychology will be examined.

412. Animal Behavior (3 hours)
Prerequisite: PSY 303.
The course seeks to describe and explain the causative and developmental fac-
tors that influence animal behavior at the level of the individual and social group. Investigations into the mechanisms underlying behavior will be stressed, primarily in non-human mammals.

420. Alternative Perspectives in Psychology (3 hours)
Prerequisite: PSY 303.
A critical examination of humanistic, phenomenological, existential, and value-based perspectives in psychology.

430. Group Dynamics (3 hours)
Prerequisite: PSY 303
A subspecialization of social psychology, this seminar focuses on human thought and behavior specifically in group situations. Topics may include group formation, structure, and development; cohesiveness; influence; power; group task performance; group decision-making; leadership; crowd behavior; and intra- and inter-group conflict.

460. Psychopathology (3 hours)
Prerequisite: PSY 240 or 260.
A survey of the major categories of behavior pathology, including a consideration of etiology, diagnosis, and treatment.

485. Special Topics in Psychology (3 hours)
Prerequisites: PSY 303 and consent of instructor.
An advanced study of psychological theories that is not available through other departmental course offerings. May be taken more than once, for a maximum of six hours credit toward the psychology major.

490a. Empirical Project in Psychology I (2 hours)
Prerequisite: PSY 303 and consent of chair.
The development and completion of an acceptable proposal for an empirical project on a psychological topic.

490b. Empirical Project in Psychology II (2 hours)
Prerequisite: PSY 490a.
The implementation and completion of the project proposed in PSY 490a.

495. Directed Independent Research (1-4 hours)
Prerequisites: PSY 303 and consent of supervisor and chair.
Requirements include selection of a problem area, survey of relevant literature, research and report of these findings. Graded S/U.

496a. Honors Project in Psychology I (2 hours)
Prerequisites: Candidate for Departmental Honors in psychology; PSY 303.
The student must make formal application to the departmental chair and, if approved, register for this course instead of 490a. The student must then submit an honors project prospectus that meets the approval of a committee of three faculty members from the department. The student will produce a formal manuscript and orally present a proposed empirical project.

496b. Honors Project in Psychology II (2 hours)
Prerequisite: PSY 496a.
The implementation and completion of the project proposed in PSY 496a. The student will produce a formal manuscript and orally present the results of this proposed empirical project.
The Scientific Inquiry program provides the general introduction to science for the beginning university student with contributions drawn from the natural, behavioral and social sciences. SCI 105 is a requirement in the College of Liberal Arts General Education Program. This course is designed to help students gain skills in the practice of the methodology of science and improve their critical thinking skills. Scientific Inquiry explores the role of science as a creative human endeavor permeating our society through a case study approach. Among other things, students will evaluate science and scientific methods as bases for both public and private decision-making, and examine the limits of science as a tool for understanding the world.

105. Scientific Inquiry  (3 hours)
An introduction to the human activity of science in its broadest terms, including examples drawn from the natural, behavioral and social sciences. The course includes the investigation of the logical, empirical, and mathematical modes of thought that contribute to its endeavors; the type of knowledge obtainable with its application; the social, ethical, and political contexts of its practice; and the kinds of discourse used in its communication.

110. Elements of Discovery  (2 hours)
Prerequisite: SCI 105.
This eight-week science laboratory module is a study of selected topics in biology, chemistry, and physics. Subjects may include, but are not limited to ecology, thermal and electrical conductivity, chemical equilibrium, animal behavior, laws of motion and gravity, and the periodic table. Learning through inquiry/discovery will be emphasized during laboratory sessions. A lecture and laboratory course.
111. Science at the Interface

Prerequisite: SCI 105.

This eight-week science module is an introduction to science as an interdisciplinary pursuit. A combination of lectures and laboratory investigations will illustrate the technologies used every day in fields such as forensics and medicine as an integration of fundamental concepts developed in chemistry, biology, and physics. Problem solving skills will be emphasized, and laboratory exercises will provide opportunities to understand scientific principles. The course includes three one-hour lectures, and one three-hour lab per week.

SENIOR CAPSTONE PROGRAM (SCP)

Scott Nash, Director/Associate Professor of Christianity
Ian Altmann, Associate Professor of Music
Phillip Bean, Professor of Mathematics
Peter C. Brown, Professor of Philosophy and Interdisciplinary Studies
Joan Burtner, Assistant Professor, School of Engineering
Greg Domin, Associate Professor of Political Science
Mary Ann Drake, Chair/Professor of Interdisciplinary Studies
John Dunaway, Professor of Foreign Languages and Literatures
Darlene Flaming, Associate Professor of Christianity
Sarah E. Gardner, Associate Professor of Philosophy
Randall Harshbarger, Visiting Assistant Professor of Interdisciplinary Studies
Eimad Houry, Chair/Associate Professor of Political Science
Gordon R. Johnston, Associate Professor of English
Leona Kanter, Chair/Associate Professor of Sociology
Mary Hope McLwain, Associate Professor of Mathematics
Mary Alice Morgan, Director of Women’s and Gender Studies and Professor of English
Paul F. Oppy, Professor of Communication and Theatre Arts
Robert Parris, Professor of Music
David Gregory Sapp, Assistant Professor of Christianity and Interdisciplinary Studies
John Thomas Scott, Associate Professor of History
Walter Shurden, Professor of Christianity
Charlotte S. Thomas, Chair/Associate Professor of Philosophy and Associate Professor of Interdisciplinary Studies
Douglas Thompson, Fellow, University Commons
Edward Weintraut, Associate Dean; Professor of Foreign Languages and Literatures
Marian Zielinski, Professor of Communication and Theatre Arts

Senior Capstone courses are interdisciplinary seminars focused on significant questions or issues not regularly explored elsewhere in the curriculum. Their purpose is to provide a “capstone” for the general education program and to encourage students’ awareness of themselves as majors in their disciplines, prospective workers, and citizens. Seniors from different majors share and compare their perspectives and expertise; spiritual and ethical values are explored, as well as intellectual ones.

Successful completion of a Senior Capstone course is a graduation requirement for College of Liberal Arts students. Several courses from the curriculum...
below are offered each semester as well as in the summer. These courses will use materials from a variety of disciplines and require seminar discussions and extensive writing.

Enrollment in each section is limited to encourage participation. It is the student's responsibility to arrange his or her schedule to accommodate one of these courses in the senior year. Senior Capstone courses are limited to students who have earned at least 90 hours credit. Only one Senior Capstone may be counted as part of the 128 hours required for graduation.

450. Search for Expression: The Arts and Society (3 hours)
An examination of the manner in which the performing and plastic arts affect contemporary American society. Particular attention will be given to the expressive characteristics of various art forms and their potential to enrich our lives individually and collectively. The ultimate goal of this course is to cultivate a civic awareness and appreciation of the significance of the performing and plastic arts.

451. Self and World: Issues of Choice and Responsibility (3 hours)
An examination of some of the important challenges to personal integrity and fulfillment that face us in the contemporary world. Particular attention will be given to personal responsibility and decision-making in regard to such topics as: the impact of technological change, global interdependency and citizenship, vocation and values, attitudes toward "marginal" individuals, the changing meaning of the stages of life, narcissism and the limits of individualism, the legislation of moral and social values, personal rights, and the decision about who shall live.

453. The Human Prospect in a World of Scarcity (3 hours)
An examination of contemporary problems and long range prospects for the U.S. and the world with respect to energy consumption, food supply, population growth, resource depletion, and environmental degradation and pollution. The technical, scientific, economic, sociological, political, and ethical dimensions of these problems will be explored. Particular attention will be paid to the relationship of "have" and "have not" nations and to the possibilities for change toward sustainable material well-being for the whole world.

454. American Destinies Since the Great Depression (3 hours)
An examination of the essential character of the American experience as it has evolved through the lives of the three generations who have come to maturity since the Great Depression. Particular attention will be given to changes in personal values and meanings, in attitudes toward racial minorities and women, in our sense of national purpose, and in our understanding of our past and hopes for our future.

455. Genocide and the Holocaust (3 hours)
An examination of the development of modern genocide as an instrument of national and ideological politics, including the roles of technology, bureaucracy, the professions, religion, and ethics. Particular attention will be given to the causes of the Armenian Genocide and the Nazi Holocaust and the nature of the victims, perpetrators, rescuers, and bystanders involved in these events.

456. Male and Female in American Culture (3 hours)
An examination of the social origins and the ideological bases for the distinction of male and female roles historically and in contemporary society. Particular attention will be given to images of the masculinity and the femininity in the media and
popular culture, to changing gender roles in the family and workplace, and to discrimination based on gender.

457. The Quest for Wholeness (3 hours)
An examination of the meaning of suffering in human life and the nature of fulfillment. Particular attention will be paid to the educational strategies, psychophysiological techniques, and spiritual perspectives by which man has attempted through the ages to reconcile the reality of suffering with the search for fulfillment in human experience.

458. Death and Dying (3 hours)
An examination of the significance of death encountered as the why that hovers over human existence and endeavor. Particular attention will be paid to the variety of ways individuals understand and relate to their deaths and to the way our society organizes itself to cope with death.

459. Black and White in American Culture (3 hours)
An examination of race and racism in American society. The evolution of black-white relations from the ante-bellum period to the present will be scrutinized historically, psychologically, and sociologically using the literature of the period.

460. In Search of a Calling: Issues of Vocation and Work (3 hours)
An examination of the relationship between who we are (vocation) and what we do (work). Particular attention will be given to exploring the psychological, social, and spiritual aspects of personal identity formation and to evaluating criteria and options for making career choices, determining what constitutes "good" work, and assessing professional ambition and success.

SOCIOLOGY (SOC)
INCLUDING ANTHROPOLOGY (ANT) and CRIMINAL JUSTICE (CRJ)

Leona Kanter, Chair/Associate Professor
Joanna M. Watson, Professor
Fletcher Winston, Assistant Professor

The objectives of the department are (1) to provide students with a critical awareness and understanding of the social world of which they are a part; (2) to familiarize students with their social responsibilities as members of society; (3) to provide a basic foundation for advanced study and possible careers in sociology or social work, criminal justice, and anthropology; (4) to provide a knowledge of social interaction and social structure useful for students entering business, government, and the professions. A major in sociology consists of nine courses (29 hours) including SOC 101 (prerequisite to all 300 and 400 level Sociology courses), 301, 302, 304, 404a, and 404b, as well as one additional elective. In addition, one course must be taken from each of the following three:

1. Problems (SOC 210, 295, 310, 313, 315, 345)
2. Structures (SOC 320, 321, 323, 325, 330, 335, 340, 367)
3. Special areas (SOC 390, 395, 490, ANT 201, CRJ 260)

At least 15 hours toward the major must come from courses numbered above 300.
A minor in sociology consists of a minimum of 16 hours, including SOC 101, 301, and 304.

A minor in anthropology consists of a minimum of 15 hours, including ANT 201 and 12 additional hours in Anthropology, six of which must number 300 or above.

The minor in criminal justice consists of 16 credit hours, including SOC 101, CRJ 260, CRJ 490 (for 3 credit hours only), and two 300-level Criminal Justice courses. With permission of the chair, SOC 313 may be taken in place of one of the two 300-level CRJ electives in the minor.

Majors may qualify for Departmental Honors in sociology by qualifying for membership in Alpha Kappa Delta, the International Sociology Honor Society.

101. Introductory Sociology (3 hours)
A survey of the basic concepts, theories, methods, and research associated with the sociological analysis of society. Emphasis will be placed on the study of major forms of human association and interaction, as well as the social structures and processes that affect the individual. Laboratory activities complement classroom instruction.

210. Social Problems (3 hours)
An examination of the principle causes, consequences, and solutions of major societal problems from a sociological perspective. The emphasis on specific social problems may vary, but attention will be given to such contemporary issues as social class inequities, discrimination, poverty, violence, deviance, social justice, population trends, technology, and change.

295. Ethnic Minorities (3 hours)
The position and function of minorities in American Life. Contemporary problems, patterns and significance of race relations are analyzed.

301. Classical Sociological Theory (3 hours)
This first course in a two-course sequence in sociological theory introduces students to the masters of sociological thought. It focuses on the influence of eighteenth and nineteenth century thinkers on the classical formulation of sociology’s primary concerns and traditions.

302. Contemporary Sociological Theory (3 hours)
Prerequisite: SOC 301.
The second of two theory courses, this course emphasizes contemporary sociology focusing on Parsons’ Action Theory, Neo-functionalism, the Frankfurt School and Analytical Conflict Theory, Symbolic Interactionism, and alternative systems models.

304. Introduction to Social Science Research Methods (4 hours)
(Same as ENV 304)
MAT 226 is recommended.
In this course students are introduced to fundamental ideas and methods of social science research, including the link between theory and research, the evaluation of research literature, the basics of research design, and the principle elements of surveys, experiments, and field research. Students will complete laboratory exercises in these areas and will learn basic descriptive statistics through the use of a standard statistical analysis program (e.g. SPSS).

310. Social Work (3 hours)
An historical and philosophical examination of social welfare services and social
work practice. Attention is given to the societal and value context in which the American social welfare system evolved and to the development of social work as a profession.

313. Social Deviance (3 hours)
A study of the social boundaries that separate normal behavior from deviant behavior. This includes historical shifts in definitions of deviance, the social function of deviance, the influence of “moral entrepreneurs” and powerful groups in defining and enforcing deviance, and social efforts to minimize deviant behavior. Attention is also given to “ambiguous deviance” and the medicalization of deviance in American society.

315. Social Gerontology (3 hours)
A study of the biological, psychological, and sociological aspects of aging and the aged population in contemporary society. Special attention will be given to the economic, political, and social problems of the aged.

320. Social Interaction (3 hours)
The sociological study of the patterns and modes of social interaction conditioned by group membership; an analysis of the emergence of groups and the basis of their formation and function; and an exploration of implications of contacts between groups. The types of relations between groups and the reactions of groups and individuals in the group to social interaction are studied.

321. Global Social Inequality (3 hours)
This course deals with the nature and impact of economic, political, and status differences in modern societies. It examines theories of dependency, modernization, neo-colonialism, and cultural and civilizational clash. It is centrally concerned with the nature, distribution, and consequences of unequal wealth and power for social cohesion and stability at the individual and societal levels.

323. Medical Sociology (3 hours)
Prerequisite: SOC 101
This course describes and contrasts the Functionalist, Conflict, and Symbolic Interactionist models of health and sickness. It traces the historical development of “illness” definitions as ways of defining, managing, and controlling behavior. Included in the course are discussions of medical “gatekeeping”, bioethical issues in medical decision-making, the formulation of national health care policy, and the organization of health care delivery systems.

325. Urban Ecology (3 hours)
The focus of “urban ecology” is the synergistic relationship between people and the urban environment (social, physical and institutional), to include the essential bond between human and natural environments. It includes the study of the historical development of cities, current urbanization trends and impacts, the critical role of the local community in the development of human relations and institutions, community leadership and organization, and the relationship of the urban and natural environment.

330. The Sociology of Language, Culture, and Communication (3 hours)
The sociological study of language and communication with attention given to language as the organ or medium for comprehending reality; semantics and the problem of meaning; the relation between language and the cultural history of a people.
334. The Family (3 hours)
(Same as WGS 335)
A study of family structure and functions including the changing role of the family in history; gender roles within the family; the economic, biological, and psychological aspects of the contemporary American family; and family disorganization and reorganization.

340. Sociology of Religion (3 hours)
A study of religion in American society from the standpoint of its relationship to the economic, political, and cultural life of the people.

345. Environmental Justice (3 hours)
(Same as AFR/ENV/POL 345)
This course examines the impact of institutional racism on environmental and health policies, industrial practices, government regulations and rule making, enforcement, and overall quality of life in people-of-color communities. The course will examine the nexus between environment protection and civil rights, and the impact of the environmental justice national environmental groups.

367. Law and Society (3 hours)
(Same as CRJ 367)
This course studies the moral and cultural values which shape our legal system and the pervasive impact of that system on our society and culture. Through an in-depth examination of the most controversial legal-societal issues of the day, the course will illuminate the evolving role and interaction of the public, the judiciary, and the legislature in defining and enforcing social norms, thus shaping the American social and cultural landscape.

390. Special Topics in Sociology (3 hours)
Prerequisite: Consent of instructor and chair.
A study of some significant topic in sociology that is not available through other departmental course offerings.

395. Supervised Independent Reading and Research (3 hours)
Prerequisite: Consent of instructor and chair.
Intensive reading of selected works on some sociological topic or directed research on a sociological problem involving the collection of original data. May not be repeated.

404a. Empirical Project I (2 hours)
Prerequisite: SOC 304.
Using the knowledge and skills acquired in SOC 304, students will develop an acceptable proposal for an empirical project on a sociological topic. Additional training in inferential statistics using a standard statistical analysis program (e.g. SPSS) will be provided.

404b. Empirical Project II (2 hours)
Prerequisite: SOC 404a.
Students will implement and complete the project proposed in SOC 404a. Additional training in inferential statistics using a standard statistical analysis program (e.g. SPSS) will be provided. Students will produce written reports of their project and will report their results at an academically recognized public forum (e.g. Georgia Sociological Association meetings, Mercer University's Undergraduate Research Symposium, or the Southeastern Undergraduate Sociological Association meetings at Emory/UGA).
490. Internship Program
Prerequisite: Consent of instructor and chair.
An internship program offering practical experience through field work. The student is responsible for all arrangements.

ANTHROPOLOGY (ANT)

(ANT 201 is a prerequisite to all other ANT courses).

201. Introduction to General Anthropology
The study of the evolution of humans and culture including the dawn of civilization, race and culture; also primitive culture and society (food gathering, art, religion, language, the family, social classes, clothing and ornament, etc.) Attention is also given to the American culture configuration, human behavior in cross cultural perspective, and the field of culture and personality.

350. Cultural Anthropology
An analysis of the culture areas of the world with in-depth studies of cultures within each of these areas, including the way the cultures were before contact with Western civilization and the effect of this contact on the cultures.

352. Cultures of the Americas
An exploration of the migration and first inhabitants of the “New World” and of the cultures which they developed in relative isolation. Their cosmologies, social organization, modes of subsistence, rituals and art will be studied. We will also examine their legacy which remains with us today. Field trips included.

354. Cultural Archaeology
The study of extinct cultures using artifactual remains. The data gathering techniques of excavation, labeling, and dating are demonstrated. Prevailing models of interpretation are reviewed, and the notion of cultural process is explored. Field trips are required.

356. Archaeology of the Goddess
(Same as WGS 385)
An examination of the existence of feminine deity through evidence offered by the prehistorical archaeological record and origin mythologies. The dynamics of cultural change are explored in tracing the rise of patriarchal religion.

390. Special Topics in Anthropology
Prerequisite: Consent of instructor.
A study of some significant topic in anthropology that is not available through other departmental course offerings.

CRIMINAL JUSTICE (CRJ)

(CRJ 260 is prerequisite to all other CRJ courses)

260. Criminal Justice System
An overview and analysis of the major components of the criminal justice system: criminal law, law enforcement, the judicial and correctional processes, and related topics.
360. Criminology (3 hours)
An analysis of the major theories of criminal behavior, the nature and types of crime, and the relationship between crime and society. Special emphasis will be placed on the relationship between the notion of crime, punishment, and justice.

362. Juvenile Delinquency (3 hours)
A study of the nature and extent of juvenile delinquency in contemporary society, with particular emphasis on theories of causation, treatment, and control.

367. Law and Society (3 hours)
( Same as SOC 367)
This course studies the moral and cultural values which shape our legal system and the pervasive impact of that system on our society and culture. Through an in-depth examination of the most controversial legal-societal issues of the day, the course will illuminate the evolving role and interaction of the public, the judiciary, and the legislature in defining and enforcing social norms, thus shaping the American social and cultural landscape.

390. Special Topics in Criminal Justice (3 hours)
Prerequisite: Consent of instructor and chair.
A study of some significant topic in criminal justice that is not available through other departmental course offerings.

490. Internship (3-6 hours)
Prerequisite: Consent of instructor and chair.
The internship offers practical experience through field work. The student is responsible for all arrangements.

SOUTHERN STUDIES (SST)

236. The Study of a Literary Theme: (variable topic) (3 hours)
( Same as ENG 236)
This course examines a particular theme in various literary forms. In addition to learning how to read a literary text closely and carefully, the student will be required to develop an ability to read, think, and write critically.

480. Senior Seminar in Southern Studies (3 hours)
A course designed to fulfill the exit requirement for students seeking a concentration in Southern Studies. Emphasizing supervised research projects, this seminar enables students to compare methodologies and perspectives to examine specific problems in Southern Studies, and sharpen their skills as researchers and writers. This course is required for the Southern Studies concentration.

UNIVERSITY (UNV)

101. The Freshman Experience (1 hour)
Who can answer my questions? What resources are available? How can I get the most out of college? A course that introduces students to the structure of higher education and specific Mercer policies. Issues such as successful study skills, cultural diversity, critical thinking, ethics, personal relationships, health, safety, and careers are all introduced and discussed. Required of all freshmen who are not enrolled in an experiential section of First-Year Seminar. Graded S/U.
The Women’s and Gender Studies major and minor offer an opportunity for students to explore the differences in the roles of men and women in society and the related differences in their expectations and experiences of life. Additionally, the major and minor provide a comprehensive, coherent, and carefully chosen course of study that enables students to reach a more complete understanding of the history, position, and achievements of women in culture. Students will be introduced to the questions raised and methods used in the new scholarship on women and gender.

An interdisciplinary program of study, the Women’s and Gender Studies major and minor also complement a wide range of other fields of study. Students planning careers in law, business, medicine, education, service, and the sciences find the study of gender in society useful.

A major in Women’s and Gender Studies consists of 27 semester hours, including WGS 180, 201, 401, three hours of either WGS 485 or 490, and fifteen hours of additional coursework. Of those fifteen hours: nine must be at the 300 level or above, one course must fulfill the global/multicultural designation, and courses must be in more than one of the following areas: Humanities, Social Sciences, and Natural Sciences.

Area designations for regularly offered courses are as follows. Students should consult the WGS program director for designations for “Special Topics” courses.

- Global/Multicultural: WGS 240, 389, 314 or approved WGS 285, 385, 485.

A minor in Women’s and Gender Studies consists of 15 semester hours, including WGS 180, 201, 401, and at least two additional courses, one of which must be numbered 300 or above.
Majors seeking Honors in Women's and Gender Studies may do so by fulfilling the following requirements: (1) A minimum average 3.50 GPA in the core WGS curriculum and cross-listed courses; (2) An overall minimum average 3.50 GPA; and (3) Successful completion of a Senior Research Project at a level judged worthy by a panel of three faculty, with the director of the panel being a faculty member who teaches within the Women's and Gender Studies Program. Upon successful completion of the project, the student will receive 3 hours of credit for WGS 490.

It is highly recommended that students who wish to enroll in WGS cross-listed courses have already taken WGS 180 or relevant prerequisites or the introductory course(s) in the cross-listed discipline.

Students seeking Honors in Women's and Gender Studies may do so by fulfilling the following requirements:

1. A minimum average 3.50 GPA in the core WGS curriculum and cross-listed courses.
2. An overall minimum average 3.50 GPA.
3. Successful completion of a Senior Research Project at a level judged worthy of Honors by a panel of three faculty, with the director of the panel being a faculty member who teaches within the Women's and Gender Studies Program. Upon successful completion of the project, the student will receive 3 hours of credit for WGS 490.

**Major Requirements:**

I. Core: 9 hours
   - WGS 180, Gendered Lives.
   - WGS 201, Women and Society. Prerequisite: WGS 180.
   - WGS 401, Feminist Theory. Prerequisites: WGS 180, 201.

II. Cross-listed 200-level courses, WGS 285, and 300-level courses: 15 hours.
   Students choose 5 courses with the additional stipulations that:
   - Nine hours must be at the 300 level or above.
   - At least one course must have a global/multicultural/ethnic minority component.

   Courses must be in at least two of the following three areas:
   - Humanities
   - Social Sciences
   - Natural Sciences

III. Coursework at 400 level: at least 3 hours
   - WGS 485: Seminar (3 hours) or
   - WGS 490: Directed Independent Study (1-3 credit hours)

   Total: 27 hours

**180. Gendered Lives (3 hours)**
An examination of how we live our lives as “men” and “women.” This course investigates the biological basis and cultural construction of gender, with particular attention to cross-cultural examples and the history of challenges to the status quo of gendered societies. (May not be taken before Spring Semester of the freshman year)
201. Women and Society (3 hours)
Prerequisite: WGS 180.
An examination of the images, roles and contributions of women in scientific, historical, literary, religious, social, political, philosophical, and artistic contexts, to include contemporary issues. Includes an introduction to research methodologies appropriate for women's and gender studies.

240. Multicultural Women Writers (3 hours)
(Same as ENG 240)
Prerequisite: FYS 101
An analysis of the writings of contemporary American women of diverse cultural backgrounds. Reading and discussing novels, short stories, and poetry, this course will explore the ways that these writers navigate being American and being culturally "other" within a homogenizing "melting pot" society.

270. Psychology of Gender (3 hours)
(Same as PSY 270)
Prerequisite: PSY 101 or consent of instructor.
Examination of the theory and context in which the social construct of "gender" develops, and the impact this has on our perceptions of ourselves, how others perceive us, and how we relate to others. Emphasis will be placed on the diversity of such experiences.

285. Special Topics (3 hours)
A study of some significant topic in women's and gender studies not covered in the regular offerings. May be repeated with different topics.

314. Women in Developing Countries (3 hours)
(Same as POL 314)
Prerequisites: POL 253/IAF 253, Introduction to International Affairs.
This course offers an opportunity to learn about the status of women in developing countries, in general, and the role of women in development, in particular. The course examines the substance and direction of interactions among women, their political structures, and economic systems throughout the developing world. Multiple perspectives and models are explored, including, but not limited to, dependency theory, modernization theory, globalization, feminist sociology, and post modernism.

332. Women and U.S. Politics (3 hours)
(Same as POL 332)
Prerequisite: POL 101.
This course explores multidimensional aspects of gender and political life in America. Readings and class discussions will concentrate on the following themes: (1) how gender influences political behavior and public policy; (2) how women have challenged the political status quo; (3) the intersection of gender, race, class, and sexuality in the transformation of U.S. politics.

334. The Family (3 hours)
(Same as SOC 335)
A study of family structure and functions including the changing role of the family in history; gender roles within the family; the economic, biological, and psychological aspects of the contemporary American family; and family disorganization and reorganization.
335. Women and Gender in Early Modern Europe (3 hours)
(Same as HIS 335)
An examination of changing notions of gendered identity and authority with particular focus on ideas concerning the body, sexuality, and the family in European culture from the dawn of modernity during the Renaissance through the cataclysmic changes of the nineteenth-century Industrial Revolution. Topics include the life-cycles of early modern people, religious and medical theories relating to the body and sexuality, structures of family-life and attitudes towards domestic violence, as well as the impact of class, nationality, and ethnicity on gender and identity.

363. Women and Christianity (3 hours)
(Same as CHR 363)
A biblical, historical, and theological examination of the role of women within the Judaeo-Christian tradition.

370. Women in Art (3 hours)
(Same as ART 370)
The contributions of women in the field of art and the social context in which they have worked as well as the depiction of women in works of art are both considered in order to discover the criteria by which we judge works of art (and artists) and how visual images can reinforce or change our sense of reality, such as assumptions about gender roles. Offered alternate years.

377. U.S. Women's History, Colonial Era to the Present (3 hours)
(Same as HIS 377)
A study of the meaning and place of women in U.S. society from the colonial era to the present by reading major secondary works and selected primary documents in the field. Students will address major themes in U.S. women's history, including family, sexuality, work, and reform, within the broader context of American history. In addition, this course addresses the historiography, implications, methodologies, and future directions of the discipline.

378. Images of Women in Literature (3 hours)
(Same as ENG 378)
A study of the literary representation of women, with emphasis on the lives and careers of women writers. Authors covered may include Austen, Bronte, Wharton, Woolf, Morrison, and others.

383. AIDS: Narratives of Disease (3 hours)
(Same as ENV 383)
This interdisciplinary course gives students sufficient information for them to make informed decisions about their behaviors and their lives. Students will confront and grapple with the biological, social, historical, environmental, psychological, and cultural issues which the AIDS pandemic represents. The diverse populations affected by AIDS—gays, children, women, Africans—will be discussed. AIDS and other historic plagues raise numerous moral and ethical issues regarding public health, resource allocation, individual versus group rights, and the sweeping effects of trying to keep people healthy. Books, articles, speakers, films, and classroom discussion serve as the texts for the course.

385. Special Topics: Archaeology of the Goddess (3 hours)
(Same as ANT 356)
An examination of the existence of feminine deity through evidence offered by the prehistorical archaeological record and origin mythologies. The dynamics of cultural change are explored in tracing the rise of patriarchal religion.

389. The Black Woman (3 hours)
(Same as AFR 389)
An historical and literary examination of the black woman and her role in American culture.

390. WGS Preceptorship (2 hours)
Prerequisite: WGS 180.
Selected upperclass students will serve as teaching facilitators in WGS 180. They will attend all classes, read the assigned work, and participate in class discussions. Each student will reflect on the preceptor experience by writing a learning journal during the semester. This course will be graded on an S/U basis, may be taken only once, and cannot be counted as one of the courses required for the WGS minor.

401. Gender Theory and Feminist Thought (3 hours)
Prerequisites: WGS 180, WGS 201, and one WGS course numbered above 300; or consent of instructor.
An interdisciplinary examination of theoretical perspectives in women’s and gender studies, including the history of Western ideas on gender and the impact on traditional academic disciplines of the “new scholarship” on women and gender. Connections between critical theories and collective movements or social change will be emphasized.

480. Internship (3-12 hours)
Prerequisite: WGS 180 and 201 and consent of WGS Director.
Open to WGS majors and minors only. Does not count toward the major or minor. An internship offering majors and minors practical field work with local or national women-oriented organizations. Students are expected to work for the local or national agency for no fewer than 3 hours per week for each credit hour awarded. Graded on an S/U basis.

485. Seminar (3 hours)
Prerequisite: To be determined by instructor.
Structured seminar-style discussion involving intensive study of an issue or topic in women’s and gender studies. May be repeated with different topics.

490. Directed Independent Study (1-3 hours)
Prerequisite: Consent of the instructor.
An intensive reading and research project culminating in either a research paper or an annotated bibliography. May be repeated with different topics. (1-3 hours credit, depending upon the scope of the project).
The Eugene W. Stetson School of Business and Economics
Macon Campus

To be named, Dean
William Stewart Mounts, Jr., Ph.D., Associate Dean/Professor
Farhad Frank Ghannadian, Ph.D., Associate Dean/Professor
Gina L. Miller, Ph.D., Assistant Dean/Associate Professor
Scott A. Beaulier, Cassie F. Bradley, James E. Coleman, Harold B. Jones, D. David McIntyre, John R. Miller, Faye A. Sisk, and William V. Luckie (Emeritus), Assistant Professors

The Mission of Mercer University’s Stetson School of Business and Economics

Mission

The Stetson School of Business and Economics (SSBE) promotes the advancement and integration of quality business education and practice. In support of Mercer University’s mission, the School provides undergraduate and graduate programs that are designed to enable, enhance, and expand professional careers, civic responsibility and lifelong learning.

Performance Objectives

Fulfillment of the Mission is gauged by the SSBE’s performance against the following objectives:

1. To graduate students who possess the requisite knowledge and skills for productive and continuing careers in business, government and other institutions;
2. To prepare and enable students to work effectively in the increasingly complex and diverse environments of modern organizations;
3. To provide students with opportunities to identify ethical dilemmas and ethical implications of decision-making inherent in business and society;
4. To graduate individuals who possess communication, critical thinking, problem-solving and other creative skills necessary for obtaining and maintaining organizational positions;
5. To provide students with examples and opportunities for integration of business theory and application;
6. To promote the value of community service and social responsibility by providing opportunities for student involvement in community and professional services.

**Operational Priorities**

The Stetson School of Business and Economics supports the teacher-scholar model that views teaching, faculty scholarship and service as interactive elements in the educational process. Teaching includes effective classroom instruction and advising. Scholarship includes both intellectual contribution to the business field and continued individual professional development. Service includes contributions to the school, the University, the business community and society.

**Accreditation**

The SSBE is accredited by AACSB International–The Association to Advance Collegiate Schools of Business, 600 Emerson Road, Suite 300, St. Louis, MO, 63141-6762; www.aacsb.edu.

**Values**

In fulfilling the Mission and by following the operational priorities, the SSBE supports the following values:

1. commitment to teaching excellence;
2. commitment to scholarship and service that enhances the learning environment;
3. collaboration with business and academic communities to create, share and apply knowledge;
4. inclusion of stakeholder perspectives in decision-making and continuous improvement;
5. creation of a learning community that fosters ethical decision-making and intellectual curiosity;
6. sustainment of a personalized, student-oriented environment which facilitates collaboration and on-going relationships among students, faculty, alumni, and the business community;
7. value of civic responsibility and the importance of community and professional services;
8. diversity of thought, perspective and experience in faculty and students.

**Code of Conduct**

Honesty and integrity are necessary to the academic and professional functions of business. Acts of dishonesty undermine the basic foundation of the academic environment. Students have a responsibility to: strive toward, and encourage the pursuit of, academic excellence and professional knowledge; conduct themselves in a dignified and ethical manner; abide by the procedures, rules and regulations of Mercer University; and respect the guidelines prescribed by each professor in the preparation of academic assignments. On the Macon campus, cases of alleged infractions of these procedures and/or prescriptions, shall be governed by the policies and procedures of the Mercer University Honor System for undergraduate schools.
Undergraduate Degrees

The Stetson School of Business and Economics offers the Bachelor of Business Administration (B.B.A.) degree, with a Managed Academic Path to Success (MAPS) program of study.

Students interested in combining their business studies with an exposure to engineering fundamentals and psychology should consider the Industrial Management program jointly offered by the Stetson School of Business and Economics, School of Engineering, and Psychology Department of the College of Liberal Arts. More information may be found in the School of Engineering section of this Bulletin.

Graduate Degrees

Information on the Master of Business Administration program is published in this Bulletin in the Graduate Section.

Study Abroad Program

The Stetson School of Business and Economics Study Abroad Program offers students an excellent opportunity to study different cultural and organizational perspectives and to explore their effects on business concepts and practices. This international experience, which carries six (6) hours of credit in Business, is an important component of the School's academic programs. The Study Abroad program includes lectures in international management, marketing, finance, and law, cross-cultural simulations, and visits to varied public and private sector organizations. Interested students should contact the Program Director for specific information. A variety of other study abroad programs are available through the University’s Office of International Programs.

International Student Services

The University provides information to international students about government regulations concerning F-1 Student Visas and other assistance services. International Students are encouraged to seek assistance from the Division of Student Life and from the Office of International Programs.

UNDERGRADUATE PROGRAMS POLICIES AND PROCEDURES

Development of a Managed Academic Path to Success (MAPS)

The Stetson School of Business and Economics offers programs in Macon, on the Cecil B. Day Campus in Atlanta, and at distributed campuses in Douglas County and Macon. Elective course offerings and availability of programs at the various locations may differ.

Upon entering the University all students, freshmen and transfers, indicating a preference for the B.B.A. degree are admitted to the Stetson School of Business and Economics. At this time each student is assigned to a School Faculty advisor. All students in the Macon day program enter under the Managed Academic Path to Success (MAPS) program of study. The concept is that students are taken on a guided journey and discovery of themselves, their life aspirations, and an understanding of how these translate into a career path in business. In conjunct-
tion with an advisor, and generally around the second semester of his or her sophomore year, each student will develop a specific set of courses constituting his or her MAPS program of study. The student is then assigned to a faculty advisor appropriate to his or her MAP.

A MAPS program of study may be changed by following a defined procedure in consultation with an advisor. Caution: a belated change in a MAPS program of study may extend the time needed to complete a degree since all the requirements of the new program of study must be met.

**Undergraduate Transfer and Equivalency Credit Policies**

The following policies concern academic credit transferred from other regionally accredited institutions of higher education, and courses taken in other Units and at other locations within the University.

1. Semester credits which are accepted for transfer into the University are calculated on a one-for-one basis. Each transferred quarter hour of credit is awarded 2/3 semester hour of credit. Credits taken in any School or College of the University are recognized in all other Schools and Colleges of the University.

2. To fulfill any science general education requirement, transferred courses must include a laboratory component.

3. Upper division credit will be granted for business courses taken at another regionally accredited four year institution. Upper division credit for the Business Core Courses: BUS 350, ECN 301, ECN 302, ECN 303, FIN 362, MGT 363, and MKT 361 taken at a two year institution can be obtained by:
   a. Taking the CLEP test (if available) and earning a score in the 50th percentile or above, or,
   b. Taking an upper division course (300 or 400 level) in the same discipline and passing with a grade of “C” or better. This would validate the lower division course work, thereby satisfying the core requirement. Validation of the course does not reduce the number of upper division hours needed to graduate. Upper division credit will be granted for BUS 346 taken at a two year institution.

**Credit-by-Examination**

Credit-by-Examination toward undergraduate degrees may be earned through the College Level Examination Program (CLEP). On the General Examination, 3 semester hours may be earned on each of two subtests when the percentile is 50 or above and the score on each subtest is at the 50th percentile or above. On the subject examination, 3 or 6 semester hours (depending on the examination) may be earned if the score meets the 50th percentile. Credits on the General or Subject examinations have no grade point values. Credit is awarded to those students who take an Advanced Placement (AP) course and score a three (3) or better on the examination administered by the Educational Testing Service. Applicants should request The College Board to send test results to the Office of Undergraduate Admissions. Credit is awarded for scores of 5, 6, or 7 on the Higher Level examinations of the International Baccalaureate Program.

CLEP credit for courses in the major areas must be approved by the faculty of the academic discipline concerned. An official transcript from the College
Entrance Examination Board must be provided in order for the CLEP credit to be accepted as transfer credit.

Students presenting Advanced Placement, CLEP, or International Baccalaureate scores may not receive more than 32 hours total credit from any or all three sources. Under highly unusual circumstances, an appeal to the Dean may be made for credit greater than 32 hours.

**Satisfactory- Unsatisfactory Grading Option**

Students seeking the B.B.A. degree (regardless of grade average or year at Mercer) are permitted to take two courses per year on a Satisfactory- Unsatisfactory basis with the following restrictions:

1. Required mathematics or computer science courses may not be taken on a S-U basis.

2. No course in accounting, business, economics, finance, management, marketing, or which counts on a Managed Academic Path to Success program of study may be taken on a S-U basis, unless the course is graded on a nonoptional S-U basis.

Courses taken which are graded on a nonoptional Satisfactory-Unsatisfactory basis will not count toward the allowable two per year.

**Curriculum Comments**

Business students should be especially careful in selecting courses each term, even beginning in the freshman year. There are few free elective choices because of the general education requirements, mathematics and computer science requirements, the twelve-course required business core, and the Managed Academic Path to Success (MAPS) program of study.

The number of free elective classes is determined by many factors. A student who does not exempt any courses will have only 12 - 18 hours of totally free electives within the minimum 128 semester hours required for graduation. Students should consult their advisor to determine the number of free electives. Students should review the prerequisites for courses included with the course descriptions to ensure that these prerequisites have been satisfied before attempting to register for courses.

Hours credit toward graduation are not awarded for exempted courses. Hours credit are awarded only for courses successfully completed, courses transferred in, and examinations successfully completed through the College Level Examination Program (CLEP), Advanced Placement (AP), International Baccalaureate (IB), or the University’s Credit-by-Examination Process.

For special topics and research in accounting, business, economics, finance, management and marketing, credit hours are determined by the nature of the topic, with a maximum of 3 hours for a given subtitle. Various subtitles may be taken for a maximum of 6 hours credit in a student’s Managed Academic Path to Success program of study. A maximum of 6 hours of additional special topics credit may be taken outside the MAP but within the School.

School of Business and Economics (SSBE) MAP 101: The Freshman Business Experience, is required of all fall semester freshmen enrolled in the School. The goal of this course is to prepare business students for the journey ahead. The course introduces students to the structure of higher education and specific Mercer policies. It will also orient students to MAPS and acquaint them
with the resources in SSBE. In these sections, students are evaluated on a letter graded basis.

**Recognition of Scholarship**

**President’s List and Dean’s List**

The requirements for inclusion on the President’s List and the Dean’s List are specified in the University’s Undergraduate Academic Policies.

**School Honors at Graduation**

Honors may be earned independently from overall undergraduate honors (cum laude, magna cum laude, summa cum laude). The School Honors recognize those students who have performed at an exceptionally high level on course work within the School. The requirements are as follows: A grade point average of 3.75 or higher must be earned on Core Curriculum courses and in the Managed Academic Path to Success program of study. (Transfer students must attain a 3.75 or higher grade point average on all courses taken at Mercer in the Core Curriculum and the Managed Academic Path to Success program of study and a combined grade point average of 3.75 or higher on all courses in the Core Curriculum and Managed Academic Path to Success program of study at Mercer and at other institutions from which credit is received.)

**Academic Warning, Probation, and Suspension**

The policies on academic warning, probation and suspension are specified in the University’s Undergraduate Academic Policies. Students who are subject to suspension because they have not met minimum academic requirements by the end of the regular academic year will be allowed to attend the Summer Term in an attempt to meet the minimum.

**Academic Internships**

Academic internships are available and are an option in the experiential component of each student’s Managed Academic Path to Success program of study. Arrangements between the University and the entity providing the work experience are coordinated by the Office of Career Services, in the Division of Student Life.

**Executive Forum**

**Private Enterprise Week**

**Distinguished Practitioners Series**

The Executive Forum is Georgia’s premier business enrichment program. Founded in 1979 as a business outreach program at Mercer and the Stetson School of Business and Economics, the Executive Forum has become an invaluable resource for the business community and professionals across corporate Georgia by presenting high-quality management and leadership speakers on timely topics. The impressive lineup of speakers has included publisher Steve Forbes, political commentator Tim Russert, Wall Street strategist Louis Rukeyer, technology guru Jeff Levy and financial news anchor Lou Dobbs. Students are invited to attend selected forums, and some speakers address business classes.
Also, the School sponsors an annual Private Enterprise Week and a Distinguished Practitioners Series. Lectures and seminars for both students and the general public are presented. Executives and former executives from Accenture, Sunbeam, the Southern Company, Chick-Fil-A, Otis Elevator, Piggly Wiggly Southern, Flowers Industries, General Electric, Armco, Inc., Bendix, Horton Homes, and Gate Petroleum Company have appeared in recent years.

Undergraduate Degree Requirements

To qualify for graduation with the Bachelor of Business Administration degree the following requirements must be satisfied:

1. A minimum of 128 semester hours of academic courses with a cumulative grade point average of at least 2.0.

2. A minimum cumulative grade point average of 2.25 in all business courses taken (to include nonbusiness courses which count on a Managed Academic Path to Success program of study), either at Mercer or transferred from other institutions. The grade earned in MAP 101 is not included in this calculation.

3. A minimum cumulative grade point average of 2.25 in the total hours taken in a Managed Academic Path to Success program of study, to include courses transferred from other institutions. The grade earned in MAP 101 is not included in this calculation.

4. Completion of the general education requirements.

5. Completion of the mathematics, statistics and computer science courses required for the degree earned.

6. Completion of the courses required in the Business Core.

7. Completion of the courses and any other requirements for a Managed Academic Path to Success program of study.

8. Earn a minimum of 64 semester hours of academic credit in courses other than those which are offered by the Stetson School of Business and Economics, or which transfer to Mercer as business courses, or which count toward the business core curriculum or which are business courses which count toward a Managed Academic Path to Success program of study on the B.B.A. degree. For this purpose, up to nine semester hours of economics and up to six semester hours of basic statistics may count in the minimum 64 semester hours outside of Business. MAP 101 counts as hours outside of Business.

9. Earn a minimum of 30 semester hours from the Stetson School of Business and Economics. Students may count all economics courses taken in the Stetson School of Business and Economics toward meeting this requirement. Courses taken at another school or college of Mercer University, which meet the requirement of a business core curriculum course, will count toward meeting this minimum 30 semester hour requirement.

10. At least 12 of the minimum 15 semester hours in the traditional course component of the Managed Academic Path to Success program of study must be taken in residence at Mercer University, of which 9 must be taken in residence in the Stetson School of Business and Economics and from Business offerings.
11. Take the Senior Assessment Examination.
12. The recommendation of the faculty.

SSBE UNDERGRADUATE HONORS PROGRAM

Mission

The mission of the Honors Program of the Eugene W. Stetson School of Business and Economics of Mercer University is to provide an opportunity to highly qualified business students to excel in an environment that is intellectually challenging and to contribute to knowledge within their disciplines.

Admission Requirements

Entering freshmen are invited to apply to the University Honors Program on the Macon campus based on a minimum academic high school grade point average of 3.5 and a minimum SAT/converted ACT score of 1300. The first two years of the program are coordinated by the College of Liberal Arts. From the pool of applicants, freshmen will be invited to enroll in the University Honors Program on the basis of a combination of high school grade point average, class rank, SAT scores, performance in the scholarship competition during Scholarship Weekend, and understanding of the benefits of an Honors education. Participation in the program is by invitation only. Highly motivated students may be considered for the Honors Program during their freshman and sophomore years and enter upon invitation of the Undergraduate Program Director provided that they: (1) achieve and maintain a cumulative Mercer grade point average of 3.5 or better and (2) have not accumulated more than 60 semester hours credit toward the baccalaureate degree. First year students must complete HON 101, HON 102 and GBK 101 (see the College of Liberal Arts section of the Bulletin) with a grade point average of 3.5 of higher. Second year students must complete HON 201, HON 202, and an honors option course. Completion of these six courses is prerequisite, but does not guarantee admission to the SSBE Honors Program.

Undergraduate business students at all Mercer campuses will be eligible to apply for admission to the SSBE Honors Program after having completed 75 credit hours on the basis of grade-point average and faculty recommendation. Eligibility for initial enrollment will include a minimum 3.75 cumulative grade point average, a positive recommendation from a member of the SSBE faculty, and approval of the Undergraduate Program Director. Students who fail to qualify for admission to the program upon completion of 75 credit hours may apply later in the program, provided they achieve a cumulative grade point average of 3.75 or higher. They will be advised, however, that late entry into the program may require delay of their graduation from the program.

Honors Thesis

Upon admission into the program, each honor student will identify a topic for an independent research project and obtain approval of the topic from a professor in the relevant discipline who will serve as thesis advisor. The student and thesis advisor will jointly nominate two other faculty members to serve on a thesis committee. The student will register for one hour of thesis credit in each of three successive semesters (including one summer), culminating in the writing of an honors thesis which will be presented formally to the thesis committee for
approval. The student will submit the research for publication in the Mercer University Undergraduate Research Journal and for presentation at the Undergraduate Research Symposium, and provide a bound copy to the library.

**Continued Enrollment in the Program**

Admitted students will retain their honor-student status as long as their cumulative grade-point average remains at or above 3.75 and they make satisfactory progress on the Honors Thesis. Students whose grade-point average drops below 3.75 will be placed on program probation and be allowed one semester to raise it to 3.75. If they fail to do so after one semester, they will not be allowed to continue in the program. Similarly, students must achieve a grade of satisfactory on the Honors Thesis in each of the three semesters in order to retain their status in the program. (A “satisfactory” grade is based on the thesis advisor’s evaluation, in consultation with other committee members, that appropriate progress has been made toward thesis completion at a level of achievement equivalent to that usually awarded the grade of B+ or better.)

**Honors Degree**

Successful completion of Honors Program will lead to the awarding of an honors Degree from Mercer University. Approval of the thesis by the thesis committee, maintenance of a 3.75 grade-point average, an Honors Thesis grade of satisfactory in each of the three semesters, and compliance with the above thesis-submission requirements constitute successful completion of the Honors Program.

**CURRICULUM**

Students seeking the Bachelor of Business Administration degree must successfully complete the general education requirements, two or three mathematics courses, one computer science course, twelve business core curriculum courses, and a Managed Academic Path to Success of at least 21 hours.

**General Education** (40 or 45 hours)

Mercer University is dedicated to the ideal of educating the whole person and providing a foundation that can be described by the Greek term “Paideia”. Paideia is consistent with the founding vision of Jesse Mercer as he sought to encourage learning and culture for both clergy and laity. Teaching, character development, service and leadership, classical education, and the nurturing of a prevailing culture are all instrumental. Mercer’s aim is to prepare all students to contribute to society through a sharing of their knowledge, skills, and character.

Through the general education curriculum Mercer University graduates will be able to:

A. Reason effectively
B. Demonstrate broad and deep knowledge
C. Demonstrate habits of free inquiry
D. Demonstrate an understanding of themselves in light of the values and traditions upon which the University was founded.
From these four goals flow the intended educational outcomes for general education at Mercer University:

A.
1. Communicate clearly, responsibly, and with integrity in written and oral forms
2. Master at least the basic principles of mathematical and scientific reasoning
3. Identify, access, and evaluate information and materials as needed for personal, academic, and professional purposes

B.
4. Acquire foundational knowledge important to becoming an informed person and/or for the major
5. Relate theory, principles, and content from one discipline to another
6. Demonstrate familiarity with cultures and traditions other than one's own

C.
7. Work as part of a team/group, to learn and teach cooperatively, to develop an appreciation of individual differences, and to assess one's own and other's roles in a working group
8. Consider viewpoints other than one's own, including viewpoints associated with other cultures and traditions
9. Commit to live as an engaged and informed citizen

D.
10. Reflect on one's life and learning experience
11. Develop a respect for intellectual and religious freedom

Students seeking the B.B.A. degree must successfully complete either the Distributional General Education Program or the Great Books General Education Program. The Distributional General Education Program is described below:

1. First Year Seminar I (at least 4 hours)
   FYS 101 (4 or 5 hours)
2. First Year Seminar II (4 hours)
   FYS 102
3. Public Speaking or Writing (3 hours)
   BUS 281
   CTA 251, 256, 315, 353, 357, 358, 360
   ENG 307
   JRN 220, 232
   TCO 341
4. Literature (3 hours)
   CLA 101, 102
   CON 101, 102
   ENG 233, 234, 235, 236, 237, 263, 264, 265
   FRE 303, 304
   GER 351, 352, 353
   SPN 303, 304
5. History (3 hours)
   HIS 111, 112, 165
6. Religion (3 hours) (CHR 101 or 150 recommended)
   CHR 101, 150, 210, 335, 350, 353

7. Natural and Physical Sciences (5 hours minimum)
   1. SCI 105 (Required) (3 hours)
   2. A laboratory module or a laboratory science (at least 2 hours)
      1. Modules (2 hours each, 7 weeks each)
         BIO 105, 106
         CHM 103, 104
         ENV 103, 104
         PHY 101, MUS/PHY 103
         SCI 110
      2. Courses
         BIO 115, 116 (4 hours each), 210 (5 hours)
         CHM 108, 111, 112 (4 hours each), 115 (5 hours)
         ENV 150 (4 hours)
         ESC 105, 110, 115 (4 hours each)
         PHY 141 and 121L, 161 and 121L (4 hours each)

8. Behavior Sciences, Social Sciences, and Cultural Studies (3 hours)
   ANT 201
   CTA 165, 260
   PLS 200, 210
   POL 101, 253
   PSY 101
   SOC 101, 210
   WGS 180

9. Fine Arts, Language or Philosophy (3 hours)
   At least one course from a, b, c or d.
   a. Fine Arts
      CTA 115, 218, 272, 337
      MUS 104, 151
      PHO 221
      Applied Music: Voice, Piano, Organ, Band and Orchestral Instruments
   b. Philosophy
      PHI 190, 254, 255, 300, 305, 321, 331, 333, 337, 344, 351, 370, 371
      GBK 202
   c. CHN, FRE, GER, GRK, LAT or SPN 111 (4 hours each)
   d. Any other fine arts, philosophy or language course.

10. Electives (9 hours minimum):
    1. CHN, FRE, GER, GRK, LAT or SPN 112 (4 hours each)
       FRE, GER, LAT or SPN 251 (3 hours)
       FRE, GER or SPN 252 (3 hours)
       GRK, LAT 300 (3 hours)
    2. Choose courses from blocks 3 - 9 above, or from any discipline in the College of Liberal Arts represented in blocks 3 - 9 above, provided prerequisites have been met.
3. Choose courses from the following list:
   GBK 101
   SCP 451, 452, 453, 454, 455, 456, 457, 458, 459

**Commentary on Block 9 and 10**

1. A foreign language competency test is available. **The placement test may be taken only once, and the results are binding.** Students who exempt only FLL 111 will not receive area credit. That is, the language sequence 111-112 must be completed or exempted to get credit toward the Distributional Program. Area credit does not count toward graduation.

2. Students who exempt FLL 112 on the competency test will receive area credit for four (4) hours in block 9 and four (4) hours in block 10, for a total of eight (8) hours. Area credit does not count toward graduation.

3. Students who exempt FLL 251 or a higher level language course on the competency test will receive area credit for eleven (11) hours, four (4) in block 9 and seven (7) in block 10.

4. Students who place into and successfully complete FLL 251 or above may receive four additional graduation hours of credit towards graduation for the elementary sequence.

5. Students who transfer in foreign language courses which are equivalent to FLL 111, 112, or 251 at Mercer, will receive appropriate transfer hours for the courses, and may fulfill requirements toward blocks 9 and 10 as if they had taken (or exempted) the equivalent course(s) at Mercer.

6. Native speakers of a language other than English will receive area credit for eight (8) hours, four (4) in block 9 and four (4) in block 10.

7. Applied music credits must total a minimum of 3 hours, or multiples of 3 hours, to be counted at all in these blocks.

**The Great Books General Education Program is described below:**

1. First Year Seminar I (at least 4 hours)
   FYS 101 (4 or 5 hours)

2. First Year Seminar II (4 hours)
   FYS 102

3. Natural and Physical Sciences (5 hours minimum)
   a. SCI 105 (Required) (3 hours)
   b. A laboratory module or a laboratory science (at least 2 hours)
      1. Modules (2 hours each, 7 weeks each)
         BIO 105, 106
         CHM 103, 104
         ENV 103, 104
         PHY 101, MUS/PHY 103
         SCI 110
      2. Courses
         BIO 115, 116 (4 hours each), 210 (5 hours)
         CHM 108, 111, 112 (4 hours each), 115 (5 hours)
         ENV 150 (4 hours)
         ESC 105, 110, 115 (4 hours each)
         PHY 141 and 121L, 161 and 121L (4 hours each)
4. Foreign Language Competency (Exam or 8 hours of 1 language)
   CHN, FRE, GER, GRK, LAT or SPN 111-112 (4 hours each)

5. Great Books (24 hours)
   GBK 101, 202, 203, 304, 305, 306, 407, and 495

Commentary on the Foreign Language Competency Requirement

1. Students who exempt FLL 111 on the competency test will receive area credit for four (4) hours, and may fulfill the requirement by taking FLL 112. Area credit does not count toward graduation.

2. Students who exempt FLL 112 or a higher level language course on the competency test will receive area credit for eight (8) hours and have fulfilled the foreign language competency requirement.

3. Students who place into and successfully complete FLL 251 or above may receive four additional graduation hours of credit towards graduation for the elementary sequence.

4. Students who transfer in foreign language courses which are equivalent to FLL 111, 112 or higher level language at Mercer will receive appropriate transfer hours for the courses, and may fulfill the foreign language competency requirement as specified in items 1 and 2 above.

5. Native speakers of a language other than English will receive area credit for eight (8) hours and have fulfilled the foreign language competency requirement.

Commentary on Blocks 1 and 2, both General Education Tracks, for Transfer Students

1. Transfer students who have transfer credit for at least one year (30 semester hours) of college work may be exempted from FYS 101 and FYS 102. This policy does not apply to students with at least 30 hours of AP or CLEP credit, as one of the objectives of the FYS sequence is to provide all first-year college students at Mercer/Macon a common set of experiences.

2. All transfer students who are exempted from FYS 101 and FYS 102 must present or earn credit for two courses focusing on English Composition. Students who transfer in two courses of English Composition will have met the requirement in these blocks.

3. Students who do not present transfer credit for two courses of English Composition must pass ENG 108 (in lieu of FYS 101) and one of the following courses in lieu of FYS 102: ENG 233, 234, 235, 236, 237, 263, 264 or 265. The student would, in addition, need to select a Literature course in Block 4 for the Distributional Program, unless an acceptable course were transferred in.

Comment on Transfer Courses for General Education: Courses transferred in to Mercer which meet the educational philosophy of a block may be counted in that block, without having to be exactly equivalent to a course listed in the block.

A student transferring to the Stetson School of Business and Economics residential program with (1) at least five semester hours of science, including a laboratory experience, will be considered to have fulfilled the Natural and Physical
Sciences general education requirement, (2) less than five semester hours of laboratory science will be required to take SCI 105, or a laboratory science module or course comprising at least two semester hours, depending on whether the transferred course included a laboratory experience.

Mathematics and Computer Science (10 to 14 hours)

Students seeking the B.B.A. degree must successfully complete the following mathematics courses and one computer science course. Normally these courses should be completed by the end of the sophomore year, as the background they provide is essential for successful performance in many upper division business courses. All are prerequisites for one or more courses in the School.

- MAT 133. Precalculus (or Competency Exam exemption) (4 hours)
- MAT 141. Calculus for the Social Sciences (3 hours), or
- MAT 191. Calculus I (4 hours)
- MAT 226. Elementary Statistical Methods (3 hours), or
- MAT 320. Introduction to Probability and Mathematical Statistics (3 hours)
- CSC 125. Introduction to Computing (3 hours)

Business Core Curriculum (36 hours)

The Business Core Curriculum has been designed to insure that all students receiving the B.B.A. degree will share an important common body of knowledge. This program of study provides the foundation of thinking tools needed throughout a wide range of positions of authority in business and not-for-profit organizations.

- ACC 204, 205
- BUS 346
- BUS 349 or IDM 470
- BUS 342; or BUS 350 or ISE 402; or MGT 382 or ISE 370
- ECN 150, 151, and any one from ECN 301, 302, 303; or 353
- FIN 362
- MGT 363
- MKT 361
- MGT 498
- ECN 150, ECN 151, ACC 204 and ACC 205 should be completed by the end of the sophomore year.

Managed Academic Path to Success (At least 21 hours)

Program of Study

Each student must develop a Managed Academic Path to Success (MAPS) program of study with their academic advisor by the end of the sophomore year. The concept is that students are taken on a guided journey and discovery of themselves, their life aspirations, and an understanding of how these translate into a career path in business. Each MAPS requires a minimum of 21 semester hours, at least 3 of which are experiential. Courses which fulfill a General Education or a Business Core Curriculum requirement may not double-count on a MAP.
Each MAPS program of study must include:
MAP 201. Beginning the Journey (2 hours)
MAP 401. Making the Transition (1 hour)

Each MAPS program of study must include an experiential component involving a minimum of 3 hours credit. Students may elect an internship, an approved service activity, or a study abroad course. Within a minimum 21 hour program of study, no more than 3 semester hours of an experiential component may count toward a MAPS program of study.

Traditional Course Component: of the remaining 15 semester hours in a minimum 21 hour program of study, at least 12 must be taken in residence at Mercer University of which 9 must be taken in residence in the Stetson School of Business and Economics and from Business offerings. For the 6 semester hours which are not required to be taken in the Stetson School of Business and Economics, students may include courses from the College of Liberal Arts, the School of Engineering, the Tift College of Education, the College of Continuing and Professional Studies, the Southern School of Pharmacy (Atlanta), and the Georgia Baptist College of Nursing (Atlanta) which fit their lifetime learning goals. Courses transferred from other four year institutions of higher education may also be used on a MAP. If courses count on a major in any of these schools, they will count on a MAPS program of study, provided that they are numbered as a (Mercer equivalent) 200 or higher course.

Managed Academic Path to Success
Suggested Course Sequence

<table>
<thead>
<tr>
<th>Fall Freshman</th>
<th>Spring Freshman</th>
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<tbody>
<tr>
<td>FYS 101</td>
<td>FYS 102</td>
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<tr>
<td>First-Year Seminar</td>
<td>First-Year Seminar</td>
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<tr>
<td>ECN 150</td>
<td>ECN 151</td>
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<tr>
<td>Principles of Microeconomics</td>
<td>Principles of Macroeconomics</td>
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<tr>
<td>3 a</td>
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<td>MAP 101</td>
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<tr>
<td>The Freshman Bus Experience</td>
<td>General Education</td>
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<td>1</td>
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<tr>
<td>CSC 125</td>
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<td>Intro to Computing</td>
<td>General Education</td>
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<tr>
<td>3</td>
<td>3</td>
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<tr>
<td>MAT 133</td>
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<tr>
<td>Precalculus</td>
<td>General Education</td>
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<tr>
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<td>3</td>
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<tr>
<th>Fall Sophomore</th>
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<tbody>
<tr>
<td>ACC 204</td>
<td>ACC 205</td>
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<tr>
<td>Intro Financial Accounting</td>
<td>Intro Manager Accounting</td>
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<tr>
<td>MAT 226</td>
<td>SCI</td>
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<tr>
<td>Elementary Statistics</td>
<td>Lab Module</td>
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<td>SCI 105</td>
<td>FIN 362</td>
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<tr>
<td>Scientific Inquiry</td>
<td>Principles Finance</td>
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<tr>
<td>MGT 363</td>
<td>MKT 361</td>
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<tr>
<td>Principles of Management</td>
<td>Principles of Marketing</td>
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<tr>
<td>XXX</td>
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<tr>
<td>General Education</td>
<td>General Education</td>
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<td></td>
<td>MAP 201</td>
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<tr>
<td></td>
<td>Beginning Journey</td>
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### Fall Junior

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<tr>
<td>ECN XXX Economics Elective</td>
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<tr>
<td>BUS 350 Bus Quant Analysis</td>
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<tr>
<td>MAP #1 Course on MAP</td>
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<tr>
<td>BUS 346 Legal, Eth, Reg Env of Business I</td>
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<tr>
<td>XXX General Education</td>
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### Spring Junior

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<tr>
<td>MAP #3 Course on MAP</td>
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</tr>
<tr>
<td>MAP #4 Course on MAP</td>
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</tr>
<tr>
<td>BUS 349 Mgt Info Systems</td>
<td>3</td>
</tr>
<tr>
<td>XXX Elective</td>
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<tr>
<td>XXX Elective</td>
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<td>XXX Elective</td>
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### Fall Senior

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<td>MAP #4 Course on MAP</td>
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<tr>
<td>MAP #5 Course on MAP</td>
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<tr>
<td>BUS 349 Mgt Info Systems</td>
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<tr>
<td>XXX Elective</td>
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<td>XXX Elective</td>
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<tr>
<td>XXX Elective</td>
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### Spring Senior

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<td>MGT 498 Stratg Mgt &amp; Policy</td>
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<tr>
<td>MAP #6 Course on MAP</td>
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<td>XXX Elective</td>
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**Total**

<table>
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<th>Credits</th>
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<tbody>
<tr>
<td>128</td>
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### Notes:

- a. ECN 150 and 151 may be taken in reverse order, with approval of an advisor.
- b. ACC 204 may be taken in the freshman year by students who are calculus ready when they enter the University, or who earn a grade of C or higher in MAT 133 in the fall semester of their freshman year.
- c. MGT 363 and MKT 361 may be taken in reverse order, with approval of an advisor.
- d. Electives may be any course, but may also be included in the MAP.

### Minors

#### For Students Pursuing the B.B.A. Degree

Minors are not available for students pursuing the B.B.A. degree. B.B.A. degree seeking students should broaden their MAPS program of study to include courses in alternate disciplines.

#### For Students Not Pursuing the B.B.A. Degree

Minors for students not pursuing the B.B.A. degree are offered in Accounting, Business Administration, and Economics. A 2.0 grade point average is required to earn a minor. The University requires that at least six hours of Upper Division work in a minor be done in residence.

The requirements for a minor in accounting are: ACC 204, ACC 205 and three other accounting courses that should be selected in consultation with an Accounting faculty advisor. The following three courses are suggested: ACC 368, ACC 375, and ACC 377.

The requirements for a minor in business administration are: ECN 150 or ECN 151, ACC 204, MGT 363, MKT 361 and one other course selected from the curriculum of the School. The fifth course should be selected in consultation with a
The requirements for a minor in economics are: ECN 150, 151, MAT 226, or 320 and three other Economics courses that should be selected in consultation with an Economics faculty advisor. Courses used for a student’s major may not be used toward any of these minors. This double counting prohibition will not preclude a student from earning one of these minors under circumstances where their major requires that they broaden themselves by taking a depth area, a minor, or professional area electives over and above the courses required on their major.

COURSES OF INSTRUCTION

Courses indicated by (Atl) at the end of the description normally are offered only on the Cecil B. Day Campus in Atlanta. Courses offered in the evening program are listed in the Regional Academic Centers bulletin.

ACCOUNTING (ACC)

204. Introductory Financial Accounting (3 hours)
A study of the basic principles and concepts relating to the collection and summarization of accounting information, and the understanding, preparation, and use of the income statement, the balance sheet, and the statement of cash flows.

205. Introductory Managerial Accounting (3 hours)
Prerequisite: ACC 204.
An introductory study of the preparation and use of internal accounting information for the planning and controlling of company activities. Topics covered include internal budgeting, cost allocation, and capital budgeting.

368. Corporate Financial Reporting (3 hours)
Prerequisite: ACC 204 or the equivalent.
A critical examination of accounting procedures used in financial reporting practices of public enterprises with emphasis on the measurement of income and the quality of reported earnings. The course explores the content of the balance sheet, the income statement, the statement of cash flows, and important relationships among the statements that impact on liquidity, solvency, and profitability. (This course may not be counted toward a major in accounting.)

371. Intermediate Financial Accounting I (3 hours)
Prerequisites: ACC 204 and 205.
A study of the theory and principles underlying financial statements. Concise review of the basic principles and concepts relating to the collection and summarization of accounting information and the preparation of the income statement and the balance sheet. Basic financial statement analysis. Study in depth of theory and issues related to recognition and measurement of cash, receivables, inventories and revenue.

372. Intermediate Financial Accounting II (3 hours)
Prerequisite: ACC 371.
A continuation of ACC 371. Study in depth of theory and issues related to accounting and the time value of money, and recognition and measurement of property, plant and equipment, depreciation, intangible assets, current liabilities,
long-term liabilities, and stockholders’ equity. Preparation of the statement of cash flows.

**373. Intermediate Financial Accounting III** (3 hours)
Prerequisite: ACC 372.
A continuation of ACC 372. Study in depth of theory and issues related to accounting for earnings per share, investments, income taxes, pensions and leases, accounting changes and error analysis, full disclosure, and constant dollar and current cost accounting.

**375. Tax Accounting** (3 hours)
Prerequisites: ACC 204 and 205.
A study of the basic principles and concepts of federal income taxation of business entities (sole proprietorships, partnerships and limited liability entities, C corporations and S corporations). Brief coverage of federal taxation of individuals.

**377. Cost Accounting** (3 hours)
Prerequisites: ACC 204 and 205.
A study of the utilization of cost data in planning and controlling activities. Internal and external data are woven into the planning models. Specific areas are: process, job order, standard, functional relationships, and budgeting.

**411. Governmental and Not-For-Profit Accounting** (3 hours)
Prerequisites: ACC 204 and 205.
A study of the principles of fund accounting for and financial reporting by not-for-profit and governmental entities.

**431. Auditing** (3 hours)
Prerequisites: ACC 371; MAT 226 or 320.
Corequisite: ACC 372 or consent of the instructor.
A study of objectives, standards, and procedures involved in examining and reporting on financial statements of business organizations by independent auditors.

**436. Advanced Accounting** (3 hours)
Prerequisites: ACC 371, 372 and 373, or consent of the instructor.
A study of the theory and principles of accounting for business combinations, the preparation of consolidated financial statements, branch accounting, accounting for partnerships, accounting for international operations, and accounting for governmental and nonprofit organizations.

**477. Special Topics in Accounting (Subtitle)** (1-3 hours)
Prerequisites: Junior or senior standing and the consent of the instructor.
An intensive study of some significant topic in accounting not otherwise covered in the School’s course offering. Topics will be chosen in consultation with students who register for the course.

**478. Research in Accounting (Subtitle)** (1-3 hours)
Prerequisites: Junior or senior standing and the consent of the instructor.
A research-oriented course focusing on an important topic in accounting not otherwise covered in the School's offerings. The course features student research, independent study, and discussion.

**494. Honors Thesis** (1 hour)
Prerequisite: Admission to the Honors Program.
Individual research leading to the completion of an honors thesis. Students admitted into the Honors Program register for one credit hour in each of three successive semesters (including summer). Only grades of satisfactory or unsatisfactory will be assigned.

**BUSINESS (BUS)**

**101. Freshman Leadership Experience I** (2 hours)
This course is offered to 24 incoming freshmen who apply and are selected to participate in this special living/learning program. Participants will: (1) gain a deeper understanding of the concept of leadership; (2) develop a greater awareness of their personal leadership style; (3) become involved in campus life and community service; (4) interact with faculty, staff, and student leaders; and (5) develop a personal leadership philosophy. (Does not count toward any Business major or minor.)

**102. Student Organization Leadership** (2 hours)
This course is particularly relevant for leaders of student organizations. Participants will: (1) increase their awareness and understanding of the importance of leadership issues; (2) develop skills to enhance their ability to effectively lead organizations; and (3) study traditional and current theories of leadership. (Does not count toward any Business major or minor.)

**275. Students in Free Enterprise** (2 hours)
Prerequisites: ECN 150 and 151 (or permission of instructor).
Under the direction of the instructors, students create, research, prepare and present projects that teach how the private ownership, free market economic system works, as well as how individual businesses start up and operate. Target groups include school children, college students, television and radio audiences, newspaper readers, Internet users, civic and professional organizations, business owners and potential owners.

**276. Students in Free Market Economics** (2 hours)
Prerequisites: ECN 150 and 151 (or permission of instructor).
A continuation of BUS 275. Under the direction of the instructors, students create, research, prepare and present projects that teach how the private ownership, free market economic system works, as well as how individual businesses start up and operate. Target groups include school children, college students, television and radio audiences, newspaper readers, Internet users, civic and professional organizations, business owners and potential owners.

**281. Business Communication and Report Writing** (3 hours)
Prerequisites: FYS 101, 102; or equivalent English composition.
Intensive instruction and practice in the organization, content, and style of business letters and reports. Letters of inquiry, refusal, persuasion, credit and collection as well as job application letters with resumes, sales letters, and basic forms of business reports are studied in the course. (Students can receive credit for either BUS 270, in Extended Education, or BUS 281. Neither course can count as one of the minimum three business courses on a MAP.)

**318. Internship in Business** (1 hour per term)
Prerequisites: Sophomore status, minimum 2.5 GPA and 9 or more credit hours in business courses.
A practical work experience with a business or similar entity related to a student’s career interest. Arrangements between the University and the entity providing the work experience will be coordinated by the Office of Career Services, in the Division of Student Life. Academic credit will be granted only upon review and approval by the Dean, Associate Dean or a Business Faculty member of appropriate written documentation prepared and presented by the student to support the educational element of the experience. Does not count toward a Managed Academic Path to Success program of study. May be repeated once. S/U graded.

342. Advanced Statistics for Business and Economics (3 hours)
Prerequisites: ECN 150, 151, MAT 141 (or 191 and 191L/EGR 191L), MAT 226, (or 320), and junior status (or permission of instructor).
This course is designed to fill the need for a course in business and economic statistics, and aims to combine the development of technique with applications to real business and economic analysis. The course assumes a working knowledge of introductory statistics, and attempts to work carefully with more advanced statistical and econometric techniques. This course emphasizes applied fundamentals of regression analysis and other statistical techniques rather then theoretical detail.

346. The Legal, Ethical and Regulatory Environment of Business I (3 hours)
Prerequisite: Sophomore standing.
This course is an introduction to law and the legal system. Topics discussed include the court system, constitutional law, administrative law, contract law, torts, product liability, criminal law, business organizations, agency, and an introduction to the governmental regulations of business. The ethical and social responsibilities of business will be emphasized.

347. The Legal, Ethical and Regulatory Environment of Business II (3 hours)
Prerequisite: BUS 346.
This course is a continuation of the discussion of a variety of legal topics. Particular emphasis is placed on those areas that an accounting major would find on the law part of the CPA examination: contracts, the Uniform Commercial Code, sales, commercial paper, debtor-creditor relationships and bankruptcy, business organizations, government regulation of business, and real and personal property.

349. Management Information Systems (3 hours)
Prerequisite: CSC 125 or INSY 115.
A study of management information systems (MIS) and the impact that MIS has on management decision making. The emphasis of this course is on data collection techniques, information flow within the organization, techniques of analysis and design and implementation of a system.

350. Business Quantitative Analysis (3 hours)
Prerequisites: ECN 150; MAT 133 and 226 (or 320 or BUS/MATH 220). MATH 220.
Emphasis will be placed on the practical application of quantitative analysis used in business. Specific topics to be covered include: probability, forecasting, linear regression, linear programming, critical path method, program evaluation and review techniques, decision theory, and related techniques.
413. Business Studies Abroad (Summer)  
(1 – 6 hours)
Prerequisites: ECN 441, FIN 451 and MGT/MKT 472; or consent of the instructor. Travel to a foreign country would be required. This involves visitation to corporations, factories, banks and government organizations. Students are given a reading list and a basic book on international business as early as three months in advance and are required to attend lectures on different topics prior to the trip. A research topic will be chosen based on the student’s interest or based on the itinerary presented by the coordinator of the studies abroad. Students will present their research to the class upon return to Atlanta/Macon. Usually faculty are invited to attend the presentations. Direct costs such as airfare, meals and lodging are added to normal tuition charges.

477. Special Topics in Business (Subtitle)  
(1-3 hours)
Prerequisites: Junior or senior standing and the consent of the instructor. An intensive study of some significant topic in business not otherwise covered in the School's course offering. Topics will be chosen in consultation with students who register for the course.

478. Research in Business (Subtitle)  
(1-3 hours)
Prerequisites: Junior or senior standing and the consent of the instructor. A research-oriented course focusing on an important topic in business not otherwise covered in the School's offerings. The course features student research, independent study, and discussion.

491. Seminar in Business and Economics  
(3 hours)
Prerequisite: Permission of instructor. A study of selected topics in business and economics. (Atl)

494. Honors Thesis  
(1 hour)
Prerequisite: Admission to the Honors Program. Individual research leading to the completion of an honors thesis. Students admitted into the Honors Program register for one credit hour in each of three successive semesters (including summer). Only grades of satisfactory or unsatisfactory will be assigned.

ECONOMICS (ECN)

150. Principles of Microeconomics  
(3 hours)
Prerequisite: Mathematics competency or completion of a college mathematics course. A study of the basic tools of economic analysis and principles necessary to appreciate economic relationships, business behavior and consumer behavior. Special emphasis will be given to the areas of supply and demand, marginal analysis, and the theory of the firm.

151. Principles of Macroeconomics  
(3 hours)
Prerequisite: Mathematics competency or completion of a college mathematics course. The study and analysis of national income accounting, income determination theory, money and monetary policy, fiscal policy, international trade, and the theory of economic growth. Special attention will be given to current economic conditions and trends.
301. Money, Credit, and Banking (3 hours)
(Cross listed with FIN 301)
Prerequisites: ECN 150, 151, and junior status (or consent of instructor).
A functional study of monetary, banking, and credit structures, including a critical examination of monetary theory and policy recommendations.

302. Intermediate Microeconomic Theory (3 hours)
Prerequisites: ECN 150, 151, and junior status (or consent of instructor).
A study of price and distribution theory relevant to households, firms and industries in perfect and imperfect competition. Theories of factor prices and general equilibrium are also examined.

303. Intermediate Macroeconomic Theory (3 hours)
Prerequisites: ECN 150, 151, and junior status (or consent of instructor).
A study of the forces determining the level of income, employment, and prices. Monetary theory and theory of economic fluctuations are reviewed, and public policies dealing with level of income and with aggregate economic welfare are examined.

353. Introduction to Econometrics (3 hours)
Prerequisites: ECN 150, 151, MAT 141 (or 191), 226 (or 320), and junior status (or consent of instructor).
A study of the methods of empirically verifying economic theory. Statistical inference applied to economic models, both macro and micro. Estimation of single and multiple equation models. A partial listing of topics covered includes: stochastic equations, residuals, parameter estimation via least squares and other methods, the coefficient of determination, multicollinearity, serial correlation, the identification problem, and estimation of simultaneous equation macro models of the U.S. economy. (Mac)

372. American Economic History (3 hours)
(Cross listed with HIS 372)
Prerequisites: ECN 150, 151, HIS 165, and junior standing.
A study of the institutional and structural factors which contributed to the development of the American economy. (Mac)

432. Urban and Regional Economics (3 hours)
Prerequisites: ECN 150, 151, and one ECN course numbered 300 and higher; or permission of instructor.
A study of poverty, housing, land use, transportation, and public services, with special references to social problems arising from the uneven distribution and immobility of resources. (Mac)

441. International Economics (3 hours)
Prerequisites: ECN 150, 151, and one ECN course numbered 300 and higher; or permission of instructor.
A study of the theory and mechanisms of international trade, and the international monetary mechanism. Barriers to the movement of goods and services and recent developments in the international organizations aimed at relaxing restrictions are also studied. Credit may not be earned in both ECN 441 and ECN/FIN 444. (Mac)

443. Labor Economics (3 hours)
Prerequisites: ECN 150, 151, and one ECN course numbered 300 and higher; or permission of instructor.
A study of the major labor problems of the United States and the social and economic policies affecting the labor movement. The problems of labor organization and trade unionism. Recent and pending legislation in the states and nation. (Mac)

444. International Economics and Finance (3 hours)
(Cross listed with FIN 444)
Prerequisites: ECN 150, 151, and one ECN course numbered 300 and higher; or permission of instructor.
The study of foreign exchange, international money markets and institutions, balance of payments problems, capital movements, foreign investment problems, and objectives of international monetary policy. Credit for this course precludes also earning credit for either FIN 451 (International Finance) or ECN 441 (International Economics). (Atl)

445. Industrial Organization (3 hours)
Prerequisites: ECN 150, 151, and one ECN course numbered 300 and higher; or permission of instructor.
A study of industrial organization and government regulation of business enterprise; market structures, conduct, and performance; antitrust. (Mac)

448. Seminar in Economic Growth (3 hours)
Prerequisites: ECN 150, 151, and one ECN course numbered 300 and higher; or permission of instructor.
A seminar in economic growth. Areas of emphasis are as follows: nature of growth; what is not growth; importance of growth; the physical environment issue; growth over time and among nations; sources of growth; theories of growth and supporting empirical evidence; interaction of growth with economic stability and income distribution; and institutional, monetary, and fiscal policies related to growth. (Mac)

452. Environmental Economics (3 hours)
(Same as ENV 452)
Prerequisites: ECN 150, 151, and one ECN course numbered 300 and higher; or permission of instructor.
An examination of the interrelationship which exists between the physical environment and the economic system. Models of general equilibrium analysis, welfare economics, and property rights are developed; these are supplemented by readings from scholarly journals. Emphasis is placed upon the issue of free markets’ ability to allocate scarce environmental resources efficiently (including intertemporally) among competing uses. (Mac)

477. Special Topics in Economics (Subtitle) (1-3 hours)
Prerequisites: ECN 150, 151, one ECN course numbered 300 and higher; or permission of instructor.
An intensive study of some significant topic in economics not otherwise covered in the School’s course offering. Topics will be chosen in consultation with students who register for the course.

478. Research in Economics (Subtitle) (1-3 hours)
Prerequisites: ECN 150, 151, one ECN course numbered 300 and higher; or permission of instructor.
A research-oriented course focusing on an important topic in economics not oth-
The course features student research, independent study, and discussion.

**494. Honors Thesis**

(1 hour)

Prerequisite: Admission to the Honors Program.

Individual research leading to the completion of an honors thesis. Students admitted into the Honors Program register for one credit hour in each of three successive semesters (including summer). Only grades of satisfactory or unsatisfactory will be assigned.

**FINANCE (FIN)**

**301. Money, Credit, and Banking**

(3 hours)

(Cross listed with ECN 301)

Prerequisites: ECN 150, 151, and junior status (or consent of instructor).

A functional study of monetary, banking, and credit structures, including a critical examination of monetary theory and policy recommendations.

**362. Principles of Finance**

(3 hours)

Prerequisites: ECN 150; ACC 204; and MAT 133.

The course is taught from the viewpoint of a corporate financial manager trying to maximize stockholder wealth. Topics covered include corporate taxation, time value of money, risk and rates of return, funds flow, working capital management, capital budgeting, cost of capital, and dividend policy. Lecture and problems.

**404. Investments**

(3 hours)

Prerequisite: FIN 362; and MAT 226 (or 320) or BUS 220.

Purpose of the course is to evaluate the various financial investments that are available to the investor and to emphasize the risk-return trade off. Topics covered include stock and bond analysis, securities markets, futures contracts, option contracts, efficient market hypothesis, fundamental analysis, and technical analysis. Lecture and problems.

**408. Financial Analysis**

(3 hours)

Prerequisite: FIN 362; and MAT 226 (or 320) or BUS 220.

An in-depth analysis in the application of financial tools and concepts to the problems of large corporations; emphasis on the process of decision-making as it applies to the organization’s requirements for funds and its management of those funds; extensive case analysis required.

**444. International Economics and Finance**

(3 hours)

(Cross listed with ECN 444)

Prerequisites: ECN 150, 151, and one ECN course numbered 300 and higher; or permission of instructor.

The study of foreign exchange, international money markets and institutions, balance of payments problems, capital movements, foreign investment problems, and objectives of international monetary policy. Credit for this course precludes also earning credit for either FIN 451 (International Finance) or ECN 441 (International Economics). (Atl)

**451. International Finance**

(3 hours)

Prerequisites: ECN 150 and 151; FIN 362; and MAT 226 (or 320) or BUS 220.

This course will introduce students to the principles of international finance. Some of the fundamental concepts of corporate finance, as learned in the first finance
course, will be applied to a global setting. Moreover, students will be exposed to the mechanics of the international monetary system and foreign exchange rates. Credit may not be earned in both FIN 451 and ECN/FIN 444.

461. Security Analysis (3 hours)
Prerequisites: FIN 362; MAT 141 (or 191), and 226 (or 320) or BUS 220.
Topics covered are selected from: the fundamental common stock selection process, fundamental analysis, cash flow, earnings quality, mergers and buyouts, security valuation, financial forecasting, the efficient market hypothesis, and linear programming methods of portfolio optimization.

463. Intermediate Finance (3 hours)
Prerequisite: FIN 362; and MAT 226 (or 320) or BUS 220.
A continuation of FIN 362. A study of long-term financing and capital structure decisions, and short-term financial planning and working capital management. Additional topics include mergers and acquisitions and international finance.

465. Financial Institutions (3 hours)
Prerequisite: FIN 362.
The course will focus on the role of various financial intermediaries and their role in channeling savings into productive investment. Emphasis will be placed on the study of such institutions as banks, savings and loan associations, credit unions, and insurance companies.

471. Mergers and Acquisitions (3 hours)
Prerequisites: ECN 150; FIN 362; ECN 302 (recommended).
This course will provide an introduction and an overview of mergers and acquisitions. In today’s aggressive and strategic corporate policy-making this course would not only provide a theoretical framework to prospective business leaders but also enable them to cope with some of the real problems of mergers and acquisitions with a greater degree of confidence. Some of the topics proposed to be covered in this course include: motives and determination of mergers; merger tactics; leveraged buyouts (LBOs); divestitures; safeguards against corporate raiders and junk bonds; and the various theories of mergers.

477. Special Topics in Finance (Subtitle) (1-3 hours)
Prerequisites: Junior or senior standing and the consent of the instructor.
An intensive study of some significant topic in finance not otherwise covered in the School’s course offering. Topics will be chosen in consultation with students who register for the course.

478. Research in Finance (Subtitle) (1-3 hours)
Prerequisites: Junior or senior standing and the consent of the instructor.
A research-oriented course focusing on an important topic in finance not otherwise covered in the School’s offerings. The course features student research, independent study, and discussion.

494. Honors Thesis (1 hour)
Prerequisite: Admission to the Honors Program.
Individual research leading to the completion of an honors thesis. Students admitted into the Honors Program register for one credit hour in each of three successive semesters (including summer). Only grades of satisfactory or unsatisfactory will be assigned.
101. The Freshman Business Experience (1 hour)
Prerequisite: Open only to first semester freshmen in SSBE.
The goal of this course is to prepare business students for the journey ahead. It introduces students to the structure of higher education and specific Mercer policies. Issues such as successful study skills, cultural diversity, critical thinking, ethics, personal relationships, health, and safety are introduced and discussed. It will also orient students to MAPS and acquaint them with the resources in SSBE. Students are evaluated on a letter graded basis. May not be repeated.

301. Beginning the Journey (2 hours)
Prerequisites: ACC 204, and ECN 150 or 151.
Prerequisites or co-requisites: at least two of FIN 362, MGT 363, and MKT 361; or junior standing.
This course develops a student’s awareness of himself or herself and business. This is accomplished through assessment vehicles, business resource guides and interaction with business professionals. In addition to the development of short and long term life goals, this course begins building the foundations to the Managed Academic Path to Success program of study. This course, limited to business students, is generally taken during the sophomore year.

305. Gaining Experience (3 hours)
Prerequisites: MAP 301, junior standing, and 9 or more credit hours in business.
This course is designed to support the student as he or she gains real world exposure by means of reading, discussion, and practical work experience. The student will be involved in an internship or co-op directly related to his or her current or postgraduate expected employment, thus creating opportunities for examining the fit between personal gifts, desires, and expectations with the realities of the workplace. Students will examine ways in which one’s work may become a meaningful experience. It is recommended that this course be taken in the second semester of the junior year or the first semester of the senior year.

401. Making the Transition (1 hour)
Prerequisite: MAP 301 and junior standing.
This course transitions the student from academia to business. Resume preparation, job search, and the school-to-career (or school-to-graduate school) transition are general issues that will be addressed. This course, limited to business students, is taken during the junior or senior year.

MANAGEMENT (MGT)

250. CEO Leadership Series (1 hour)
Lectures by and meetings with chief executive officers of local business and not-for-profit entities. Speakers will vary from year to year. Written report required. Does not count toward any major or minor. Letter graded.

251. Quality and Leadership (1 hour)
Same as MGT 250, with different speakers. Does not count toward any major or minor. Letter graded.

363. Principles of Management (3 hours)
Prerequisite: Sophomore standing.
Coordinating or organizational activities through planning, organizing, staffing, executing, and controlling functions. Behavior theory, delegation, communication, decision-making; lecture, discussion and cases.

382. Production/Operations Management (3 hours)
Prerequisites: MGT 363, MAT 133 or MATH 130, and BUS 220 or MAT 226 (or 320).
In this course, students will analyze production and service operation systems and their relationship with all other functions and activities in the organization. Deterministic and probabilistic models will be used to support decisions making.

422. Business and Society (3 hours)
Prerequisite: MGT 363.
A study of the issues, philosophies, and roles which face business in American society. Topics covered include ethics, personal conscience, values, advertising, competition, ecology, social change, employment practices, product and occupational safety, job satisfaction, and government policy. The topics are related to management styles, principles, and practices.

423. Organizational Behavior (3 hours)
Prerequisite: MGT 363.
A study of human behavior in formal organizations. Specific topics covered include: variations in individual behavior, perception, motivation and job satisfaction, job design, group and intergroup dynamics, leadership, communications processes, conflict, organizational culture, stress, and organization development.

424. Organization Theory (3 hours)
Prerequisite: MGT 363.
A study of formal organizations as social instruments. Lectures, Discussion, and cases dealing with business organizations as well as “not-for-profit” organizations. Topics covered include: organization structure, effects of structure, goals and effectiveness, size, growth, and the effects of environment and technology on organizational processes.

427. Entrepreneurship (3 hours)
Prerequisites: MGT 363; MKT 361.
The entrepreneur is someone who undertakes a venture, organizes it, raises capital to finance it, and assumes all or a major portion of the risk. This course typically covers profiles of entrepreneurs, means of going into business, venture opportunities, and the financial aspects of becoming an entrepreneur. Extensive case studies and projects are required. Each student also develops a business plan.

429. Human Resource Management (3 hours)
Prerequisite: MGT 363; MGT 423 recommended.
A study of the modern personnel function. The assumption will be made that the personnel/human resource department has the responsibility of developing the human resources of organizations. Topics covered include: recruitment, employee selection, training, performance appraisal, wage and salary administration, employee benefits, safety management and collective bargaining.

433. Labor-Management Relations (3 hours)
Prerequisite: MGT 363.
Examination of the historical development and current status of collective bar-
gaining; identification of the role of the three actors (labor, management and government) in the practice of collective bargaining; study of the impact of recent institutional, legislative, and economic developments on labor-management relations. (Atl)

434. Management Evolution and Trends  (3 hours)
Prerequisite: MGT 363.
A chronological development of the major contributions to management thought and tenets. Special attention is given to making the student aware of the reasons most management practices and special techniques are utilized. A wide range of readings is used to expose the student to contributions of other sciences and disciplines to the field of management. (Atl)

450. Total Quality Management  (3 hours)
Prerequisite: MGT 363.
This course explores the principles, tools, and issues relating to total quality management. Students learn the foundations of total quality based on the teachings of Deming, Juran, and others. The basic tools and techniques for quality improvement as well as quality design are explored as well as the principles of customer focus, teamwork, empowerment, leadership, and incorporating quality into the strategic process as a competitive tool. A comprehensive project enables the student to apply the concepts learned in a real setting. The goal is to study and improve a process within an organization to increase quality, productivity, customer satisfaction, and reduce costs.

472. International Management and Marketing  (3 hours)
(Cross listed with MKT 472)
Prerequisites: MGT 363 and MKT 361.
Study at an advanced level of the major marketing and management issues and opportunities facing business managers in an international setting. Primary emphasis is on the study of developing and adjusting strategies, in light of home and host countries' incentives and restrictions, to meet corporate objectives. Discussions, cases, current literature.

477. Special Topics in Management (Subtitle)  (1-3 hours)
Prerequisites: Junior or senior standing and the consent of the instructor.
An intensive study of some significant topic in management not otherwise covered in the School's course offerings. Topics will be chosen in consultation with students who register for the course.

478. Research in Management (Subtitle)  (1-3 hours)
Prerequisites: Junior or senior standing and the consent of the instructor.
A research-oriented course focusing on an important topic in management not otherwise covered in the School's offerings. The course features student research, independent study, and discussions.

494. Honors Thesis  (1 hour)
Prerequisite: Admission to the Honors Program.
Individual research leading to the completion of an honors thesis. Students admitted into the Honors Program register for one credit hour in each of three successive semesters (including summer). Only grades of satisfactory or unsatisfactory will be assigned.
498. Strategic Management and Business Policy (3 hours)
Prerequisites: ACC 204, 205; BUS 346; ECN 150, 151; FIN 362; MGT 363; MKT 361; and Senior Standing.
The problems of business organizations from the point of view of the chief executive officer. Written analysis of in-depth cases that require the student to view decisions in terms of their impact on the total organization. Oral discussion and conceptual skills are also stressed.

499. Management Simulation (3 hours)
Prerequisite: Completion of the entire business core.
Management simulation through the use of a computer game. Students are divided into teams for decision-making purposes and compete with other teams in the playing of the game. Students learn to use quantitative tools to make management decisions in a simulated business environment. Specific tools discussed are: (1) linear regression, (2) EOQ models; (3) linear programming; and (4) capital budgeting. Discussion of Break-even Analysis and Critical Path and PERT Programming is also included. Ordinarily taken late in the senior year. (Atl)

MARKETING (MKT)

361. Principles of Marketing (3 hours)
Prerequisite: Sophomore standing.
Role of the marketing function in planning and implementing objectives of the firm. Consumer markets, industrial markets, channels of distribution, product and pricing policies, sales forecasting, promotion, and control.

415. Marketing Research (3 hours)
Prerequisites: MKT 361; MAT 226 (or 320).
A study of the methods and procedures designed to provide management with information on which decisions are made; the gathering and analysis of data in business and public organizations are primary emphasis; topics include the use of secondary data and appropriate sampling and research methodologies for collecting primary data.

417. Advertising (3 hours)
Prerequisite: MKT 361 or consent of instructor.
The course surveys the nature, procedure, practices and results of advertising from a marketing perspective. It focuses on the formulation of advertising strategy and includes a discussion of the adjustments required for global advertising, the use of research to develop and evaluate advertising, creative strategy, and media planning and selection. Economic, social, and ethical aspects of advertising are also discussed.

420. Professional Selling (3 hours)
Prerequisite: MKT 361.
This course helps students develop an understanding of the personal selling process and its role within the marketing and promotional mix of the firm. Basic sales concepts that are used by organizations to develop long-term partnerships with customers are examined. Personal selling skills are enhanced through discussions, role playing and sales presentations.

435. Marketing Promotion and Communication (3 hours)
Prerequisite: MKT 361.
Integration course for students interested in promotion and marketing communication. Designed to familiarize students with the tools necessary for the development, implementation, and management of promotional programs. The course takes an integrated marketing communication perspective and emphasizes management and coordination of the elements of the promotional mix, namely: implicit promotion, advertising, personal selling, publicity, and sales promotion. The course includes both theoretical and practical aspects of effective marketing communications as well as economic, social, and ethical aspects of promotion.

442. Consumer Behavior (3 hours)
Prerequisite: MKT 361.
Includes study of consumer motives, attitudes, expectations, and behavior and their relationship to developing effective marketing programs.

472. International Management and Marketing (3 hours)
(Cross listed with MGT 472)
Prerequisites: MGT 363 and MKT 361.
Study at an advanced level of the major marketing and management issues and opportunities facing business managers in an international setting. Primary emphasis is on the study of developing and adjusting strategies, in light of home and host countries’ incentives and restrictions, to meet corporate objectives. Discussions, cases, current literature.

475. Marketing Management (3 hours)
Prerequisite: MKT 361 and 415; MGT 363; MAT 141 (or 191 and 191L/EGR 191L) and 226 (or 320); and Senior standing.
Study at an advanced level of the major issues and problem areas facing marketing executives; emphasis at the policy-setting level; public and non-profit organizations will be included; strong consideration of the consumer, legal, economic, and political environments and their impact on decision-making; in-depth cases, discussion, and lectures.

477. Special Topics in Marketing (Subtitle) (1-3 hours)
Prerequisites: Junior or senior standing and the consent of the instructor.
An intensive study of some significant topic in marketing not otherwise covered in the School’s course offerings. Topics will be chosen in consultation with students who register for the course.

478. Research in Marketing (Subtitle) (1-3 hours)
Prerequisites: Junior or senior standing and the consent of the instructor.
A research-oriented course focusing on an important topic in marketing not otherwise covered in the School’s offerings. The course features student research. Independent study, and discussion.

494. Honors Thesis (1 hour)
Prerequisite: Admission to the Honors Program.
Individual research leading to the completion of an honors thesis. Students admitted into the Honors Program register for one credit hour in each of three successive semesters (including summer). Only grades of satisfactory or unsatisfactory will be assigned.
The School of Engineering

M. Dayne Aldridge, Sc.D., P.E., Dean/Professor
Michael S. Leonard, Ph.D., P.E., Senior Associate Dean
Guerry C. Backer, Ph.D., P.E., Associate Dean
Andre J. Butler, Joan M. Burtner, Susan Codone, Donald U. Ekong, Hodge Jenkins, Jack Mahaney, and Scott Schultz, Assistant Professors

An engineer takes the discoveries of the scientist, the tools of the mathematician, and the imagination of the inventor and transforms them into goods, services, and information to satisfy human needs. The purpose of Mercer University’s School of Engineering is to educate a student who is prepared to be a practicing engineer, one who can responsibly contribute to a global society that is becoming ever more dependent on technology.

The engineering program of study includes a solid foundation in mathematics and sciences along with a broad range of courses in engineering topics. The program culminates in engineering design courses in which a student explores solutions to recognized needs as a member of a team, since so much of modern engineering is a team effort. Engineering courses place emphasis on the written and spoken word; enabling graduates to effectively communicate their ideas to both technical and non-technical audiences. Because the computer is such an essential tool for analysis, the courses integrate computer methods of problem-solving. Within the engineering curriculum is the rich program of liberal arts studies in global awareness, the humanities and social sciences which draw on Mercer University’s distinguished Judaeo-Christian ethical value structure. All of this contributes to the development of a practicing engineer who is a responsible contributor to the global society.

While the focus of the engineering school is to educate engineers, its graduates may enter many fields of graduate study, especially those requiring the disciplined problem solving methods developed in the undergraduate engineering curriculum. Mercer School of Engineering graduates have entered professional graduate programs in medicine, law, and business, as well as graduate engineering programs. The Mercer Bachelor of Science in Engineering (BSE) program is accredited by the Engineering Accreditation Commission of ABET, Inc. The Bachelor of Science degree in Industrial Management is accredited by the Applied Science Accreditation Commission of ABET, Inc.

In addition to more conventional specializations which lead to a Bachelor of Science in Engineering, the School of Engineering offers Bachelor of Science (BS) programs in industrial management, and technical communication. The industrial management program is accredited by the Applied Science Accreditation Commission of ABET. These programs are intended to provide a technical, scientific, and analytical foundation so the graduate can pursue engineering-related careers that require some engineering-like expertise. The pro-
grams are a mutual effort between the School of Engineering, the College of Liberal Arts, and the Stetson School of Business.

The faculty within the engineering school is dedicated to staying abreast of the latest developments and conveying that current practice to the students in a supportive environment. Each student is encouraged and expected to draw on faculty assistance for knowledge, motivation, value clarification, and transition to the world of engineering.

**Mercer University General Education**

The five undergraduate schools and colleges of Mercer University are clearly distinct. The autonomy and traditions of each is respected. Although each school is unique, all have identified goals, objectives, and outcomes that they share and that are reflective of a Mercer education. The objectives and specific outcomes, related to each major goal, do not constitute an exhaustive list but rather a summary of the central, intersecting objectives and outcomes.

Mercer University is dedicated to the ideal of educating the whole person and providing a foundation that can be described by the Greek term “Paideia”. Paideia is consistent with the founding vision of Jesse Mercer as he sought to encourage learning and culture for both clergy and laity. Teaching, character development, service and leadership, classical education, and the nurturing of a prevailing culture are all instrumental. Mercer’s aim is to prepare all students to contribute to society through a sharing of their knowledge, skills, and character.

Through the general education curriculum Mercer University graduates will be able to:

A. **Reason effectively**
B. **Demonstrate broad and deep knowledge**
C. **Demonstrate habits of free inquiry**
D. **Demonstrate an understanding of themselves in light of the values and traditions upon which the University was founded.**

From these four goals flow the intended educational outcomes for general education at Mercer University:

A.
1. Communicate clearly, responsibly, and with integrity in written and oral forms
2. Master at least the basic principles of mathematical and scientific reasoning
3. Identify, access, and evaluate information and materials as needed for personal, academic, and professional purposes

B.
4. Acquire foundational knowledge important to becoming an informed person and/or for the major
5. Relate theory, principles, and content from one discipline to another
6. Demonstrate familiarity with cultures and traditions other than one’s own

C.
7. Work as part of a team/group, to learn and teach cooperatively, to develop an appreciation of individual differences, and to assess one’s own and other’s roles in a working group
8. Consider viewpoints other than one's own, including viewpoints associated with other cultures and traditions
9. Commit to live as an engaged and informed citizen

D.
10. Reflect on one's life and learning experience
11. Develop a respect for intellectual and religious freedom

National Engineering Advisory Board

The National Engineering Advisory Board, established in 1986, supports the School of Engineering in the offering of high-quality engineering education at the undergraduate and graduate levels; the offering of research opportunities appropriate to the needs of the School, the University, industry and society in general; promoting faculty development as a means to achieve national prominence as a quality educational institution; obtaining financial support from corporate and other sources throughout the nation; and serving the educational, technical, and consulting needs of local industry.

Members of the Board include: Chairman: Mr. L. Donald LaTorre, L & G Management Consultants; Members: Mr. Barry Abramson, Servidyne Systems, Inc.; Mr. James Bond, Public Service Telephone Co.; Mr. Peter Bryant, Mercer Engineering Research Center; Mr. William J. Buda, Brown and Williamson Tobacco Corporation; The Honorable Saxby Chambliss, House of Representatives, Eighth District; Mr. Robert V. Dumke, Siemens Medical Systems Company; Mr. Eugene Dunwody, Dunwody, Beeland, Azar, Walsh, Matthews Architects, Incorporated; Mr. A. V. Elliott, Jr., The Elliott Machine Shop, Incorporated; Mr. Ernest Gay, Imerys Pigments and Additives Group; Mr. Arthur L. Grady, Northrop Grumman Corporation; Mr. Erwin Grau, II, Raytheon Systems Company; Mr. Robert Halamandaris, Litton Industries, Incorporated; Mr. Tom Hamby, BellSouth; Mr. Robert H. Haubein, Southern Company Generation; Mr. Jim Hofstetter, Great Dane Trailers; The Honorable George Hooks, Senator, State of Georgia-District 14; Mr. Obie B. Jones, The Boeing Company; Mr. John Krawczuk, Condor Pacific Industries; Mr. Melvin Kruger, L. E. Schwartz & Son, Incorporated; Mr. Curtis Martin, Englehard Corporation; Mr. William J. McKenna, Vought Aircraft Industries; Dr. Dan E. Nale, Gulfstream Aerospace Corporation; a Mr. John Rowe, Matsushita Battery Industrial Corporation of America; Mrs. Suzanne H. Saunders, Total System Services, Incorporated; Mr. Chris R. Sheridan, Jr.; Chris R. Sheridan and Company; Dr. Jerry Sills, Lockheed Martin Tactical Aircraft Systems; Ms. Lori Skees, Ernest & Young; Mr. Perry Tanner, Scientific-Atlanta; Mr. Joe E. Timberlake, III, JET Foundation, Incorporated; and Mr. Tom Wilkason, Raytheon Systems Company; Mr. Wayne Williams, Vought Aircraft Industries.

Mercer Engineering Research Center

The Mercer Engineering Research Center, established by Mercer University in 1987, is closely affiliated with the School of Engineering with the mutual benefit of the two units through the conduct of research and development activities. The Mercer Engineering Research Center maintains a staff of research scientists, engineers, analysts and support personnel to conduct fundamental and applied research and development in engineering. The center provides advanced engineering and computational services, and disseminates the results through prod-
ucts and services delivered to the customer, publications, training courses and conferences. These activities are conducted with support and sponsorship of the federal government (civilian and military agencies), state and local governments and private, commercial, or philanthropic organizations and institutions. They include design, analysis, testing and other services relating to the support of the research and development activities. MERC operates out of its research facility located in Warner Robins, Georgia and employs a core group of approximately 100 research engineers and scientists.

Degree Programs

Undergraduate

BACHELOR OF SCIENCE IN ENGINEERING
Specializations:
- Biomedical
- Computer
- Electrical
- Environmental
- Industrial
- Mechanical

BACHELOR OF SCIENCE
- Industrial Management
- Technical Communication

Minor
- Technical Communication

Graduate

MASTER OF SCIENCE IN ENGINEERING
- Biomedical Engineering
- Computer Engineering
- Electrical Engineering
- Engineering Management
- Mechanical Engineering
- Software Engineering

MASTER OF SCIENCE
- Software Systems
- Technical Communication Management
- Technical Management

Advanced Placement

Advanced placement and CLEP credits for appropriate courses which satisfy University criteria may be included in the BSE degree.

Transfer Credit

Students who transfer into the School of Engineering must have a minimum of 2.5 GPA in all college enrollments. In addition, students must also have a 2.5 GPA or higher in all college Math, Science and Engineering courses (excluding developmental Math courses). They must also be in good standing—that is, not on
warning, probation, suspension, or equivalent. The School of Engineering will consider transfer students at any stage in their education; however, it is recommended that prospective transfer students follow a pre-engineering course of study if available at their institution. The core of any pre-engineering course of study includes: mathematics (i.e., calculus through differential equations); laboratory based chemistry; and calculus based physics with laboratory. While all legitimate transfer credits are accepted, students must meet the degree requirements established by the School of Engineering. Any additional hours will be reflected on a student’s transcript as general electives.

Articulation Agreements

Mercer School of Engineering has transfer articulation agreements in existence and under development with schools throughout the Southeast that have pre-engineering programs. These agreements follow the patterns of the Regent’s Engineering Transfer Program.

Credit by Examination

Students who have completed course work or other training that cannot be accepted as transfer credit for a School of Engineering course may elect to receive credit by examination. This can be done by passing a comprehensive test prepared and administered by a School of Engineering faculty member who has recently taught the course. A fee is charged for taking the examination, and there must be sufficient evidence that a passing grade will be achieved before the examination will be given.

English Requirement

Any student whose written or spoken English in any course is unsatisfactory may be reported by the instructor of that course to the Dean of the School of Engineering. The Dean may choose to assign supplementary work, including additional course work, consistent with the needs of the student. The granting of a degree may be delayed until the work assigned is satisfactorily completed.

Credit Hours

The number of credit hours awarded for a course is based on the number of lecture and laboratory hours per week. The School of Engineering has defined a unit of credit for programs under its jurisdiction. An hour of work is the equivalent of 50 minutes of class time (often called a “contact hour”) or 60 minutes of independent study work. The normal semester is 15 weeks in length. For a three-credit hour lecture-discussion course, this equates to 2,250 minutes of class time (45 contact hours). Either two or three hours of laboratory attendance equate to one hour of academic credit.

Satisfactory - Unsatisfactory Grading Option

Students seeking degrees from the School of Engineering are not permitted to take courses on a Satisfactory - Unsatisfactory basis for credit toward graduation unless the course is only offered on an S-U basis.
Academic Requirements

A baccalaureate degree will be awarded to those students in good academic standing who successfully satisfy the academic requirements of the University, the School of Engineering, and their specialization and who have adhered to the standards of conduct generally applicable to the engineering or related profession.

Dean’s List

Criteria for achieving dean’s list status are listed in the Academic Information section of this Bulletin.

Academic Warning, Probation, and Suspension

To implement the University requirements for academic warning, probation, and suspension, the School of Engineering has adopted the following provisions to assure engineering students who experience difficulty will receive prompt attention.

1. Warning

A student may be placed on academic warning if his or her term grade point average is below 2.0. A student that is on academic warning may be returned to academic good standing by achieving a term grade average of 2.0 or greater and an accumulative grade point average of 2.0 or greater.

2. Probation

A student will be placed on academic probation if his or her term grade point average is below 1.0 or the cumulative grade point average is below the minimum University requirement. A student who is on academic warning will be placed on academic probation if his or her term grade point average is below 2.0.

A student who is on academic probation may have conditions imposed on him or her as a requirement to return to academic good standing. A student who is on academic probation cannot be returned to good standing until a term grade point average and a cumulative grade point average of 2.0 or greater are both achieved.

3. Suspension

A student who is on academic probation may be suspended if his or her term grade point average is below 2.0. Normally a student who is suspended is not readmitted. A request for readmission will be considered only after one or more terms of no enrollment in Mercer School of Engineering courses. Readmission will be granted only with specific conditions imposed by the Academic Standards Committee.

A student may appeal a warning, probation, and suspension to the Academic Standards Committee.

Second Specializations, Majors and Minors

Students specializing in engineering may earn a second major or a minor in programs offered through the College of Liberal Arts. A second major in business, through the Stetson School of Business and Economics, may be earned only by
completing all of the requirements for a second degree, the B.B.A. degree, including the general education requirements. Minors for non-business students are offered in accounting, business administration, and economics by the Stetson School of Business and Economics. A student must officially declare the second major, degree, or minor, and follow proper University procedures, which call for fulfilling the specific course requirements for the second major, degree, or minor, plus additional requirements that may be arranged on an individual basis.

Students wishing to earn a second major or degree must request or seek a second advisor from that department, who will be in addition to their primary engineering advisor. Second advisors are not required for engineering students minoring in physics, chemistry, accounting, business administration, and economics.

Engineering students may elect two specializations simultaneously. To do this, a student must officially declare each specialization, be assigned an advisor from each specialization, and complete all the requirements of each specialization. Second specializations and minors will be noted on permanent records. Second specializations will be noted on diplomas.

Within the School of Engineering, minors are offered to all qualified university students in technical communication. It is anticipated that curriculum revisions currently underway will result in the availability of additional minors in future academic years.

**Industrial Work Experiences:**

**Industrial Experiences**

Students working toward degrees in engineering may qualify for work-learning experiences. Through industrial experience, students combine work in the classroom with practical experience in industry, business, or government. The School of Engineering encourages students to view the employment phases of the program, not as mere practice, but rather as a complementary part of the educational process. Through industrial opportunities, students experience practical application for at least one academic semester. While formally enrolled in a work experience, students are considered as being enrolled full-time.

Work assignments exist, or can be developed, in every area of study within the School of Engineering. Assignments are available nationwide. Through diversified types of employment, students acquire a wide range of experience in fields related to their options. The level of responsibility and expertise required for the job increases to match the student’s progress through the academic curriculum, thus assuring a stimulating, challenging employment situation. Salaries are established by individual employers, and increase as the student progresses academically.

**Qualifying for Industrial Experience Program**

Students applying to the industrial experience program should be full-time students in good academic standing with at least a 2.5 GPA. First semester freshman applicants qualify for an initial industrial experience after successfully completing at least 30 credit hours. Transfer students must complete a minimum of 12 hours as students in the School of Engineering. All students must have the equivalent of three full-time industrial experience semester credit hours to earn the certificate of completion. Policy information and specifics relating to the industrial experience program is available in the Industrial Experience and Graduate
Programs Office. Students interested in applying for participation in the industrial experience program should contact the Industrial Experience Director in the School of Engineering or the Office of Career Services, Mercer University, Macon, GA 31207.

Off Campus Educational Programs

The School of Engineering offers courses at satellite locations through its Office of Off Campus Programs. Robins Air Force Base, adjacent to the city of Warner Robins and located approximately 17 miles southeast of the main campus in Macon is one of these locations. Courses are held on the base in the late afternoon and evening for the convenience of those who hold full-time jobs in the area. Programs of study are offered at the graduate level. All of the courses held on-base are open to U.S. citizens with a pass authorizing entry to the air base. All laboratory courses for any off campus undergraduate program are held on the main campus in Macon. Further information about these programs is available from the School of Engineering.

Undergraduate Curricula

Bachelor of Science in Engineering Degree Program

The strength of Mercer’s BSE program lies in its combination of breadth and depth. Breadth is achieved by every student completing a set of courses that build a strong foundation in writing, speaking, mathematics, lab sciences, and engineering fundamentals. In addition, special emphasis is placed on cross-disciplinary work, with all BSE students required to complete courses grounding them in the basic tools and techniques of electrical, mechanical, and industrial engineering. These “breadth” courses constitute the “core” of the BSE degree and are covered in greater detail in subsequent sections of this Bulletin. Depth is achieved by adding to the core foundation a set of courses in one area of specialization. The areas of specialization currently available are:

- Biomedical
- Computer
- Electrical
- Environmental
- Industrial
- Mechanical

Many of the features of the BSE program were introduced when Mercer changed from the quarter to the semester system. BSE students who entered Mercer under a catalog published prior to May 1, 1997 may be able to take advantage of some of these features. The subparagraphs which follow provide brief description of the new elements. However, it is essential that transitioning students consult with their faculty advisor before making any plans concerning these features.

The program educational objectives that have been established for the Bachelor of Science in Engineering program are as follows. Graduates are prepared to be practicing engineers with the knowledge and skills needed to: (1) Identify, formulate and solve engineering problems through analysis and design using the principles of science and mathematics and the modern tools of engineering. (2) Work effectively in a variety of contexts using superior communication
skills, knowledge of contemporary issues with a commitment to professional ethics and life-long learning. (3) Pursue additional graduate or professional education. (4) Participate in their local and global communities through sustaining service and leadership.

Mercer engineering seniors are required to exhibit their ability to conduct appropriate analysis and devise a system, component, or process under a variety of realistic constraints. This engineering design project is a capstone requirement for all BSE seniors.

All senior students are required to take the Fundamentals of Engineering (FE) exam during their senior year and demonstrate proficiency in both general and specialization areas of engineering. The FE exam is a nationally normed exam administered by the National Council of Engineering Examiners. Successful completion of this exam is the first step in attaining a license as a professional engineer. It is offered once during the fall and spring terms. All students must provide evidence that they took the FE exam before graduation.

**Humanities, Social Sciences and Global Awareness (HU/SS/GA)**

Students are required to complete 12 credit hours from among the rich array of humanity and social science courses offered at Mercer. Courses involving the following topics are normally classified as humanities; art, Christianity, literature, music, foreign languages, history, and philosophy. Courses involving the following topics are normally classified as social sciences; anthropology, economics, psychology, political science, and sociology. The four humanity, social science, and global awareness courses (12 credit hours) must meet all of the following constraints:

1. At least two courses must be in the same area, typically meaning from the same department, with at least one of them at the 300 or 400 level. This provides depth in one humanities/social science area.

2. In keeping with the university’s Baptist heritage, the School of Engineering requires its students to complete at least one religion course (3 credit hours), selected from a list of approved courses maintained in the dean’s office.

Please note that courses which are primarily characterized as performance or the exercise of personal craft may not be used to satisfy any part of this 12 credit requirement.

Engineering graduates from Mercer are increasingly employed in an international environment. Some graduates work for foreign companies. Others are placed in companies that compete in international markets. Many engineers and corporate executives have emphasized the need for schools of engineering to prepare graduates to practice in a global environment.

As a consequence, the School of Engineering encourages students to complete their humanity and social science requirement by taking courses which are classified as global awareness. Examples of global awareness courses are world religions, foreign languages, international economics, etc. A list of approved global awareness courses is maintained by the dean’s office.

Also, Mercer sponsors a number of international study alternatives for students, some of which have an engineering emphasis. Students are encouraged to take advantage of this travel and study to fulfill part of the global awareness initiative.
Students who are not natives of the United States are encouraged to develop a program in American studies that parallels the goals and objectives of the global awareness program. Individuals in this category need to work closely with their advisor to develop a sequence of courses with appropriate breadth and depth.

Students entering School of Engineering programs prior to May 1, 1997 may continue with the humanity and social science sequences described in the catalog under which they entered. It is essential that, in transition from the quarter to the semester system, students consult with their advisor before making any plans concerning these requirements.

Integrated Bachelor of Science in Engineering (BSE) / Master of Science in Engineering (MSE)

An integrated bachelor of science in engineering/master of science in engineering program which involves a minimum of 30 semester hours (a full fifth year) beyond the 129 semester hours required for the BSE degree is available as an option for students who qualify for admission to the graduate program. Please see the graduate section near the back of this catalog for more information about this program.

Engineering Core (66 hours)

The engineering core is a set of required courses taken by all BSE students. Upon completion of the core sequence, graduates will be able to:

1. Demonstrate an acceptable grasp of math, science, and engineering knowledge on which they can build more specialized proficiency and depth of understanding.

2. Demonstrate appropriate problem solving and decision making skills and ability to think analytically, critically and ethically.

3. Demonstrate an ability to communicate effectively with both technical and non-technical audiences and to engage in effective interaction with others.

Most of the freshman and sophomore courses are dedicated to basic subject matter in writing, speaking, mathematics, lab sciences, and engineering fundamentals. Special emphasis is placed on cross-disciplinary work, with all BSE students required to complete courses grounding them in the basic tools and techniques of electrical, mechanical, and industrial engineering. Following this preparation, students who exhibit appropriate competency dedicate their junior and senior years to development of specialized proficiency. Prior to graduation each student must exhibit an ability to accomplish engineering design by completing a project in which small groups design, build and test a realistic engineering system.

A typical array of courses taken by freshmen in BSE programs is shown below. More detailed information appears in the specialization presentations shown elsewhere in this catalog.
## Bachelor of Science in Engineering
### Basic Level Curriculum

### Freshman Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNV 101 Freshman Experience</td>
<td>EGR 107 Intro to Engr Design</td>
</tr>
<tr>
<td>EGR 108 Professional Practice(^1)</td>
<td>EGR 126 Intro to Problem Solving(^1)</td>
</tr>
<tr>
<td>MAT 191 Calculus I</td>
<td>MAT 192 Calculus II</td>
</tr>
<tr>
<td>CHM 111 General Chemistry</td>
<td>PHY 161 General Physics I(^2)</td>
</tr>
<tr>
<td>FYS 101 First Year Seminar</td>
<td>PHY 121L General Physics I Lab</td>
</tr>
<tr>
<td></td>
<td>XXX HU/SS/GA I</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\(^1\)EGR 108 or EGR 126 may be taken in either the first or second semester.

\(^2\)Biomedical and environmental students take CHM 111 this semester and take Physics I and Phy I lab in the first semester, sophomore year.

### Sophomore Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>XXE 28Z Intro to (Specialty) Engr (^3)</td>
<td>EGR 233 Dynamics</td>
</tr>
<tr>
<td>EGR 232 Statics/Solid Mechanics</td>
<td>EGR 235 Thermodynamics(^4)</td>
</tr>
<tr>
<td>EGR 244 Electrical Fundamentals</td>
<td>EGR 245 Electrical Fund. II</td>
</tr>
<tr>
<td>MAT 330 Intro to Differential Eqns</td>
<td>EGR 246L Electrical Fund II Lab</td>
</tr>
<tr>
<td>PHY 162 General Physics II</td>
<td>EGR 252 Applications of Engr Math</td>
</tr>
<tr>
<td>PHY 162L General Physics II Lab</td>
<td>Technical course required by specialty</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\(^3\)XXE 28Z includes ECE 286, ECE 288, and BME 288, all one-credit courses in a 15 credit semester taken by students in the specializations of computer, electrical, biomedical and industrial engineering. The environmental specialization includes this introduction as a three-credit course in a 17 credit semester while the mechanical specialization instead includes a three-credit hum/ss course in a 17 credit semester.

\(^4\)EGR 108 or EGR 126 may be taken in either the first or second semester.

### Junior Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGR 312 Engineering Economy</td>
<td>EGR 386 Engr Systems Analysis</td>
</tr>
<tr>
<td>MAT 293 Multivariable Calculus (^5)</td>
<td>TCO 341 Technical Communication</td>
</tr>
<tr>
<td>Technical course(s) required by specialization</td>
<td>XXX HU/SS/GA II</td>
</tr>
<tr>
<td></td>
<td>Technical course(s) required by specialization</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\(^5\)Multivariable calculus is taken by students enrolled in the biomedical traditional, electrical and mechanical specializations.
### Mathematics, Engineering Analysis and Applications Requirements (17 hours)

Engineers must have a solid foundation in mathematics. They must also be able to accomplish successful engineering analysis and apply the fundamentals of mathematics in a wide variety of circumstances. Students develop these abilities by successfully completing the following core courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 191</td>
<td>Calculus I</td>
<td>4-0-4</td>
</tr>
<tr>
<td>MAT 192</td>
<td>Calculus II</td>
<td>4-0-4</td>
</tr>
<tr>
<td>EGR 252</td>
<td>Applications of Engineering Mathematics</td>
<td>3-0-3</td>
</tr>
<tr>
<td>MAT 330</td>
<td>Introduction to Differential Equations</td>
<td>3-0-3</td>
</tr>
<tr>
<td>EGR 386</td>
<td>Engineering Systems Analysis</td>
<td>3-0-3</td>
</tr>
</tbody>
</table>

### Lab Science Requirements (12 hours)

The application of science is the essence of engineering. Courses in physics and chemistry in particular are designed to introduce the student to the study of matter and the transformation of matter through physical and chemical reactions. Students build a foundation for engineering studies by exploring the properties of mass, momentum, and energy. Courses in college chemistry and calculus-based physics are required in this area. The following courses satisfy the lab science requirements of the Engineering Core and are required of all BSE degree students:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 111</td>
<td>General Chemistry I</td>
<td>3-3-4</td>
</tr>
<tr>
<td>PHY 161</td>
<td>General Physics I: Mechanics and Thermodynamics</td>
<td>3-0-3</td>
</tr>
<tr>
<td>PHY 121L</td>
<td>General Physics I Lab</td>
<td>0-3-1</td>
</tr>
<tr>
<td>PHY 162</td>
<td>General Physics II: Electricity and Magnetism, Wave Motion and Optics</td>
<td>3-0-3</td>
</tr>
<tr>
<td>PHY162L</td>
<td>General Physics II Lab</td>
<td>0-3-1</td>
</tr>
</tbody>
</table>
Engineering Fundamentals  
(35 hours)

The courses listed below are designed to build a foundation for the practice of engineering; to bridge the gap between mathematics/basic sciences and more advanced courses; to extend each student’s knowledge toward an ability to engage in creative application of these fundamentals; to include consideration of relevant social, economic, political, moral, and ethical issues; and to clearly and logically convey the results of analysis and design to engineers and lay people, both in writing and orally.

- FYS 101. First Year Seminar 4-0-4
- EGR 107. Introduction to Engineering Design 2-2-3
- EGR 108. Professional Practices 3-0-3
- EGR 126. Introduction to Problem Solving 3-0-3
- EGR 232. Statics/Solid Mechanics 3-0-3
- EGR 233. Dynamics 2-0-2
- EGR 235. Thermodynamics 3-0-3
- EGR 244. Electrical Engineering Fundamentals I 3-2-4
- EGR 245. Electrical Engineering Fundamentals II 3-0-3
- EGR 246L. Electrical Fundamentals Lab 0-3-1
- EGR 312. Engineering Economy 3-0-3
- EGR 400. Graduation Exhibit 0-0-0
- TCO 341. Technical Communication 3-0-3

EGR Courses

101. Freshman Engineering Honors  
(1-0-1)
Prerequisite: Outstanding High School GPA and SAT score. Permission of the Dean.
Co-requisite: EGR 126 and MAT 191.
To familiarize the students with robots and robotic programming as a foundation to discuss the general topic of autonomy. EGR 101 is the first of two courses sequence that introduces freshmen engineering honors students to advanced topics normally not covered in freshman courses. This course is graded S/U.

102. Freshman Engineering Honors II  
(1-0-1)
Prerequisites: EGR 101 and permission of the Dean.
Students explore fundamental issues involved in the design of autonomous entities including the possibility mimicking human behavior. EGR 102 is the second of a two-course sequence that introduces freshmen engineering honors students to advanced topics normally not covered in freshman courses. This course is graded S/U.

107. Introduction to Engineering Design  
(2-2-3)
Prerequisite: Be a fully admitted student in the School of Engineering or have the written permission of the dean.
Systematic procedures for engineering design. Student teams pursue a design project that incorporates problem identification, information gathering, development of alternative solutions, merit analysis, decision presentation, implementation, testing, and redesign. Students practice skills in preparing and presenting a variety of engineering-related written and oral reports.
108. Professional Practices (3-0-3)
Prerequisite: Be a fully admitted student in the School of Engineering or have the written permission of the dean.
In a seminar format, small groups explore the history of engineering, engineering ethics, and the impact of engineering practice in the context of society. Critical reading and thinking skills are developed through extensive readings and discussions of relevant engineering, social science, and humanities topics. Students gain fluency in preparing and presenting the results of these discussions, both in written and oral format.

126. Introduction to Problem Solving (3-0-3)
Prerequisite: Be a fully admitted student in the School of Engineering or have the written permission of the dean.
Special attention is given to development of an organized thought process in which analysis, modeling, and construction of algorithms lead to structured procedures for solving non-trivial problems. The use of structured procedures is reinforced by learning and solving problems with a high level computer language such as C++.

190-290-390-490. Cooperative Education Work Experience (0-1-1)
Prerequisites: Minimum GPA of 2.50; Approval of Director of Cooperative Education and faculty advisor. Satisfy resident credit requirements. Four month work periods alternated with academic semesters.

201. Sophomore Engineering Honors I (1-0-1)
Prerequisite: Dean's Permission.
Each student develops a personal project plan for the remainder of the engineering honors experience. This course is graded S/U.

202. Sophomore Engineering Honors II (1-0-1)
Prerequisite: Dean's Permission.
Each student works with a faculty advisor in accordance with a personal project plan that was approved for the remainder of the engineering honors experience. This course is grade S/U.

232. Statics/Solid Mechanics (3-0-3)
Corequisites: MAT 192, PHY 161.

233. Dynamics (2-0-2)
Prerequisites: EGR 232, MAT 192, PHY 161.

235. Thermodynamics (3-0-3)
Prerequisites: PHY 161, MAT 192.
A first course in the fundamentals of thermodynamics with an introduction to fluid mechanics. Properties of substances, open and closed systems, conservation of mass, conservation of energy and the second law of thermodynamics. Second law analysis of systems. Introduction to Bernoulli’s equation for incompressible flows. Introduction to cycle analysis. Use of these principles in the analysis and solution of engineering problems.
244. Electrical Engineering Fundamentals I (3-2-4)
Corequisite: MAT 330.
Basic electrical circuit analysis; DC and sinusoidal steady-state circuits, manual and computer analysis methods, capacitance and inductance.

245. Electrical Engineering Fundamentals II (3-0-3)
Prerequisite: EGR 244.
Corequisite: EGR 246L.
An introduction to electronic components: diodes, junction transistors, field effect transistors, operational amplifiers, and small signal amplifiers. Magnetic fields and circuits. Rotational and moving iron transducers, AC and DC motors and generators, transformers, single phase power and stepper motors.

246L. Electrical Fundamentals Lab (0-3-1)
Corequisite: EGR 245.
Basic methods and instrumentation for measurements of electrical circuits and operational amplifier and diode circuits. Planning of experimental processes and procedures; manual and direct computer collection of experimental data, and off-line and on-line data analysis. Reports of experimental investigation, including descriptions of study objectives, procedures and methods, analysis methods, results, and conclusions.

252. Applications of Engineering Mathematics (3-0-3)
Prerequisites: MAT 192.

301. Junior Engineering Honors I (1-0-1)
Prerequisite: Dean's Permission.
Each student works with a faculty advisor in accordance with a personal project plan that was approved for the remainder of the engineering honors experience. This course is graded S/U.

302. Junior Engineering Honors II (1-0-1)
Prerequisite: Dean's Permission.
Each student works with a faculty advisor in accordance with a personal project plan that was approved for the remainder of the engineering honors experience. This course is graded S/U.

312. Engineering Economy (3-0-3)
Prerequisites: MAT 192.
Economics in engineering decision making, interest and present worth, depreciation, economic analysis of engineering alternatives. Project management, budgeting and cost estimation, and economic analysis. The use of software tools in economic analysis and project management.

386. Engineering Systems Analysis (3-0-3)
Prerequisite: MAT 330.
Corequisites: EGR 233, EGR 245.
Analytical techniques used to develop and analyze models of engineering sys-
tems. Topics include optimization techniques, linear and nonlinear programming, and differential equations used to model and analyze engineering systems.

400. Graduation Exhibit  (0-0-0)
Corequisite: XXX 487.
The graduation examination as identified in the university Bulletin under the School of Engineering, Undergraduate Curricula, Item A, Exhibits. This exam is intended to examine proficiency in both general and programmatic areas of engineering. This course is graded S/U.

401. Senior Engineering Honors I  (1-0-1)
Prerequisite: Dean’s Permission.
Each student submits a draft version of his or her Engineering Honors Report. This course is graded S/U.

402. Senior Engineering Honors II  (1-0-1)
Prerequisite: Dean’s Permission.
Each student revises the draft version of his or her engineering Honors Report in response to faculty reviews and submits the final version in completion of the requirements for the Engineering Honors Program. This course is graded S/U.

SPECIAL COURSES: EGR 191, 192, 193, 491, 492, 493, 498, 499 for variable credit. May be repeated for credit with approval of academic advisor and department chair.

191-192-193. Special Topics  (1-6 hours)
491-492-493. Special Topics  (1-6 hours)
498. Professional Seminar  (1-6 hours)
499. Independent Study  (1-6 hours)

Biomedical Engineering Specialization
During the last quarter century the world has witnessed unprecedented progress in engineering and medical science resulting in dramatic lifestyle changes. Biomedical engineering is at the confluence of modern engineering and medicine. Biomedical engineers apply engineering methods to problems in medicine and the life sciences and have played a vital role in the rapid and unparalleled advances that have occurred in these fields.

Biomedical engineers contribute to improved health care and enrich the quality of our lives. A biomedical engineer may work as a member of a research team, along with other health professionals, to find solutions to diverse medical problems. Biomedical engineers design new therapeutic and diagnostic instruments that permit treatment and visualization of internal organs. Biomedical engineers develop new materials and devices to supplant or augment diseased or malfunctioning organs and systems. Biomedical engineers analyze human and prosthetic performance in clinical environments. Among the most visual examples of biomedical engineering developments are the computer assisted tomography (CAT) and ultrasonic imaging scanners, kidney dialysis units, and pacemakers, heart valves and vascular grafts.

Biomedical engineering graduates have secured challenging positions in a variety of related fields with responsibilities ranging from the practice of medicine and traditional engineering, to the design and manufacture of bioinstrumentation.
devices, to the administration health-care services and management of hospital components, to the computer monitoring and simulation of medically related systems.

In recognition of the complexity of the biomedical engineering field, many employers expect entry-level graduates to possess academic credentials beyond the Bachelor of Science in Engineering Degree. Because of this, and to increase one’s flexibility, biomedical engineering students are strongly encouraged to excel academically so that graduate/professional school is an option.

**Academic Requirements for BSE, Biomedical Engineering Specialization**

In addition to the retention, graduation, and academic requirements of Mercer University and the School of Engineering, students choosing to specialize in biomedical engineering must maintain a Mercer grade point average of at least 2.0 in required biomedical engineering courses and technical electives.

**Departmental Honors for BSE in Biomedical Engineering**

Each year, the biomedical engineering faculty determine the graduating biomedical engineering student who has best distinguished himself or herself, and recognizes this student as the Outstanding Graduate in Biomedical Engineering.

**The Biomedical Engineering BSE Curriculum**

The goals of the biomedical engineering curriculum are to produce graduates who can effectively accomplish biomedical engineering design and analysis; who can effectively communicate orally and in writing; who can successfully compete with other engineers in their first engineering position; and to provide a curriculum that exceeds minimum recognized standards for engineering education.

Owing to the technical complexities of, and team-oriented approach to, solving medical problems, biomedical engineering students study the basic sciences, mathematics, and engineering common among traditional engineering fields. Beyond this, they study the life sciences and how traditional engineering can be used to understand, analyze, and design physiological and medical systems. Specific components of the curriculum are outlined in the following section.

In recognition of the expectations of employers, all biomedical engineering students are required to select elective courses and curricular paths that allow them to explore engineering or medical sciences in more detail. Among these options at the bachelor’s level are the pre-medical or other science course requirements or a concentration of courses in at least one of the other engineering disciplines. Qualified students are strongly encouraged to pursue post-baccalaureate education whether in a medical or other professional school, or in graduate school, all of which are available at Mercer.

Mercer’s five-year Master of Engineering (ME) in Biomedical Engineering degree is available to the top academic students and also includes the emphasis of minoring in another engineering discipline. The emphasis of this degree is on the practice of engineering. Students accepted into the master of engineering program begin combined BSE and ME studies at the beginning of their senior year. The two degrees are awarded simultaneously upon graduation. The master of engineering degree may also be used as a stepping stone for advanced graduate education at other institutions.

Mercer’s schools of engineering and medicine have established a cooperative admission program for highly motivated and talented students who are residents
of Georgia. Students who apply, are accepted, and maintain enrollment in The Dual Biomedical Engineering Medical School Admission Program (DBemSAP) are accepted to the Mercer School of Medicine upon completion of their biomedical engineering graduation requirements. Admission to this program is highly selective and DBemSAP students must indicate their continued compliance with the mission of the Mercer School of Medicine and must maintain high academic achievements. A similar program, the Dual Biomedical Engineering Pharmacy School Admission Program (DBepSAP), exists with Mercer’s Southern School of Pharmacy in Atlanta. More information on these programs may be obtained from the departmental office.

**Bachelor of Science in Engineering (BSE)**  
**Degree Requirements: Biomedical Engineering Specialization**

1. UNV 101 ................................................................. 1 hour  
2. Engineering Core .................................................. 64 hours  
3. Additional Mathematics* ......................................... 3 hours  
   MAT 293 .............................................. Multivariable Calculus  
   *Premedical Path Students may substitute CHM 222 Organic Chemistry II  
4. Humanities, Social Sciences, Global Awareness ............ 12 hours  
5. Other Required Courses outside of BME ....................... 16 hours  
   BIO 205. Introduction to Biology for Biomedical Engineers  
   BIO 325. Comparative Animal Physiology  
   CHM 112. General Chemistry II  
   CHM 221. Organic Chemistry I  
6. Required Biomedical Engineering (BME) courses .......... 24 hours  
   BME 288. Introduction to Biomedical Engineering I  
   BME 402. Biomedical Instrumentation  
   BME 412. Biomechanics  
   BME 425. Basic Transport Phenomena  
   BME 445L. Senior Biomedical Engineering Lab2  
   BME 440. Dynamics of Biological Fluids  
   BME 460. Biomedical Materials  
   BME 470. Biomedical Applications/Microprocessors  
   BME 480. Introduction to Senior Design  
   BME 487. Engineering Design Exhibit I  
   BME 488. Engineering Design Exhibit II  
7. Technical Electives .................................................. 9 hours  

Technical electives are advanced engineering, science and math courses chosen with the approval of the student, faculty advisor and department chair for the purpose of providing additional depth in areas of special interest to the student. Students pursuing the ME degree must select technical electives consistent with minor requirements in another engineering discipline. Students not pursuing post baccalaureate education are strongly encouraged to do the same.

Total Semester Hours Required (Traditional Path) 129 hours

278 / SCHOOL OF ENGINEERING
## Biomedical Engineering-Traditional Path

### Freshman Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGR 108 Professional Practices</td>
<td>EGR 108 Professional Practices</td>
</tr>
<tr>
<td>OR EGR 126 Intro to Prob Solving</td>
<td>OR EGR 126 Intro to Prob Solving</td>
</tr>
<tr>
<td>MAT 191 Calculus I</td>
<td>EGR 107 Intro to Engr Design</td>
</tr>
<tr>
<td>CHM 111 General Chemistry I</td>
<td>MAT 192 Calculus II</td>
</tr>
<tr>
<td>FYS 101 First Year Seminar</td>
<td>CHM 112 General Chemistry II</td>
</tr>
<tr>
<td>UNV 101 The Freshman Experience</td>
<td>XXX HU/SS/GA I</td>
</tr>
<tr>
<td></td>
<td>1 0 1</td>
</tr>
<tr>
<td></td>
<td>15 3 16</td>
</tr>
</tbody>
</table>

### Sophomore Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>BME 288 Intro Biomedical Engr</td>
<td>EGR 233 Dynamics</td>
</tr>
<tr>
<td>EGR 232 Statics/Solid Mech</td>
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### Junior Year

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#### Fifth Year

See Master of Science in Engineering (MSE) Degree Programs in the Graduate section of this Bulletin

280 / SCHOOL OF ENGINEERING
BME Courses

288. Introduction to Biomedical Engineering (0-3-1)
An introduction to LabVIEW programming language and to biomedical engineering.

402. Biomedical Instrumentation (2.5-1.5-3)
Prerequisite: EGR 245.
Corequisite: EGR 386.
Methods and instrumentation for measuring quantities of biological and medical significance, especially electrical signals from the body, but also including temperature, blood pressure, and body chemistry. Design of biomedical instruments. A laboratory experience is associated with this class and provides hands-on experience on instrument component design including amplifiers and filters.

412. Biomechanics (3-0-3)
Prerequisites: EGR 232, EGR 233.

413. Advanced Biomechanics (3-0-3)
Prerequisite: BME 412.
Current topics in biomechanics research including musculoskeletal mechanics, sports biomechanics, tissue engineering, 3-D segmental analysis, fracture fixation, implant design, and/or clinical biomechanics are examined. Students will be exposed to current issues in the field through discussions, presentations, and paper.

425. Basic Transport Phenomena (2.5-1.5-3)
Prerequisites: EGR 235, EGR 330.
Fundamentals of the transport of energy, mass and momentum in human cells and tissues. Introduction to the chemical and physical properties of body fluids, cell and tissue structures, and solute transport in biological systems. Thermal transport via conduction, convection, radiation, and evaporation in the human body. Oxygen transport in the lungs and other biological tissue. Introduction to pharmacokinetic analysis and modeling. Applications and design of transport processes in extracorporeal devices. A laboratory experience is associated with this class providing hands-on experience with the concepts.

426. Diagnostic Imaging Systems (3-0-3)
Prerequisites: EGR 244, EGR 245, MAT 330.
Applications of modern imaging methods to presentation of visual information obtained from a variety of sources including x-ray, fluoroscopy, computed tomography, fiber optics, nuclear medicine, ultrasonic and magnetic resonance imaging.

440. Dynamics of Biological Fluids (3-0-3)
Prerequisite: EGR 235 and BME 425.
445L. Senior Biomedical Engineering Laboratory (0-3-1)
Prerequisites: BME 402, BME 425.
Laboratory investigation of biomedical instrumentation and signal analysis. Basic experiments in biofluid and thermal transport. Design and conduct of experiments using modern techniques, skills and tools.

460. Biomedical Materials (3-0-3)
Prerequisites: BIO 205 or BIO 220, CHM 221, EGR 232.
Chemical and physical properties of metals, polymers, and ceramics for use in biomedical applications. Biological corrosion of materials, and response of living tissue to foreign substances. Criteria for evaluation of materials for prostheses and artificial organs. Design considerations for implantable prostheses materials.

470. Biomedical Applications of Microcontrollers (3-0-3)
Prerequisite: EGR 245.
Interface of memory and other devices such as analog-to-digital converters and digital-to-analog converters to microcontroller chips. Selection and assembly-language programming of microcontrollers for interfacing to peripherals. Design of microcomputer systems for medical use. Includes laboratory exercises and design projects.

480. Introduction to Senior Design (0-1-0)
Corequisites: EGR 312, EGR 386 and TCO 341.
Course will provide guidance for the selection of team members and topic for the senior design project to be completed in BME 487 and BME 488. To successfully complete the course, a student must belong to a team (3 to 4 persons) and briefly outline the project goals to be implemented in BME 487 and BME 488. A seminar series will be conducted to facilitate student introduction to potential industrial clients and projects. Seminar attendance is required to obtain a satisfactory course grade. This course is graded S/U.

487. Engineering Design Exhibit I (0-6-2)
Prerequisites: EGR 312, EGR 386, TCO 341, and BME 480. Must have completed all required 100 and 200 level engineering, mathematics and science courses. Corequisite: BME 445L.Multi-disciplinary design projects with substantial BME content.
Small groups design, build, and test realistic engineering systems under faculty supervision. Projects include safety, economic, environmental, and ethical considerations and require written and oral reports.

488. Engineering Design Exhibit II (0-6-2)
Prerequisite: BME 487.
Continuation of BME 487 multi-disciplinary design projects with substantial BME content. Small groups design, build, and test realistic engineering systems under faculty supervision. Projects include safety, economic, environmental, and ethical considerations and require written and oral reports.

SPECIAL COURSES: BME 491, 492, 493, 498, 499 for variable credit. May be repeated for credit with approval of academic advisor and department chair.

491-492-493. Special Topics (1-6 hours)
498. Professional Seminar (1-6 hours)
499. Independent Study (1-6 hours)
Computer Engineering Specialization

The central focus of the computer engineering specialization is the engineering design of systems which operate in real-time with computers embedded in the system as a component or controller. The embedded computer is often a single chip “microcontroller” or a custom designed small computer which consists of a small number of chips. A mix of electronics fundamentals, general engineering fundamentals, engineering design, and computer system principles form the computer engineering program. This is obviously a rapidly expanding field of which growth is fueled by the progress in semiconductor chip size and speed. The amount of memory available on a single chip has quadrupled each three years for over two decades. Processor and logic chips are not far behind in this growth pattern and this has led to astonishing increases in the power of computers, especially at the low cost end of the spectrum. As a consequence, computers are found “embedded” in the design of everything from household appliances to automobiles. The growth in chip capacity also leads to the ability to put a lot of software on just one or two chips, enabling these embedded, low-cost computers to run more and more complex software. That drives computer engineering programs to include not only modern programmable chip based hardware design, but also modern software design methodology in anticipation of the implementation of more and more complex software on even cheaper systems. As the Internet expands, local communication capability between computers is also rising in importance.

Academic Requirements for BSE, Computer Engineering Specialization

The computer engineering specialization builds upon the base provided by the engineering core and general studies. Beyond this base, the curriculum is composed of two parts; computer engineering required courses and technical electives. Approved technical elective courses enable students to deepen their background in computer engineering and to expand their knowledge in related fields. Successful completion of the curriculum leaves the student prepared to embark on a career in computer engineering or to pursue advanced education in graduate school. The attention of the student is directed to the retention, graduation and academic requirements of the University and the School of Engineering. Required computer engineering courses require a C or better in prerequisites which include: EGR 244, EGR 245, ECE 202, CSC 204, CSC 205, ECE 322 and ECE 323. Elective computer engineering courses also require a C or better in the applicable prerequisites. Computer engineering students must complete the key foundation courses in the discipline before enrolling in senior design, ECE 485.

Departmental Honors, for BSE in Computer Engineering

Departmental Honors will be conferred each year by the computer engineering faculty on the graduating senior who has best distinguished himself or herself academically.

Bachelor of Science in Engineering (BSE) Degree Requirements: Computer Engineering Specialization

1. Humanities, Social Sciences, Global Awareness . . . . . . . . . . . . .16 hours
   FYS 101, HU/SS/GA 12
2. Math/Science .................................................. 30 hours
   MAT 191, MAT 192, MAT 225, EGR 252, MAT 330, CHM 111, PHY 161,
   PHY 121L, PHY 162, PHY 162L

3. Other ...................................................... 1 hour
   UNV 101. The Freshman Experience

4. Non-Computer Engineering Core .......................... 23 hours
   EGR 107, EGR 108, EGR 232, EGR 233, EGR 235, EGR 312, TCO 341,
   Technical Elective

5. Computer Engineering Oriented Core .................... 14 hours
   EGR 126, EGR 244, EGR 245, EGR 246L, EGR 386

6. Required Computer Engineering Courses .................. 45 hours
   ECE 202. Signals and Systems
   CSC 204. Programming I
   CSC 205. Programming II
   CSC 245. Data Structures and Algorithms
   CSC 480. Software Engineering
   ECE 322. Digital Logic and Computer Organization
   ECE 323. Microcomputer Fundamentals
   ECE 424. Digital Design with VHDL
   ECE 425. Computer Architecture
   ECE 426. Embedded Computer Systems
   ECE 455. Computer Networks
   ECE 4xx. ECE Technical Elective
   ECE 4xx. Technical Elective
   ECE 481. Introduction to Senior Design
   ECE 485. Computer Design Exhibit I
   ECE 486. Computer Design Exhibit II

Total Semester Hours Required for BSE in
   Computer Engineering ........................................ 129 hours

Additional hours required for the Master of Science in Engineering degree
   (see below) ...................................................... 30 hours

Total Semester hours required for BSE degree plus
   MSE degree .................................................. 159 hours

Computer Engineering

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<td>4</td>
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<td><strong>Total:</strong> 15</td>
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**Senior Year (Standard BSE program)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<th>Spring Semester</th>
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<tbody>
<tr>
<td>CSC 840</td>
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<td>3</td>
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<tr>
<td>ECE 340</td>
<td>Electromagn Appl</td>
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<td>3</td>
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<td>EGR 312</td>
<td>Engineering Economy</td>
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<tr>
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<tr>
<td>XXX</td>
<td>HU/SS/GA IV</td>
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<table>
<thead>
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<th>Course Title</th>
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<th>Spring Semester</th>
</tr>
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<tr>
<td>ECE 455</td>
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<td>ECE 486</td>
<td>Engr Design Exhibits II</td>
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<td>ECE 4xx</td>
<td>ECE Tech Elective</td>
<td>3</td>
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<td>ECE 4xx</td>
<td>Tech Elective</td>
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<td>EGR 400</td>
<td>Senior Level Exhibit</td>
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<td>Computer Architecture</td>
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<td><strong>Total:</strong> 15</td>
<td><strong>Total:</strong> 6</td>
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</tbody>
</table>

**Technical Electives**

* Technical electives are chosen with the approval of the student’s faculty advisor and program director for the purpose of advancing the student’s academic goals. Technical electives must be selected from a list provided by the computer engineering faculty, and must provide depth and appropriate design content in computer engineering areas.

**Integrated Bachelor of Science in Engineering /Master of Science in Engineering in Computer Engineering**

Students who complete the first three years of the bachelor’s program in computer engineering or in any engineering specialization with appropriate computer courses included and with grades which qualify them for graduate study may directly pursue their master of science in engineering degree during their fourth and fifth years of study. A full calendar year, including one summer term, is needed to complete the master of science in engineering degrees offered in the ECE department. See the graduate studies section near the back of this bulletin for more information about the integrated master of science in engineering programs.
## Senior Year (Integrated Bachelor of Science in Engineering/Master of Science in Engineering students only)

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 340 Electromagn Appl.</td>
<td>ECE 455 Computer Networks</td>
</tr>
<tr>
<td>ECE 485 Engr Design Exhibits I</td>
<td>ECE 486 Engr Design Exhibits II</td>
</tr>
<tr>
<td>ECE 6xx Grad Course</td>
<td>ECE 4xx ECE Technical Elective*</td>
</tr>
<tr>
<td>EGR 312 Engineering Economy</td>
<td>SSE 656 Java Design II</td>
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<tr>
<td>ECE 4xx ECE Technical Elective*</td>
<td>EGR 400 Senior Design Exhibit</td>
</tr>
<tr>
<td>XXX HU/SS/GA III</td>
<td>ECE 425 Computer Architecture</td>
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</table>

<table>
<thead>
<tr>
<th>Credits</th>
<th>Credits</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>15</td>
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## Graduate Year (Integrated Bachelor of Science in Engineering/Master of Science in Engineering students only)

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 6xx Grad ECE Course</td>
<td>ECE 6xx Grad Course</td>
</tr>
<tr>
<td>SSE 6xx Grad SSE Course</td>
<td>ECE 6xx Grad Course</td>
</tr>
<tr>
<td>ECE 5/6xx Grad Course</td>
<td>ECE 6xx Grad Course</td>
</tr>
<tr>
<td>ECE 4xx ECE Tech Elective</td>
<td>XXX HU/SS/GA IV</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

## Summer Term (Integrated Bachelor of Science in Engineering/Master of Science in Engineering students only)

<table>
<thead>
<tr>
<th>ECE 6xx Grad Course</th>
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<tbody>
<tr>
<td>ECE 6xx Grad Course</td>
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</table>

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>6</td>
</tr>
</tbody>
</table>

See graduate section of this *Bulletin* for more information about the Integrated Bachelor of Science in Engineering/Master of Science in Engineering Program.

## Electrical Engineering Specialization

The professional activities of electrical engineers directly affect the lives of most of the world’s population every day. They are responsible for the design and application of digital computers, design and development of telephone networks and communication systems, radio and television transmitters and receivers, automatic control systems, electric power generation and distribution systems, and a wide variety of other electrical and electronic systems. Within the broad scope of these systems, the electrical engineer is concerned with a challenging and diverse array of design and development problems, and is in fact functioning as a prime mover in the “high tech” age.

Electrical engineers design minuscule semiconductor integrated circuits which contain many thousands of elementary devices. They design systems for automatically controlling mechanical devices and a variety of processes. They are responsible for the design of satellite communication links as well as biomedical instrumentation for patient monitoring systems for hospitals and medical research. The development of the microprocessor has expanded the opportunities for electrical engineers to improve the design of familiar products since these devices are now incorporated into automobiles, consumer and office products, entertainment systems, communication systems and a vast variety of test and measurement instruments and machine tools.
Academic Requirements for BSE, Electrical Engineering Specialization

The electrical engineering specialization builds upon the base provided by the engineering core and general studies. Beyond this base, the curriculum is composed of two parts; electrical engineering required courses and technical electives. Approved technical elective courses enable students to deepen their background in electrical and computer engineering and to expand their knowledge in related fields. Successful completion of the curriculum leaves the student prepared to embark on a career in electrical engineering or to pursue advanced education in graduate school. The attention of the student is directed to the retention, graduation and academic requirements of the University and the School of Engineering. Required electrical engineering courses require a C or better in prerequisites which include: EGR 244, EGR 245, ECE 202, and ECE 311. Elective electrical engineering courses also required a C or better in the applicable prerequisites. Electrical engineering students must complete the key foundation courses in the discipline before enrolling in senior design, ECE 487.

Departmental Honors for BSE in Electrical Engineering

Departmental Honors will be conferred each year by the electrical and computer engineering faculty upon the graduating senior student specializing in electrical engineering who has best distinguished himself or herself academically.

The Dixie Crow Educational Foundation Scholarship

The Dixie Crow Educational Foundation Scholarship program provides financial awards for selected undergraduate students of the Mercer School of Engineering, with a preference for those who are pursuing a degree in electrical engineering and are residents of the Middle Georgia area. These scholarships are renewed for three additional years provided the student meets the academic requirements required for renewal, enrolls full-time, and maintains continuous enrollment. The Dixie Crow Chapter of the National Old Crows Association is an electronic warfare engineering organization.

The Electrical Engineering BSE Curriculum

The electrical engineering curriculum is designed to provide a foundation for a student to pursue a career in engineering with expertise in electrical engineering and possibly special expertise in one or more of its sub-fields. The program puts emphasis on learning to function within teams of professionals whose members are pursuing a common engineering goal, and on communicating effectively with both technical and non-technical audiences. Graduates of the bachelors degree program are competent engineers who are prepared to pursue a broad variety of professional avenues.

Bachelor of Science in Engineering (BSE) Degree Requirements: Electrical Engineering Specialization

1. Humanities, Social Sciences, Global Awareness ...............16 hours
   FYS 101, HU/SS/GA 12

2. Math/Science (plus embedded math topics) .................31 hours
   MAT 191, MAT 192, EGR 252, MAT 293, MAT 330, ECE 401, CHM 111,
   PHY 161, PHY 121L, PHY 162, PHY 162L
3. Other ................................. 1 hour
   UNV 101. The Freshman Experience

4. Non-Electrical Engineering Core ............................. 23 hours
   EGR 107, EGR 108, EGR 232, EGR 233, EGR 235, EGR 312, TCO 341, Technical Elective

5. Electrical Engineering Oriented Core ........................ 14 hours
   EGR 126, EGR 244, EGR 245, EGR 246L, EGR 386

6. Required Electrical Engineering Courses ...................... 44 hours
   ECE 288. Introduction to Electrical Engineering
   ECE 202. Signals and Systems
   ECE 311. Electronics I
   ECE 312. Electronics II
   ECE 312L. Electronics II Laboratory
   ECE 322. Digital Logic and Computer Organization
   ECE 323. Microcomputer Fundamentals
   ECE 323L. Microcomputer Laboratory
   ECE 341. Electromagnetic Field Theory
   ECE 405L. Senior Capstone ECE Laboratory
   ECE 431. Analog and Digital Signal Processing
   ECE 451. Communications I
   ECE 451L. Communications Laboratory
   ECE xxx. Senior Design Elective
   ECE xxx. Senior Design Elective
   ECE xxx. Senior Design Elective
   ECE xxx. Senior Design Elective
   ECE 480. Introduction to Senior Design
   ECE 487. Senior Design Project I
   ECE 488. Senior Design Project II

Total Semester Hours Required for the BSE degree .............. 129 hours
Additional Hours required for Master of Science in Engineering degree
(see below) ............................................. 30 hours

Total Semester Hours Required for BSE degree plus MSE
   degree .............................................. 159 hours

**Electrical Engineering**

### Freshman Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
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<tbody>
<tr>
<td>CHM 111 General Chemistry</td>
<td>EGR 107 Intro to Engr Design</td>
</tr>
<tr>
<td>EGR 126 Intro to Prob Solving</td>
<td>EGR 108 Professional Practices</td>
</tr>
<tr>
<td>FYS 101 First Year Seminar</td>
<td>MAT 192 Calculus II</td>
</tr>
<tr>
<td>MAT 191 Calculus I</td>
<td>PHY 161 General Physics I</td>
</tr>
<tr>
<td>UNV 101 Freshman Experience</td>
<td>PHY 121L General Phys I Lab</td>
</tr>
<tr>
<td></td>
<td>XXX HU/SS/GA I</td>
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<tr>
<td></td>
<td>15 3 16</td>
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### Sophomore Year

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<tr>
<td>EGR 232 Statics/Solid Mech</td>
<td>ECE 202 Signals and Systems</td>
</tr>
<tr>
<td>EGR 244 Electrical Fund I</td>
<td>EGR 233 Dynamics</td>
</tr>
<tr>
<td>MAT 330 Intro to Diff Eqns</td>
<td>EGR 235 Thermodynamics</td>
</tr>
<tr>
<td>PHY 162 General Physics II</td>
<td>EGR 245 Electrical Fund II</td>
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<td>PHY 162L General Phys II Lab</td>
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<td>XXX HU/SS IV</td>
<td>EGR 252 Appl of Engr Math</td>
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### Junior Year

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<tr>
<td>ECE 311 Electronics I</td>
<td>ECE 312 Electronics II</td>
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<tr>
<td>ECE 322 Digital Logic</td>
<td>ECE 312L Electronics II Lab</td>
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<tr>
<td>ECE 431 Analog/Digital Sig Proc</td>
<td>ECE 323 Microcomputer Fund</td>
</tr>
<tr>
<td>EGR 386 Engr Sys Analysis</td>
<td>ECE 341 Emag Field Theory</td>
</tr>
<tr>
<td>MAT 293 Multivariable Calculus</td>
<td>ECE 480 Intro to Senior Design</td>
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<td>ECE 340 Electromagnetic Applic</td>
<td>EGR 312 Engineering Economy</td>
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<td>TCO 341 Tech Communication</td>
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### Senior Year (Standard BSE program)

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<tr>
<td>ECE 451 Communications I</td>
<td>ECE 488 Eng Design Exhib II</td>
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<tr>
<td>ECE 451L Comm Lab</td>
<td>ECE 4xx ECE Technical Elect*</td>
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<td>ECE 487 Eng Design Exhibit I</td>
<td>ECE 4xx ECE Technical Elect*</td>
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<tr>
<td>ECE 4xx ECE Technical Elect*</td>
<td>ECE 452 Digital Comm &amp; Stoc</td>
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<td>EGR 400 Graduation Exhibit</td>
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<td>XXX Technical Elective*</td>
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<th>Total</th>
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<tbody>
<tr>
<td>12 9 15</td>
</tr>
</tbody>
</table>

* Technical Electives

Technical electives are chosen with the approval of the student, faculty advisor and department chairman for the purpose of advancing the student's academic goals. The three ECE Technical Electives are selected from a list of ECE courses provided by the electrical and computer engineering department. Two additional technical electives are selected from a list of engineering, mathematics, computer science, chemistry, and physics courses provided by the electrical and computer engineering department.

### Integrated Bachelor of Science in Engineering/Master of Science in Engineering, Electrical Engineering Specialization

Students who complete the first three years of the bachelor's program in electrical engineering with grades which qualify them for graduate study may directly pursue their master of engineering degree during their fourth and fifth years of study. A full calendar year, including one summer term, is needed to complete the master of engineering degrees offered in the ECE department. See the graduate studies section near the back of this catalog for more information about the integrated master of engineering programs.
### Senior Year (Integrated Bachelor of Science in Engineering/Master of Science in Engineering students only)

<table>
<thead>
<tr>
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<th>Course Title</th>
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<th>Credits</th>
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<td>Spring Semester</td>
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<td>ECE Technical Elect*</td>
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</tr>
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<td>ECE Technical Elect*</td>
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<td>ECE 6xxx</td>
<td>Grad Course</td>
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<td>EGR 400</td>
<td>Graduate Exhibit</td>
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</table>

| Total Credits | 12 | 9 | 15 |

### Graduate Year (Integrated Bachelor of Science in Engineering/Master of Science in Engineering students only)

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<th>Course Title</th>
<th>Credits</th>
<th>Credits</th>
<th>Credits</th>
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<td>Spring Semester</td>
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</tr>
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<td>ECE 6xx</td>
<td>Grad Course</td>
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<td>ECE 5/6xx</td>
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<td>HU/SS/GA</td>
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| Total Credits | 12 | 0 | 12 |

### Summer Term (Integrated Bachelor of Science in Engineering/Master of Science in Engineering students only)

<table>
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</table>

| Total Credits | 6 | 0 | 6 |

See graduate section of this *Bulletin* for more information about the Integrated Bachelor of Science in Engineering/Master of Science in Engineering Program.

### ECE Courses

**202. Signals and Systems** (3-0-3)

Prerequisites: C or better in EGR 244, MAT 330.

Transform analysis of circuits and systems; frequency-domain analysis of circuits; frequency selective filters; Bode plots; two-port networks; active filters; Fourier Series and Fourier Transform; linear time-invariant systems; impulse response and convolution.

**311. Electronics I** (3-0-3)

Prerequisites: C or better in ECE 202, C or better in EGR 245.

Introduction to the characterization of passive and active semiconductor devices and applications in electrical circuits. Focus on diodes, junction and field effect transistors, integrated circuit operational amplifiers, and on their typical uses in amplifiers, ac/dc conversion, switching, and other linear and nonlinear systems. Features extensive use of simulation tools.

**312. Electronics II** (2-0-2)

Prerequisite: C or better in ECE 311.

Corequisite: ECE 312L.

Continuation of the study of characteristics and applications of semiconductor devices electronic circuits. Extension to power devices, multi-component integrat-
ed circuits, optoelectronic devices, and to oscillators and filters at video and RF frequencies. Focus hands-on laboratory experiences and the circuit design process.

312L. Electronics II Laboratory (0-3-1)
Corequisite: ECE 312.
Hands-on laboratory experiences with a focus on the circuit design process.

322. Digital Logic and Computer Organization (3-0-3)
Prerequisite: C or better in EGR 244.
Engineering approaches to design and analysis of digital logic circuits. Number systems, Boolean algebra, logic gates, truth tables, Karnaugh maps, combinational circuits, sequential circuits, PLDs in digital design, computer organization and operation, microprocessors and microcontrollers.

323. Microcomputer Fundamentals (2-3-3)
Prerequisite: C or better in ECE 322.
Corequisite: ECE 323L.
A study of the basic principles related to the design and interfacing of microcomputer systems. Designing microprocessor based CPU modules, EPROM, SRAM, and DRAM memory interfaces. Address decoding techniques, timing requirements, adding wait states for slow memory systems. Concepts related to parallel I/O, serial I/O, and Programmed I/O. Introduction to hardware interrupts and DMA. Embedded systems. Experiments and design projects related to digital logic circuits, microprocessors, programming, and interfacing are an important part of the course.

323L. Microcomputer Fundamentals Lab (0-3-1)
Corequisite: ECE 323.
Experiments and design projects related to digital logic circuits, microprocessors, embedded systems, programming and interfacing.

340. Electromagnetic Applications (3-0-3)
Prerequisites: Phy 162, C or better in EGR 245.
Applications of electromagnetic field theory and principles to the design of modern electronic systems. Emphasis on applications in high-frequency analog and high-speed digital systems. Time-varying fields and Maxwell’s equations, uniform plane waves, transmission lines, microwaves, and antennas.

341. Electromagnetic Field Theory (3-0-3)
Prerequisite: PHY 162.
Corequisite: MAT 293.
An introduction to the theory of electromagnetic fields with emphasis on time-varying applications. Vector calculus, Maxwell’s equations, uniform plane waves, transmission lines, microwaves, and antennas.

410/510*. Analog Filter Design (3-0-3)
Prerequisite: C or better in ECE 202, C or better in ECE 311.
Principles of analog active and passive filter design. Network functions. Time and frequency domain approximations.

411/511*. Power Electronics (3-0-3)
Prerequisite: C or better in ECE 312.
Principles of diode rectifiers and controlled rectifiers, inverters, voltage regulators and large-signal discrete and integrated-circuit power amplifiers.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>424/524*</td>
<td>Digital Design with VHDL</td>
<td>(3-0-3)</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: C or better in ECE 323.</td>
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<tr>
<td></td>
<td>VHDL is introduced as a hardware design language for the design of large scale digital systems. Specific targets include FPGA, MACH, and other VLSI programmable chips.</td>
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</tr>
<tr>
<td>425/525*</td>
<td>Introduction to Computer Architecture</td>
<td>(4-0-4)</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: C or better in ECE 323.</td>
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</tr>
<tr>
<td></td>
<td>Concepts of computer architecture including pipelining, cache memory, memory management, disk management systems, computer arithmetic, and instruction set architecture. Design of microprogrammed and hardwared controllers.</td>
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</tr>
<tr>
<td>426/526*</td>
<td>Embedded Computer Systems</td>
<td>(2-3-3)</td>
</tr>
<tr>
<td></td>
<td>Prerequisites: C or better in ECE 323, C or better in CSC 204 and CSC 205.</td>
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<tr>
<td></td>
<td>Design of computer systems as components of larger engineering systems. Emphasis in on real-time applications. Integration of high-level and low-level software components in a real-time environment.</td>
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</tr>
<tr>
<td>431/531*</td>
<td>Analog and Digital Signal Processing</td>
<td>(3-0-3)</td>
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<tr>
<td></td>
<td>Prerequisite: C or better in ECE 202.</td>
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<tr>
<td></td>
<td>Fundamentals of signal processing in both analog and digital domains, emphasizing the relationships between the two. Review of Fourier analysis and Bode plot. Analog filter design techniques: Butterworth, Chebyshev, and elliptic; implementation of analog filters using active circuits. Sampling and mapping of analog frequency to digital frequency. Basic topics in digital signal processing: difference equations, impulse response, z transform, IIR and FIR digital filters, discrete-time Fourier Transform and DFT.</td>
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</tr>
<tr>
<td>432/532*</td>
<td>Digital Signal Processing</td>
<td>(3-0-3)</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: C or better in ECE 431.</td>
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<td>Introduction to DSP, with emphasis on applications: z-transform, frequency-selective digital filters (Butterworth, Chebyshev, and elliptic), filter structures, transient and steady-state response of filters, DFT, FFT, windowing effects, frequency resolution. Use of Matlab and Simulink to implement and analyze digital filters.</td>
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<tr>
<td>435/535*</td>
<td>Introduction to Data Communications</td>
<td>(3-0-3)</td>
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<td></td>
<td>Prerequisite: Senior or graduate standing in electrical or computer engineering. Mathematics and techniques for common methods of both lossless and lossy compression of digital data: compression of one-dimensional and two-dimensional signals; quantization; predictive coding; transform coding; sub-band coding.</td>
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<tr>
<td>441/541*</td>
<td>Fiber Optic Communications</td>
<td>(3-0-3)</td>
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<td>Prerequisite: C or better in ECE 341.</td>
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<td>Introduction to optics and optical systems as applied to modern engineering problems. Principles and applications of fiber optic communication systems. Optical communications channel design. Fiber optic sensing. Optic fiber waveguides. Traveling-wave amplification and optical resonators (Lasers).</td>
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<tr>
<td>442/542*</td>
<td>Electromagnetic Compatibility</td>
<td>(4-0-4)</td>
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<td>Prerequisite: C or better in ECE 340.</td>
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<td>Design of electronic systems to prevent interference and to satisfy governmental regulations on radiated and conducted emissions. Interference scenarios, EMC requirements on electronic systems, non-ideal behavior of components, signal spectra, radiated emissions, conducted emissions, crosstalk, shielding.</td>
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</tbody>
</table>
443/543*. Antenna Theory (3-0-3)
Prerequisite: C or better in ECE 341.
Introduction to the theory and applications of antennas. Antenna fundamentals, patterns, directivity, gain, impedance, polarization. Electrically small dipoles and loops, arrays, line sources, resonant antennas, and broadband antennas.

445/545*. Transmission Lines (3-0-3)
Prerequisite: C or better in ECE 340.
Advanced study of transmission line theory in the design of high-frequency analog and high-speed digital system. Emphasis on electrically-long lines. Signal integrity in high-speed digital interconnects, crosstalk in multi-conductor transmission lines. Extensive use of computer simulation tools.

451. Communication Systems I (3-0-3)
Prerequisite: C or better in ECE 202, EGR 252.
Corequisites: ECE 451L.
Review of Fourier analysis, linear channels, and linear distortion, linear modulation schemes, DSBTC, DSBSC, SSB, VSB, frequency and phase modulation, radio broadcasting, discrete probability, random variables, probability distribution functions, expected values and correlation.

451L. Communications Lab (0-3-1)
Corequisite: ECE 451.
Software and hardware tools for communication/telecommunication systems experimentation and design, RF system design for communications, simulation of complex communication links.

452/552*. Digital Communications (3-0-3)
Prerequisite: C or better in ECE 451.
Stochastic processes, stationary and ergodic processes, autocorrelation function and power spectral density, linear channels and random input, white noise and AWGN channels, sampling theorem and pulse code modulation, Nyquist criteria, binary modulation schemes and their performance in AWGN channels, coherent and noncoherent detection, information and entropy, source coding theorem, models for communication channels, Shannon channel coding and channel capacity theorems, introduction to error control coding.

455/555*. Computer Networks (3-0-3)
Prerequisite: C or better in ECE 323.

461/561*. Feedback Control Systems: Digital Control (3-0-3)
Prerequisite: C or better in EGR 386.
Control system analysis and design with emphasis on digital controllers and additional topics include multi-input/multi-output systems and non-linear controllers.

471/571*. Power Systems Fundamentals (3-0-3)
Prerequisites: C or better in ECE 202, C or better in EGR 245.
Basic power system analytical concepts, three-phase systems, phasors, impedances, steady-state network analysis, normalization, transmission lines, transformers, synchronous machines, power flow.

480. Introduction to Senior Design for Electrical Engineers (0-1-0)
Corequisites: TCO 341, ECE 311, ECE 323 and EGR 386.
Course will provide guidance for the selection of team members and topic for the senior design project to be completed in ECE 487 and ECE 488. To successfully complete the course, a student must belong to a team (3 to 4 persons) and briefly outline the project goals to be implemented in ECE 487 and ECE 488. A seminar series will be conducted to facilitate student introduction to potential industrial clients and projects. Seminar attendance is required to obtain a satisfactory course grade. This course is graded S/U.

**481. Introduction to Senior Design for Computer Engineers** (0-1-0)
Corequisites: TCO 341, ECE 323, EGR 202, EGR 386, and CSC 205.
Course will provide guidance for the selection of team members and topic for the senior design project to be completed in ECE 485 and ECE 486. To successfully complete the course, a student must belong to a team (3 to 4 persons) and briefly outline the project goals to be implemented in ECE 485 and ECE 486. A seminar series will be conducted to facilitate student introduction to potential industrial clients and projects. Seminar attendance is required to obtain a satisfactory course grade. This course is graded S/U.

**485. Computer Engineering Design Exhibit I** (0-6-2)
Prerequisites: TCO 341, ECE 202, ECE 323, ECE 481, EGR 386 and CSC 205. Must have completed all required 100 and 200 level engineering, mathematics, and science courses.
Multi-disciplinary design projects with substantial Computer Engineering content. Small groups design, build, and test realistic engineering systems under faculty supervision. Projects include safety, economic, environmental, and ethical considerations and require written and oral reports.

**486. Computer Engineering Design Exhibit II** (0-6-2)
Prerequisite: ECE 485.
Continuation of ECE 485 multi-disciplinary design projects with substantial Computer Engineering content. Small groups design, build, and test realistic engineering systems under faculty supervision. Projects include safety, economic, environmental, and ethical considerations and require written and oral reports.

**487. Electrical Engineering Design Exhibit I** (0-6-2)
Prerequisites: TCO 341, ECE 311, ECE 323, ECE 480, and EGR 386. Must have completed all required 100 and 200 level engineering, mathematics, and science courses.
Multi-disciplinary design projects with substantial ECE content. Small groups design, build, and test realistic engineering systems under faculty supervision. Projects include safety, economic, environmental, and ethical considerations and require written and oral reports.

**488. Electrical Engineering Design Exhibit II** (0-6-2)
Prerequisite: ECE 487.
Continuation of ECE 487 multi-disciplinary design projects with substantial ECE content. Small groups design, build, and test realistic engineering systems under faculty supervision. Projects include safety, economic, environmental, and ethical considerations and require written and oral reports.

SPECIAL COURSES: ECE 491, 492, 493, 498, 499 for variable credit. May be repeated for credit with approval of academic advisor and department chair.

**ECE 491-492-493. Special Topics** (1-6 hours)
Environmental Engineering Specialization

Environmental consciousness and safety have surfaced as primary initiatives during the last quarter century. The negative effects of modern society on the earth’s natural environment is the result of numerous man-made environmental calamities. The prevention of future environmental accidents, reduction of pollutants into the environment, and clean up of priority containment sites have come to be recognized initiatives in virtually all nations.

Environmental engineers translate physical, chemical, biological, and engineering sciences into processes and systems for the protection of the public's health and safety. Environmental engineers are charged with implementing and designing systems that meet environmental standards and control pollution in water, air, and on land. Environmental engineers consult with regional authorities in the site selection, design, construction, and management of secure landfills; potable water treatment facilities, and wastewater reclamation plants. Environmental engineers assess the danger of groundwater contamination and devise plans to minimize ecological risk. Environmental engineers study atmospheric conditions and the effects of air pollutants on the surrounding community. Environmental engineers recommend process improvements to reduce the amount of spent/utilized industrial waste.

Employment opportunities for environmental engineering graduates are diverse. Major employers include consulting engineering firms, industrial facilities, local, state and federal governments, as well as regulatory agencies.

Academic Requirements for BSE, Environmental Engineering Specialization

In addition to the retention, graduation, and academic requirements of Mercer University and the School of Engineering, all environmental engineering students must obtain a grade of “C” or better in EVE 290, EVE 384, and EVE 405. Also, environmental engineering students must maintain a Mercer grade point average of at least 2.0 in each of the following four course categories that applies toward the Bachelor of Science in Engineering degree: 1) required science and math courses; 2) required humanities, social science and global awareness courses; 3) engineering core courses and; 4) environmental engineering courses and technical electives.

Departmental Honors for BSE in Environmental Engineering

Each year, the environmental engineering faculty determines the graduating environmental engineering student who has best distinguished himself or herself, and designates this student as the Dr. Robert Rozett Outstanding Graduate in Environmental Engineering.

The Environmental Engineering BSE Curriculum

The goal of the BSE program in environmental engineering is to produce grad-
uates who are prepared for employment in professional practice or for graduate study. There are three primary objectives of the environmental engineering program. Graduates of the environmental engineering program will be able to:

1. Analyze environmental engineering problems related to water/wastewater treatment, air pollution, and solid/hazardous waste issues.
2. Design solutions and engineering systems using appropriate engineering analysis and evaluation of alternatives to minimize detrimental effects on the environment.
3. Communicate effectively with technical and nontechnical audiences in both written and oral form.

The natural environment in itself represents a complex and interactive biological, chemical, and physical system. Moreover, engineering strategies that operate in concert with environmental systems rely on application of fundamental engineering expertise coupled with specific environmental engineering practice. Environmental engineering students study in the basic sciences, mathematics, and traditional engineering so they can apply engineering analysis and design to environmental systems. Beyond this they study well-established environmental engineering topics including water and wastewater treatment, air pollution control, solid waste systems, public health, atmospheric chemistry, and bioremediation. Hands-on environmental engineering is accomplished through laboratory exercises and experiences. Opportunities for environmental engineering students to deepen and broaden their technical education exist through several avenues.

**Bachelor of Science in Engineering (BSE) Degree Requirements: Environmental Engineering Specialization**

1. UNV 101 .................................................................1 hour
2. FYS 101 .................................................................4 hours
3. Engineering Core ..................................................56 hours
4. Humanities, Social Sciences, Global Awareness ..............12 hours
5. Other Required Courses outside of EVE .....................16 hours
   CHM 111. General Chemistry I
   CHM 112. General Chemistry II

   (One of the following two courses is required)
   BIO 205. Introduction for Biomedical Engineers
   BIO 210. Introduction to Biology I

   (One of the following three courses is required)
   ESC 110. Meteorology
   ESC 210. Environmental Geology
   ESC 220. Oceanography ...........................................
   ENV 330. Geographic Information Systems

6. Required Environmental Engineering (EVE) courses ...........37 hours
   EVE 290. Intro to Environmental Engineering
   EVE 384. Engineering Hydraulics
   EVE 385. Engineering Hydrology
   EVE 402. Air Pollution Generation and Control
   EVE 403. Atmospheric Chemistry I
7. Technical Electives .............................................3 hours

Technical electives are 300/400 level advanced engineering, science and math courses chosen with the approval of the student, faculty advisor and department chair for the purpose of providing additional depth in areas of special interest to the student.

Total Semester Hours Required ..................................129 hours

### Environmental Engineering

#### Freshman Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>CHM 111 General Chemistry I</td>
<td>EGR 107 Intro to Engr Design</td>
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<td>EGR 126 Intro to Prob Solving</td>
<td>EGR 108 Professional Practices</td>
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<tr>
<td>FYS 101 First Year Seminar</td>
<td>MAT 192 Calculus II</td>
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<tr>
<td>MAT 191 Calculus I</td>
<td>CHM 112 General Chemistry II</td>
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<tr>
<td>UNV 101 Freshman Experience</td>
<td>XXX HU/SS/GA I</td>
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#### Sophomore Year

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<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>EGR 232 Statics/Solid Mech</td>
<td>EGR 233 Dynamics</td>
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<tr>
<td>EGR 244 Electrical Fund I</td>
<td>EGR 235 Thermodynamics</td>
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<tr>
<td>EVE 290 Intro to EVE</td>
<td>EGR 245 Electrical Fund II</td>
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<tr>
<td>MAT 330 Intro to Diff Eqns</td>
<td>EGR 246L Electrical Fund Lab</td>
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<tr>
<td>PHY 161 General Physics I</td>
<td>EGR 252 Appl of Engr Math</td>
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<tr>
<td>PHY 121L General Phys I Lab</td>
<td>PHY 162 General Physics II</td>
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<td>PHY 162L General Phys II Lab</td>
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#### Junior Year

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<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tr>
<td>EGR 312 Engineering Economy</td>
<td>EGR 386 Engr Sys Analysis</td>
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<tr>
<td>EVE 384 Engineering Hydraulics</td>
<td>EVE 385 Engineering Hydrology</td>
</tr>
<tr>
<td>TCO 341 Tech Communication</td>
<td>EVE 405 Des/Anal/WW Sys</td>
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<tr>
<td>XXX Biological/Earth Science</td>
<td>EVE 420 Solid Waste Mgt</td>
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<tr>
<td>XXX HU/SS/GA II</td>
<td>EVE 480 Intro to Senior Design</td>
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<td>XXX Biological/Earth Science</td>
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### Senior Year

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<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>EVE 402 Air Pollution Control 3 0 3</td>
<td>EVE 403 Atmospheric Chemistry I 3 0 3</td>
</tr>
<tr>
<td>EVE 406 Des/Anal/Water Sys 3 0 3</td>
<td>EVE 430 Bioremediation 3 0 3</td>
</tr>
<tr>
<td>EVE 486 Public Health 2 0 2</td>
<td>EVE 445L Environmental Lab 0 3 1</td>
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<tr>
<td>EVE 487 Eng Design Exhibit I 0 6 2</td>
<td>EVE 488 Eng Design Exhib II 0 6 2</td>
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<tr>
<td>EVE 490 Groundwater Hydrology 3 0 3</td>
<td>EVE 4xx Technical Elective I 3 0 3</td>
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<tr>
<td>XXX HU/SS/GA III 3 0 3</td>
<td>XXX HU/SS/GA IV 3 0 3</td>
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### EVE Courses

**290. Introduction to Environmental Engineering** (3-0-3)
Prerequisites: CHM 111 and MAT 191.
An overview of the major topics in environmental engineering, including water quality and treatment, solid and hazardous waste management, and air pollution; mass and energy balance principles; pollutant fate and transport characteristics; ethical implications of global business practices. Integrated laboratory experiences will introduce the principles and techniques used to determine the physical and chemical characteristics of water and wastewater. Labs will compliment topics covered during lecture.

**384. Engineering Hydraulics** (3-0-3)
Prerequisite: EVE 290.
Introduction to hydrostatics, fluid motion, continuity, momentum, and energy applications. Applications to pipe networks and hydraulic systems. Modeling of water distribution systems and wastewater collection systems.

**385. Engineering Hydrology** (3-0-3)
Prerequisite: EVE 290.
Precipitation, evaporation, consumptive use, infiltration, stream flow, flood routing; statistical analysis of hydrological data, flood and drought forecasting, risk analysis; and introduction to urban drainage design; and modeling of hydrologic systems.

**402. Air Pollution Generation and Control** (3-0-3)
Prerequisite: EVE 290.
A study of air pollution, including measurements, causes and effects on the environment. Comparison of chemical and particulate pollution from various sources, natural and chemical sources. Energy and meteorological relationships of the atmosphere in relation to the distribution of pollutants. Evaluation and design of low emission systems and components. Discussion of practical solutions and governmental regulations for the present and future. Plant trips and design projects.

**403. Atmospheric Chemistry I** (3-0-3)
Prerequisite: EVE 402.
An introduction to atmospheric chemical transformations; atomic structure and chemical bonding; thermodynamics, gas-phase kinetics, and photochemistry; tropospheric processes; stratospheric processes.

**405. Design and Analysis of Wastewater Systems** (3-0-3)
Prerequisites: EVE 290 and EVE 384.
Analysis and design of wastewater treatment systems beginning with an overview of the sources of water pollution and discussion of wastewater characteristics.
Fundamental theory and design of conventional wastewater treatment facilities is presented followed by the principles used to design advanced wastewater treatment facilities. A design project is required along with a plant trip.

406. Design and Analysis of Water Systems (3-0-3)
Prerequisites: EVE 290 and EVE 384.
Analysis and design of water treatment systems beginning with an overview of the sources of water and discussion of water quality parameters. Fundamental theory and design of conventional water treatment facilities is presented followed by the principles used to design advanced water treatment facilities. A design project is required along with a plant trip.

410. Process Chemistry (3-0-3)
Prerequisites: EVE 290 or consent of instructor.
A study of aqueous processes occurring in natural waters and in water and wastewater treatment systems. It is also intended to give a comprehensive knowledge of the factors that affect these processes. Topics covered include chemical thermodynamics and equilibrium, kinetics, acid-base chemistry, the carbonate system, precipitation and dissolution, complexation, and redox chemistry. Four complimentary laboratory experiences will be conducted.

420. Solid Waste Management (3-0-3)
Prerequisite: CHM 112 and EVE 290.
Chemical, mechanical and biological equipment and instrumentation for the processing and disposal of solid wastes are studied and designed. Handling and recycling of conventional, household and industrial wastes, including energy conversion. Special requirements for hazardous and toxic wastes. Economic values and costs impacts. Government and EPA regulations regarding generation and disposal of wastes on local, state and national level. Plant trips and design projects.

421. Advanced Solid and Hazardous Waste Management (3-0-3)
Prerequisite: EVE 420.
Advanced management concepts for solid and hazardous wastes including thermal, chemical, biological treatment, waste-to-energy, and resource recovery systems.

430. Bioremediation (3-0-3)
Prerequisite: EVE 405.
Introduction to the underlying microbial physiological/biochemical capabilities responsible for contaminant transformation, mathematical descriptions of biological processes, applications and limitations of microbial reactors, applications and limitations of in-situ bioremediation techniques currently used in field-scale remediation, and current and future directions of bioremediation research and field applications.

445L. Senior Environmental Engineering Laboratory (0-3-1)
Prerequisites: Senior standing; EVE 402; EVE 405 and EVE 420.
An introduction to environmental laboratory analyses, including those for determining physical, chemical, and microbiological characteristics of water and wastewater. Design, conduct, and analyze experiments using modern techniques, skills and tools. Unit operations commonly employed in industry will be evaluated.

460. Environmental Law, Regulations and Contracts (3-0-3)
Prerequisite: Senior standing or consent of instructor.
An introduction to the American legal system and the public policy process. A discussion of relevant laws and regulations pertaining to environmental ordinances. Definition of environmental pollutants and relevant state and Federal acts under which they are regulated. A study of the policy making and implementation governmental units that deal with environmental issues. Technical and historical foundations of environmental policies and law. Guest lectures from law offices, industry and government. Engineering contracts, procurement and bidding and resident inspection discussed.

**480. Introduction to Senior Design**  
(Corequisites: TCO 341, EVE 405 and EVE 420.)

Course will provide guidance for the selection of team members and topic for the senior design project to be completed in EVE 487 and EVE 488. To successfully complete the course, a student must belong to a team (3 to 4 persons) and briefly outline the project goals to be implemented in EVE 487 and EVE 488. A seminar series will be conducted to facilitate student introduction to potential industrial clients and projects. Seminar attendance is required to obtain a satisfactory course grade. This course is graded S/U.

**485. Environmental and Occupational Health Assessment**  
(Pre-requisites: Senior Standing; EGR 252, EVE 405 and EVE 420. Corequisite: EVE 402.)

Basic concepts of risk assessment applied to water, airborne, and toxic metal pollutants; introduction to toxicology; introduction to epidemiology; OSHA and Workers' Compensation laws.

**486. Public Health**  
(Pre-requisites: Senior Standing; EGR 252, EVE 405 and EVE 420. Corequisite: EVE 402.)

Public health engineering principles for protection against biological and chemical hazards. Emphasis on major communicable diseases that plague mankind, organisms that cause them, routes of transmission, and engineering methods of control. Appropriate control methods, for rural areas and developing countries.

**487. Engineering Design Exhibit I**  
(Pre-requisites: TCO 341, EVE 405, EVE 420 and EVE 480. Must have completed all required 100 and 200 level engineering, mathematics, and science courses.)

Multi-disciplinary design projects with substantial EVE content. Small groups design, build, and test realistic engineering systems under faculty supervision. Projects include safety, economic, environmental, and ethical considerations and require written and oral projects.

**488. Engineering Design Exhibit II**  
(Pre-requisite: EVE 487.)

Continuation of EVE 487 multi-disciplinary design projects with substantial EVE content. Small groups design, build, and test realistic engineering systems under faculty supervision. Projects include safety, economic, environmental, and ethical considerations and require written and oral reports.

**490. Groundwater Hydrology**  
(Pre-requisite: EVE 385.)

Application of mathematical models for chemical movement in soils and groundwater to evaluate soil and groundwater pollutant behavior; discussion of remediation techniques; design of subsurface monitoring networks; case studies in groundwater pollution.
SPECIAL COURSES: EVE 491, 492, 493, 498, 499 for variable credit. May be repeated for credit with approval of academic advisor and department chair.

EVE 491-492-493. Special Topics (1-6 hours)
EVE 498. Professional Seminar (1-6 hours)
EVE 499. Independent Study (1-6 hours)

Industrial Engineering Specialization

Industrial engineering is concerned with the design, improvement, and installation of integrated systems of people, material, information, equipment, and energy. The discipline draws upon specialized knowledge and skills in the mathematical, physical, and social sciences, together with the principles and methods of engineering analysis and design to specify, predict, and evaluate the results to be obtained from such systems.

To a large extent the industrial engineer is a “people” engineer, joining the worker together with the “things” that are designed by engineers from other disciplines such as mechanical and electrical engineering. As a consequence of the need for people skills the Mercer program places a heavy emphasis on working as a team and working on real industrial engineering problems from the neighboring communities. The development of the skill in working with and through other people results in many industrial engineers rising to the top of technical companies through the ranks of management.

The three main thrusts of the industrial engineering specialization at Mercer are management science, the application of mathematical techniques to solve management problems; ergonomics, the study of the interaction of humans and machines; and manufacturing, the use of robots and computers for quality production.

Academic Requirement for BSE, Industrial Engineering Specialization

In addition to the retention, graduation, and academic requirements of the University and the School of Engineering, the student specializing in industrial engineering must achieve a grade of C, or better, in EGR 252. A student may not enroll or remain enrolled in a course for which EGR 252 is a pre-requisite without satisfying this requirement. Students must also maintain a grade point average of at least 2.0 in all courses carrying an ISE prefix. Students must complete all required 100 and 200 level engineering, mathematics, and science courses prior to enrolling in ISE 487.

Departmental Honors for BSE in Industrial Engineering

The Department will confer honors on the graduating student specializing in industrial engineering who has best distinguished himself or herself academically.

The Industrial Engineering BSE Curriculum

A graduate of the industrial engineering program will be able to:

1. Analyze engineering problems within the discipline of industrial engineering by use of accepted techniques such as application of probability and statistics, modeling and simulation, and optimization methods.

2. Design solutions to industrial engineering problems and insure that the designs incorporate attention to such factors as ergonomics, safety, and economy.
3. Clearly and logically convey the results of his or her analysis and design to lay persons and other engineers both in writing and orally.

**Bachelor of Science in Engineering (BSE)**

**Degree Requirements: Industrial Engineering Specialization**

1. UNV 101 ................................................................. 1 hour
2. Engineering Core .................................................. 64 hours
3. Humanities, Social Sciences, Global Awareness ............ 12 hours
   (ISE Students are strongly encouraged to include ECN 150 or ECN 151 as part of their Global Awareness/Humanities, Social Sciences requirement.)
4. Required ISE Courses ............................................... 46 hours
   ISE 288. Introduction to Industrial Engineering and Manufacturing Engineering
   ISE 311. Ergonomics and Work Measurement
   ISE 327. Statistical Process and Quality Control
   ISE 352. Design of Experiments
   ISE 370. Manufacturing Processes
   ISE 402. Management Science/Operations Research
   ISE 403. Modeling and Simulation
   ISE 412. Introduction to Human Factors Engineering
   ISE 460. Facilities Planning and Design
   ISE 462. Production Planning and Control
   ISE 480. Introduction to Senior Design
   ISE 482. Industrial Engineering Capstone Design
   ISE 487. Engineering Design Exhibit I
   ISE 488. Engineering Design Exhibit II
   ACC 204. Introductory Financial Accounting
   MAE 205 Visualization and Graphics
   MAE 305L Manufacturing Practices
5. Technical Electives ............................................... 6 hours
   The industrial engineering student must take at least one elective from the following:
   ISE 425. Manufacturing Process II
   ISE 426. Computer Integrated Manufacturing
   ISE 427. Reliability and Quality Assurance
   ISE 428. Quality Engineering
   ISE 429. Robotics
   ISE 450. Advanced Ergonomics
   ISE 491. Special Topics
   ISE 492. Special Topics
   ISE 493. Special Topics
   IDM 470. Management Information Systems

   The industrial engineering student must also take one additional professional elective. The student should carefully plan this elective in consultation with his or her advisor. The department recommends selection of courses from the psychology department, the Stetson School of Business and Economics, or one of the engineering programs.

   Total Semester Hours Required .............................. 129 hours
## Industrial Engineering

### Freshman Year

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<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>EGR 108</td>
<td>Professional Practices</td>
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<td>Or</td>
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<tr>
<td>EGR 126</td>
<td>Intro to Prob Solving</td>
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<td>MAT 191</td>
<td>Calculus I</td>
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<td>CHM 111</td>
<td>General Chemistry I</td>
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<td>FYS 101</td>
<td>First Year Seminar</td>
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<tr>
<td>UNV 101</td>
<td>Freshman Experience</td>
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### Sophomore Year

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<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>ISE 288</td>
<td>Intro to ISE</td>
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<tr>
<td>EGR 232</td>
<td>Statics/Solid Mech</td>
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<tr>
<td>EGR 244</td>
<td>Electrical Fund I</td>
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<td>MAE 205</td>
<td>Visualization and Graphics</td>
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<td>MAT 330</td>
<td>Intro to Diff Eqns</td>
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<tr>
<td>PHY 162</td>
<td>General Physics II</td>
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<td>PHY 162L</td>
<td>General Physics II Lab</td>
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### Junior Year

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<tr>
<th>Fall Semester</th>
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<tbody>
<tr>
<td>ISE 327</td>
<td>Stat Process &amp; Qual Ctrl</td>
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<tr>
<td>ISE 370</td>
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<tr>
<td>ISE 402</td>
<td>Mgt Science/OR</td>
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<tr>
<td>MAE 305L</td>
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### Senior Year

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<td>ISE 412</td>
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<td>ISE 460</td>
<td>Fac Planning &amp; Design</td>
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### Master of Science in Engineering in Engineering Management

The increasing demand for technology in today’s society creates additional demand for graduate degrees in engineering as the entry level degree for engineering practice. The purpose of the graduate degree in Engineering Management is to prepare engineers to successfully address supervisory and...
managerial needs in a technological environment. The Master of Science in Engineering in Engineering Management is designed to enable students to simultaneously obtain a Bachelor of Science in Engineering and a Master of Science in Engineering degree in five years. Thirty additional hours of graduate coursework are required for the Master of Science in Engineering degree. This coursework is integrated throughout the fourth and fifth years of study.

Students who complete the coursework required in the first three years of the bachelor's degree in an engineering program with grades which qualify them for graduate study may apply for admission to the Master of Science in Engineering program. In general, application for admission would be made during the term in which the last of the required courses is taken. Final acceptance into the program will be granted on satisfactory completion of work in progress at the time of application.

For additional details, program requirements, and course descriptions, please refer to the information in the graduate studies section of this Bulletin.

### 5 Year BSE/MSE Program

#### 4th Year

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### ISE Courses

**288. Introduction to Industrial Engineering and Manufacturing Engineering (0-3-1)**

Prerequisite: Sophomore Standing.
An overview of the concepts important to industrial engineering and manufactur-
ing engineering. Topics include operations research, facility design, quality control, information systems, economic analysis, management concepts, and human factors, as well as visualization of the interpretation of mechanical drawings in a manufacturing environment.

311. Ergonomics and Work Measurement (3-0-3)
Prerequisite: C or better in EGR 252.
Design and evaluation of tools, work spaces, work methods, and work environments, with an emphasis on industrial environments. Task analysis, time/motion studies, and work sampling. Physiological and biomechanical considerations. Safety engineering.

327. Statistical Process and Quality Control (3-0-3)
Prerequisite: C or better in EGR 252.
Statistical process control methods for products and services; design of quality assurance systems; control inputs, production processes and outputs. Contributions of Deming and Taguchi.

352. Design of Experiments (3-0-3)
Prerequisite: C or better in EGR 252.
Advanced model designs (fractional factorials, Latin squares, nested, etc.) Estimation of model parameters and model adequacy checking. Multiple regression. Response surface methodology and Taguchi methods.

370. Manufacturing Processes (3-0-3)
Prerequisites: EGR 312 or equivalent, C or better in EGR 252 or equivalent. Pre/corequisite: MAE 305L or permission of instructor.
Introduction to manufacturing systems. Manufacturing processes: casting, metal cutting, welding and joining processes, and plastic materials and processes. Introduction to geometric dimensioning and tolerancing, metrology and testing, numerical control, and process automation. Integrated laboratory assignments.

402. Management Science/Operations Research (3-0-3)
Prerequisites: C or better in EGR 252 or MAT 226, MAT 191 or MAT 141 or equivalent. Applications of, and theory behind deterministic models in management science/operations research, including; linear, integer, goal, non-linear and dynamic programming; network models to include the transportation and assignment algorithms, forecasting and decision analysis.

403. Modeling and Simulation (3-0-3)
Prerequisites: C or better in EGR 252 or MAT 226, MAT 191 or MAT 141 or equivalent. Applications of, and theory behind queuing models; and the application of discrete event simulation to model service and manufacturing systems.

412. Human Factors Engineering (3-0-3)
Prerequisite: ISE 311. Human-machine systems modeling and design for human interaction with complex systems such as nuclear power plants, aircraft, and automated manufacturing systems. Models of human information processing, perception, memory, decision making and error generation. Design of interfaces for complex systems, including human-computer interfaces.
424. **Computer Assisted Manufacturing Systems** (3-0-3)
Prerequisite: ISE 370.

427. **Reliability and Quality Assurance** (3-0-3)
Prerequisite: ISE 327.
Design and management of reliability programs and quality assurance systems; mathematics of reliability.

428. **Quality Engineering** (3-0-3)
Prerequisite: IDM 355 or ISE 327.
Management’s role in assuring quality. Case studies in quality design. Design and implementation of quality systems.

429. **Robotics** (3-0-3)
Prerequisite: ISE 370 or Permission of Instructor.
Introduction to robotics. Robot arm kinematics and dynamics. Trajectory planning and control of robot manipulators. Sensing and vision capabilities of robots. Robot programming languages. Robot intelligence and task planning. Integrated laboratory assignments.

460. **Facilities Planning and Design** (3-0-3)
Prerequisite: ISE 370.
Corequisite: ISE 403.
Comprehensive design of industrial production systems. Determination of requirements, generation and evaluation of alternatives, process design, materials handling, and location analysis.

462. **Production Planning and Control** (3-0-3)
Prerequisite: ISE 402.
Development and application of scheduling and inventory theory; including an introduction to modern manufacturing concepts such as aggregate planning, MRP, JIT, Lean Manufacturing, Theory of Constraints, Continuous Improvement, etc.

480. **Introduction to Senior Design** (0-1-0)
Corequisites: TCO 341, ISE 311, ISE 327, ISE 370 and ISE 402.
Course will provide guidance for the selection of team members and topic for the senior design project to be completed in ISE 487 and ISE 488. To successfully complete the course, a student must belong to a team (3 to 4 persons) and briefly outline the project goals to be implemented in ISE 487 and ISE 488. A seminar series will be conducted to facilitate student introduction to potential industrial clients and projects. Seminar attendance is required to obtain a satisfactory course grade. This course is graded S/U.

482. **Industrial Engineering Capstone Design Experience** (3-0-3)
Prerequisites: TCO 341, ISE 311, ISE 327, ISE 370 and ISE 402.
Corequisites: ISE 403 and ISE 424.
Synthesis and integration of the common techniques and methods of industrial
engineering to solve “real” world or “quasi-real” world problems. Emphasis on team solutions and communications.

487. Engineering Design Exhibit I  
(0-6-2)  
Prerequisites: TCO 341, ISE 311, ISE 327, ISE 370, ISE 402, and ISE 480. Must have completed all required 100 and 200 level engineering, mathematics, and science courses.  
Corequisites: ISE 403 and ISE 424.  
Multi-disciplinary design projects with substantial ISE content. Small groups design, build, and test realistic engineering systems under faculty supervision. Projects include safety, economic, environmental, and ethical considerations and require written and oral reports.

488. Engineering Design Exhibit II  
(0-6-2)  
Prerequisite: ISE 487.  
Continuation of ISE 487 multi-disciplinary design projects with substantial ISE content. Small groups design, build, and test realistic engineering systems under faculty supervision. Projects include safety, economic, environmental, and ethical considerations and require written and oral reports.

SPECIAL COURSES: ISE 491, 492, 493, 498, 499 for variable credit. May be repeated for credit with approval of academic advisor and department chair.

491-492-493. Special Topics  
(1-6 hours)  
498. Professional Seminar  
(1-6 hours)  
499. Independent Study  
(1-6 hours)

Mechanical Engineering Specialization  
The mechanical engineering profession involves the practical application of engineering science and design to areas as diverse as the generation, conversion, transmission, and use of thermal and mechanical energy; the production of tools, machines, and consumer products; the design and optimization of mechanical, thermodynamic, and fluid systems; and materials selection and processing. It is virtually impossible to name a manufactured product that has not been touched in some way by a mechanical engineer. Research, design, production, operation, administration, and economics are functional aspects of mechanical engineering. Mechanical engineers are responsible for the design and application of transportation systems, medical devices, automated manufacturing systems, robotics, power generation, cooling of electronic components, and automatic control systems. Within the broad scope of these systems, the mechanical engineer is concerned with a challenging and diverse array of design and development problems.

In modern society, mechanical engineers must extend their interest beyond the strictly technical aspects of their positions to include economic, safety, ethical, and environmental considerations. Today’s mechanical engineers must be creative problem solvers with a broad scope of capabilities-including the ability to communicate their ideas effectively.

Academic Requirements for BSE, Mechanical Engineering Specialization  
The student choosing to specialize in mechanical engineering must satisfy all of the retention, graduation and academic requirements of the University and the
School of Engineering. In addition, the student must achieve grades of C, or better, in EGR 232 (Statics/Solid Mechanics), EGR 233 (Dynamics), and EGR 235 (Thermodynamics). A student may not enroll or remain enrolled in a course for which one of these courses is a prerequisite without satisfying this requirement. Students must also maintain a minimum cumulative grade point average of 2.0 in courses with the MAE prefix. Mechanical engineering students must complete all required 200-level and 300-level MAE courses (except MAE 302L) and all required 100 and 200 level engineering, mathematics, and science courses before enrolling in Senior Design (MAE 487).

**Departmental Honors for BSE in Mechanical Engineering**

Departmental Honors will be conferred each year by the mechanical engineering faculty upon the graduating student specializing in mechanical engineering who has best distinguished himself or herself academically.

**The Mechanical Engineering BSE Curriculum**

The undergraduate curriculum covers the fundamentals of engineering, emphasizes basic principles, and educates the student in the use of these principles to reach optimal design solutions for engineering problems. The objective of the specialization in mechanical engineering is to provide a competitively educated engineer who can:

1. Effectively use the principles of statics, dynamics, solid mechanics, machine design, mechanical systems, thermodynamics, fluids mechanics, heat transfer, and materials science for the design and analysis of practical engineering systems.
2. Effectively communicate both orally and in writing.

Successful completion of this curriculum prepares the student for a career in one of the many phases of the mechanical engineering profession, or for advanced education in graduate school.

**Bachelor of Science in Engineering (BSE) Degree Requirements:**

**Mechanical Engineering Specialization**

1. UNV 101 .................................................................1 hour
2. Engineering Core .........................................................64 hours
3. Additional Mathematics .............................................3 hours
   MAT 293. Multivariable Calculus
4. Humanities, Social Sciences, Global Awareness ..............12 hours
5. Required MAE Courses ..............................................40 hours
   MAE 205. Visualization and Graphics
   MAE 302L. Mechanical Engineering Laboratory I
   MAE 305L. Manufacturing Practices
   MAE 310. Engineering Analysis for Mechanical Engineers
   MAE 320. Solid Mechanics
   MAE 322. Machine Design
   MAE 330. Fluid Mechanics
   MAE 335. Thermodynamics II
   MAE 362. Structure and Properties of Materials
   MAE 402L. Mechanical Engineering Laboratory II
6. Technical Electives .......................................................... 9 hours

This specialization requires nine hours of technical elective courses, chosen with the approval of the student, faculty advisor, and department chairman. The student must take at least six hours in MAE technical electives. The remaining technical elective hours can be satisfied by any non-required 300-level or 400-level course in BME, ECE, EGR, EVE, ISE, MAE, CHM, CSC, MAT, or PHY.

Total Semester Hours Required ............................................. 129 hours

### Mechanical Engineering

#### Freshman Year

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<td>MAT 192 Calculus II</td>
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<td>PHY 161 General Physics I</td>
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<td>EGR 245 Electrical Fund II</td>
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### Mechanical Engineering / 309
### Senior Year

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### Integrated Bachelor of Science in Engineering / Master of Science in Engineering in Mechanical Engineering

Students who complete the first three years of the bachelor’s program in the mechanical engineering specialization with grades which qualify them for graduate study may directly pursue their master of engineering degree during their fourth and fifth years of study. A full calendar year, including one additional summer term, is needed to complete the master of science in engineering degrees offered in the MAE department. See the graduate studies section near the back of this catalog for more information about the master of science in engineering programs.

### Senior Year (Integrated Bachelor of Science in Engineering / Master of Science in Engineering students only)

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MAE Courses

205. Visualization and Graphics (0-6-2)
An introduction to engineering graphics and component visualization. Sketching, line drawing, and an introduction to computer assisted drafting. Utilization of drawings in a manufacturing environment.

302L. Mechanical Engineering Laboratory I (1-3-2)
Prerequisites: EGR 252, MAE 320, MAE 335.
Corequisite: MAE 430.
Application of basic measurement techniques and instrumentation to the experimental investigation of mechanical engineering systems-refrigeration systems, flow and heat transfer devices, and mechanical systems. Identification of experimental objectives, planning of experimental processes and procedures, collection and evaluation of experimental data, and analysis of experimental results. Reports of experimental investigation, including descriptions of study objectives, procedures and methods, analysis methods, results, and conclusions.

305L. Manufacturing Practices (0-6-2)
Prerequisites: EGR 232 (MAE specialization - C or better), MAE 205 or ISE 288/IDM 288.
Theory and applications of metal working machinery. Industrial safety. Engineering and technological aspects of joining operations. Interpretation of engineering drawings. Introduction to design of simple jigs and fixtures.

310. Engineering Analysis for Mechanical Engineers (3-0-3)
Prerequisites: EGR 126, MAT 293, MAT 330.
Corequisite: EGR 252.
Introduction to the solution of partial differential equations and numerical methods in mechanical engineering. Separation of variables, root finding, systems of simultaneous equations, numerical integration, matrix methods, finite difference methods.

320. Solid Mechanics II (3-0-3)
Prerequisites: C or better in EGR 232, MAT 192.
Stress, strain, axial deformation of statically determinate and indeterminate systems. Generalized Hooke's Law. Torsion, beam bending, shear stresses in beams, stress and strain transformation, beam deflections. Energy methods. Static and fatigue failure theories. Design of structural members: beams, columns, etc.

322. Machine Design (3-0-3)
Prerequisites: C or better in EGR 232, MAE 320.
Application of the principles of solid mechanics, materials science, and statistics to the design and analysis of specific machine components such as screws, bearings, gears, welded joints, springs, etc.

330. Fluid Mechanics (3-0-3)
Prerequisites: C or better in EGR 233 and EGR 235, MAT 293, MAT 330.
335. Thermodynamics II
Prerequisite: C or better in EGR 235.
Corequisite: MAT 293.
Second law analysis. Power and refrigeration cycles. Application of basic principles to engineering problems involving ideal gas mixtures, psychrometrics, real gas mixtures, and combustion.

362. Structure and Properties of Materials
Prerequisites: CHM 111, MAT 330.
Mechanical behavior of materials, atomic concepts, properties of crystalline and non-crystalline solids. Materials in design.

402L. Mechanical Engineering Laboratory II
Prerequisites: MAE 330, MAE 302L.
Corequisites: MAE 430, MAE 460.
Design of experiments. Multiple experimental projects focused on analysis of materials and materials processing, thermal systems, and/or mechanical systems.

406. Introduction to Finite Element Analysis
Prerequisites: MAE 310, MAE 320.
Corequisite: MAE 430.

422. Dynamics of Mechanical Systems
Prerequisites: C or better in EGR 233, MAE 310.
Planar kinetics of rigid bodies: force and acceleration, work and energy, and impulse and momentum. Three dimensional kinematics of rigid bodies. Three dimensional kinetics of rigid bodies: force and acceleration. Introduction to vibrations. Design of systems to produce different types of motion.

425. Vibrations
Prerequisites: C or better in EGR 233, MAT 330.
Elements of vibrating systems. One degree of freedom systems: free and forced, and damped and undamped. Multi-degree of freedom systems: free and forced, and damped and undamped. Vibration of continuous systems. Design of vibration systems.

427. Solid Mechanics III
Prerequisites: MAE 310, MAE 320.
Three dimensional stress at a point, compatibility equations, strain energy, plane stress, plane strain, mechanical behavior of materials, beam bending, torsion of prismatic bars, elastic foundations, elastic stability, energy methods.

430. Heat Transfer
Prerequisites: MAT 330, C or better in EGR 235, MAE 310, MAE 330.

435. Thermal Systems Analysis
Prerequisites: MAE 330, MAE 335, MAE 430.
Introduction to heat exchangers and heat exchanger design. Design and opti-
mization of thermal systems, including modeling, simulation, and economics. Component design. Examples from power generation systems, heat exchanger/recovery, HVAC.

437. Internal Combustion Engines (3-0-3)
Prerequisite: MAE 335.

439. Heating, Ventilation, and Air Conditioning Design (3-0-3)
Prerequisites: MAE 335, MAE 430.

444. Flight Structures (3-0-3)
Prerequisite: MAE 320.
Loads, fatigue, minimum weight design, stress analysis of semi-monocoque structures, and design of members in tension, bending, and torsion.

460. Engineering Materials (2-0-2)
Prerequisites: MAE 362.
Corequisites: MAE 402L, MAE 430.
Engineering applications of irons, steels and other metals. Properties and uses of plastics and composites. Materials selection for mechanical designs.

480. Introduction to Senior Design (0-1-0)
Corequisites: TCO 341, MAE 305L, MAE 322, MAE 335 and MAE 362.
Course will provide guidance for the selection of team members and topic for the senior design project to be completed in MAE 487 and MAE 488. To successfully complete the course, a student must belong to a team (3 to 4 persons) and briefly outline the project goals to be implemented in MAE 487 and MAE 488. A seminar series will be conducted to facilitate student introduction to potential industrial clients and projects. Seminar attendance is required to obtain a satisfactory course grade. This course is graded S/U.

487. Engineering Design Exhibit I (0-6-2)
Prerequisites: TCO 341, MAE 305L, MAE 322, MAE 335 and MAE 362. Must have completed all 100 and 200 level engineering, mathematics, and science courses.
Corequisites: MAE 302L, MAE 430.
Multi-disciplinary design projects with substantial MAE content. Small groups design, build, and test realistic engineering systems under faculty supervision. Projects include safety, economic, environmental, and ethical considerations and require written and oral reports.

488. Engineering Design Exhibit II (0-6-2)
Prerequisite: MAE 487.
Continuation of MAE 487 multi-disciplinary design projects with substantial MAE content. Small groups design, build, and test realistic engineering systems under faculty supervision. Projects include safety, economic, environmental, and ethical considerations and require written and oral reports.
SPECIAL COURSES: MAE 491, 492, 493, 498, 499 for variable credit. May be repeated for credit with approval of academic advisor and department chair.

491-492-493. Special Topics (1-6 hours)
498. Professional Seminar (1-6 hours)
499. Independent Study (1-6 hours)

Bachelor of Science Degree Program

Students who wish to pursue a liberal education with strong emphasis on engineering topical areas may pursue a Bachelor of Science degree in the School of Engineering. Graduates of this program are prepared to pursue engineering related careers or to pursue advanced degrees that require a strong foundation in the sciences. This program is not accredited as an engineering degree and graduates are not qualified to become licensed as a Professional Engineer.

The following majors are available: Industrial Management Technical Communication Curricula and requirements for each of these majors are presented later in this document. Students who entered these majors as freshmen before May 1, 1997 must consult with their advisor to establish their specific program requirements in view of the transition from quarter to semester curricula.

Industrial Management

Today's business world requires managers who are knowledgeable of and comfortable with technology. This is true not only in manufacturing but also in service industries such as banking, hospital management, and a host of others that are increasingly turning toward the use of the computer and other tools to manage.

To meet these needs the School of Engineering in cooperation with the Stetson School of Business and Economics and the Department of Psychology of the College of Liberal Arts has designed the Industrial Management program. The program produces graduates who are skilled in "traditional" managerial disciplines such as accounting and finance and, in addition, are adept at applying a number of engineering tools to management decisions. This program appeals to students who like mathematics but are not interested in the entire rigor of an engineering program. These students also prefer more emphasis on quantitative approaches than is generally found in a business program. One should realize that this is not an engineering program, and, in general, graduates would not be able to pursue a graduate degree in engineering or secure a license as a professional engineer.

The main areas of emphasis in the program are: psychology, quantitative methods of management, economics, accounting, and management information systems. This basic foundation will allow the graduate to advance successfully through the ranks of management in any company that is technology driven.

Academic Requirements for BS, Industrial Management Major

In addition to the retention, graduation, and academic requirements of the University, the industrial management student must achieve a grade of C or better in ECN 150, ECN 151, MAT 226, PSY 101, PSY 235, and a grade point average in excess of 2.0 for all IDM and ISE courses.
Departmental Honors for BS in Industrial Management

The Mechanical and Industrial Engineering Department will confer honors on the graduating student majoring in industrial management who has best distinguished himself or herself academically.

The Industrial Management BS Curriculum

A graduate of the industrial management program will be able to:

1. Apply a number of quantitative techniques to the solution of management problems.
2. Analyze managerial problems in the context of accounting and modern economic theory.
3. Act upon human resource problems effectively.
4. Design, analyze, and implement manufacturing, management, and quality systems.
5. Function on interdisciplinary teams.
6. Communicate to both specialized and public audiences in a variety of modes.
7. Relate the practice of industrial management to global contemporary issues, to professional ethics, and to the need for lifelong learning.
8. Contribute to sustaining and improving community.

Bachelor of Science (BS) Degree Requirements

Industrial Management Major

1. Mathematical Foundation ..............................................11 hours
   MAT 133. Precalculus
   MAT 191. Calculus I
   MAT 226. Elementary Statistical Methods

2. Basic Sciences ............................................................12 hours
   CHM 111. General Chemistry I

Or
   Two 2-credit science laboratory modules in the areas of Biology, Chemistry, or Environmental Science. A list of approved modules can be obtained from the ISE secretary.
   PHY 141. Introductory Physics I
   PHY 121L. Introductory Physics I Lab
   PHY 142. Introductory Physics II
   PHY 142L. Introductory Physics II Lab

3. Humanities, Social Sciences, Global Awareness ...................12 hours

4. Psychology ...............................................................6 hours
   PSY 101. Introduction to Psychology
   PSY 235. Industrial Psychology

5. Management Courses ....................................................36 hours
   MGT 429 and ACC 377 are offered by the Stetson School of Business and Economics on an irregular schedule. Students should be prepared to schedule these two courses at their first offering after prerequisites have been completed.
BUS 346. Legal Environment of Business
FIN 362. Principles of Finance
IDM 355. Quality Management
IDM 404. Industrial Management Case Studies
IDM 470. Management Information Systems I
ISE 370. Manufacturing Processes I
ISE 402. Management Science I/Operations Research
ISE 403. Modeling and Simulation
MGT 363. Principles of Management
MGT 423. Organizational Behavior
MGT 429. Human Resource Management
MKT 361. Principles of Marketing

6. Accounting Courses .................................9 hours
   ACC 377 and MGT 429 are offered by the Stetson School of Business and Economics on an irregular schedule. Students should be prepared to schedule these two courses at their first offering after prerequisites have been completed.
   ACC 204. Introduction to Financial Accounting
   ACC 205. Introduction to Managerial Accounting
   ACC 377. Cost Accounting

7. Foundations in Economics ...........................9 hours
   ECN 150. Microeconomics
   ECN 151. Macroeconomics
   ECN 301. Money, Banking and Credit

8. Computers, Communications, and Engineering ..........22 hours
   EGR 107. Introduction to Engineering Design
   EGR 108. Professional Practices
   EGR 126. Introduction to Problem Solving
   FYS 101. First Year Seminar
   IDM 288. Introduction to Industrial Management & Manufacturing Engineering
   IDM 480. Introduction to Senior Design
   IDM 487. Senior Design Exhibit I
   IDM 488. Senior Design Exhibit II
   TCO 341. Technical Communication
   UNV 101. Freshman Experience

9. Technical and Free Electives ........................12 hours
   The Industrial Management student must take nine hours of electives from courses that are closely allied to the discipline. The student should work closely with his/her advisor to select these technical electives. In addition, the student must select one additional course, a free elective, from any of the offerings from the entire University.

Total Semester Hours Required .....................29 hours
### Freshman Year

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### Total Credits

- Freshman Year: 15 credits
- Sophomore Year: 12 credits
- Junior Year: 14 credits
- Senior Year: 18 credits
IDM Courses

288. Introduction to Industrial Management and Manufacturing (0-3-1)
Prerequisite: Sophomore standing.
An overview of the concepts important to industrial management and manufacturing. Topics include operations research, facility design, quality control, information systems, economic analysis, management concepts, and human factors, as well as visualization of the interpretation of mechanical drawings in a manufacturing environment.

302. Industrial Management I (3-0-3)
Prerequisite: IDM 288.
Specific problems associated with managing a factory or industrial firm. Establishment of the organization, plant location, layout, facilities of production, employee's work and wages, control of product quality and cost.

355. Quality Management (3-0-3)
Prerequisite: C or better in EGR 252 or MAT 226.
An investigation into the application of quantitative methods and human resources to improve all of the business processes and systems within an organization in order to provide superior customer value. Use of a disciplined approach which integrates fundamental management techniques, existing improvement efforts, and technical tools to achieve customer focus, total participation, and continual improvement over a wide range of applicability.

404. Industrial Management Case Studies (3-0-3)
Prerequisite: IDM 355, ISE 370, and ISE 402.
Systematic problem solving utilizing actual and theoretical cases involving all areas of management and production. Detailed oral and written presentations.

407. Plant Development (3-0-3)
Prerequisite: IDM 302
Plant design and layout procedures; materials handling analysis, equipment arrangements and line-balancing requirements.

409. Manufacturing Scheduling and Control (3-0-3)
Prerequisite: IDM 407.
The design of scheduling systems for various levels of production to meet aggregate demand for products and services. Lecture and case studies.

410. Safety Programs and Administration (3-0-3)
Prerequisite: Junior Standing.
Elements of administering a comprehensive hazards control program: management controls, hazard recognition, accident prevention, work environments and OSHA regulations.

414. Industrial Safety (3-0-3)
Prerequisite: IDM 410.
Industrial safety management and administration including economic factors such as direct and indirect costs, workmen's compensation, accident prevention. Survey of safety regulations and programs.

470. Management Information Systems I (3-0-3)
Prerequisite: EGR 126.
Analysis and synthesis of computer-based information systems emphasizing a
management approach. Planning, development, implementation, operation, evaluation, and control phases of the MIS life cycle.

480. Introduction to Senior Design (0-1-0)
Corequisites: TCO 341, IDM 355, ISE 370 and ISE 402.
Course will provide guidance for the selection of team members and topic for the senior design project to be completed in IDM 487 and IDM 488. To successfully complete the course, a student must belong to a team (3 to 4 persons) and briefly outline the project goals to be implemented in IDM 487 and IDM 488. A seminar series will be conducted to facilitate student introduction to potential industrial clients and projects. Seminar attendance is required to obtain a satisfactory course grade. This course is graded S/U.

487. Senior Design Exhibits I (0-6-2)
Prerequisites: TCO 341, IDM 355, IDM 480, ISE 370, and ISE 402. Must have completed all 100 and 200 level engineering, mathematics, and science courses.
Corequisite: ISE 403
Project design of a manufacturing facility encompassing market analysis, budget development, plant requirements and layout, production equipment, and workforce analysis. Oral and written presentations.

488. Senior Design Exhibits II (0-6-2)
Prerequisite: IDM 487.
Continuation of IDM 487 with project design of a manufacturing facility encompassing market analysis, budget development, plant requirements and layout, production equipment, and workforce analysis. Oral and written presentations.

SPECIAL COURSES: IDM 491, 492, 493, 498, 499 for variable credit. May be repeated for credit with permission of advisor.

491-492-493. Special Topics (1-4 hours)
498. Processional Seminar (1-4 hours)
499. Independent Study (1-4 hours)

Technical Communication

Technical communication is a relatively new professional field of study that is gaining prominence as society becomes more and more immersed in technology. Technical communicators serve as information architects; as translators of technical information for nonspecialist users; as bridges between people in different businesses, cultures, or disciplines; and as user advocates on design teams. They are skilled in writing, speaking, designing documents, using advanced information technologies, working with people, and solving complex problems of communicating information using technology.

The major in technical communication draws upon the resources of several disciplines to provide a foundation in sciences, mathematics and technology, together with strong emphasis on communication skills. This program enables students to enter a wide variety of career fields. The Technical Communication major emphasizes mastery of the theoretical, rhetorical background of communication, while providing practical, hands-on experience. In the same way that engineering applies the principles of mathematics and science to real-world problems, so technical communication applies the principles of communication to real-world problems in technical settings.
Graduates are well prepared for entry-level positions in technical writing and editing, documentation, publications design management, advertising and marketing for technical fields, training, web design, instructional design, and many others. Majors are encouraged to join professional organizations, such as Mercer's Student Chapter of the Society for Technical Communication. A number of graduate programs in technical communication are available for advanced study, including Mercer's Master of Science in Technical Communication Management, offered via distance learning.

Students are encouraged to enter internships for practical experience, and they are expected to work as members of design teams at several levels. Students may, by careful planning, earn a major both in technical communication and in another discipline.

The minor in technical communication provides an attractive component for many degree programs (see description below).

Technical communication courses are open to any students, regardless of their college or major, who have the prerequisites and/or appropriate experience.

**Academic Requirements for BS, Technical Communication Major**

In addition to the general academic requirements of the University and the School of Engineering, technical communication students must maintain a grade point average of at least 2.0 in all courses carrying a TCO prefix or counted as part of the TCO major.

**Departmental Honors for BS in Technical Communication**

Departmental honors will be conferred each year by the Technical Communication faculty upon the student specializing in technical communication who has best distinguished himself or herself academically, and whose undergraduate career best exemplifies the standards of the profession.

**The Jeffrey Mavro TCO Scholarship**

The Jeffrey Mavro TCO Scholarship provides financial awards for selected Undergraduates majoring in Technical Communication. Consult University Admissions or the TCO Department for more information.

**The Technical Communication BS Curriculum**

A graduate of the Technical Communication program will be able to:

1. Analyze the audience for any communication, define its purpose, and design an appropriate information product to meet the needs.
2. Write and speak clearly for various audiences, present information accurately and persuasively, use a variety of media appropriately, and work successfully in a team environment.
3. Serve as the user advocate on design teams, focusing attention on design alternatives that respect the needs of the users and add value to technical products.

**Bachelor of Science (BS) Degree Requirements**

**Technical Communication Major**

1. Required TCO Courses ........................................19 hours
   TCO 285. Document and Web Design
TCO 341. Technical Communication
TCO 361. Usability
TCO 363. Instructional Design
TCO 421. Technical Editing
TCO 480. Introduction to Senior Design
TCO 487. Senior Design Project I
TCO 488. Senior Design Project II

Or

TCO 496. Technical Communication Internship, plus
TCO 498. Graduation Exhibit

2. TCO Electives ................................................. 24 hours
(Minimum, with at least 4 courses numbered 300 or above)
TCO 325. Multimedia
TCO 345. Communication in Management
TCO 351. Reports & Proposals
TCO 376. Visual Communication
TCO 476. Communication in High-Tech Environments
TCO 491. Special Topics: (subtitle)
TCO 492. Special Topics: (subtitle)
ART 354. Digital Imaging
CTA 276. Video Production
CTA 370. Public Relations: Theory and Methods
CTA 400. Senior Seminar in CTA: Ethics
CSC 206. Visual Programming
IDM 470. Management Information Systems I
IST 220. Introduction to Databases
IST 221. Introduction to Networks
PHO 221. Art of Photography

3. Engineering, Math, Science Core ................. Approx. 31 hours
(Depending upon placement; may substitute higher-level courses)
EGR 107. Introduction to Engineering Design
EGR 108. Professional Practices
EGR 126. Introduction to Problem Solving [or CSC 204]
MAT 133. Precalculus
MAT 141. Calculus for the Social Sciences
MAT 226. Elementary Statistical Methods
Three courses (at least 1 Physics and Lab) from these:
PHY 141. Intro. Physics I
PHY 121L. Intro. Physics I Lab
PHY 142. Intro. Physics II
PHY 142L. Intro. Physics II Lab
ENV 150. Introduction to Environmental Science
ENV 210. Environmental Geology
ESC 105. Geology
ESC 110. Meteorology
ESC 115. Descriptive Astronomy
CHM 108. Concepts of Chemistry
CHM 111. General Chemistry I
CHM 112. General Chemistry II
BIO 205. Intro. To Biology for Biomedical Engineers
BIO 210. Introduction to Biology I
4. Humanities/ Social Sciences/Global Awareness . . . . . . . . . . . . .16 hours
FYS 101, ECN 150 or 151, and a religion course are required. Selection of courses from the College of Liberal Arts, Stetson School of Business & Economics, and School of Engineering that builds an understanding of the global environment technical communicators operate within. (Consult advisor for list of approved courses.) As an alternative, students may select courses (at least 2 upper division) in humanities and social sciences that create some depth in a field of study. Study abroad experiences may provide another option.

5. Professional Area Electives . . . . . . . . . . . . . . . . . . . . . . . . . . . . .15 hours
Students must select one of the Professional Areas outlined below. These courses are designed to develop strength in a corollary discipline compatible with the student’s career plans. In some departments, this professional elective may be called a minor and be so listed on the transcript.

At least three courses should be selected from courses numbered 300 or above. Consult the faculty advisor for best fit with career plans.

(1) Computer Science or Information Science Technology
A large percentage of technical communication careers involve the computer industry; having a grasp of computer science and information technology is an asset for technical communicators. See the College of Liberal Arts section of the Bulletin for descriptions of minors in CSC and IST.

(2) Business Minors
Understanding the business environment is a great help in working in corporate settings. The Stetson School of Business & Economics offers minors to non-BBA students in Accounting, Business Administration, and Economics. See the SSBE section of this Bulletin for requirements.

(3) Foreign Language
Many companies are international, and having skills in a language will be an asset. Courses leading to a minor in French, Spanish, or German will involve at least two courses numbered 300 or above. The total number of courses will depend upon the student’s earlier preparation and fluency. Please see the Foreign Languages and Literatures Department in the College of Liberal Arts and consult the Bulletin.

(4) Engineering Emphasis
Preparation for working in engineering environments helps open doors within highly technical companies. Working with the department head of the chosen department, the student selects at least 15 hours from an engineering discipline. Students must meet the prerequisites of the courses selected and approved for the Professional Area.

(5) Communication and Theatre Arts
Concepts in communication, mass media, journalism, speaking, and video are relevant courses for technical communicators. See the description of the minor in CTA in the College of Liberal Arts section of this Bulletin.

(6) Individualized
Students may individualize their choices, providing they select at least 15 hours making a coherent, logical set of courses, with at least 3 courses numbered 300 or above. Consult with your advisor and get approval from the chair of the Department of Technical Communication.
6. Free Electives

Students will take free electives as needed to gain the 129 hours required for graduation. These electives are entirely open for student choice.

Total Semester Hours Required ................................. 129 hours

Double and/or Second Majors

Students are encouraged to investigate the possibility of combining another major with the technical communication major, especially when preferred career directions are clear early in their academic programs. This option may provide opportunities to combine fields of interest, even widely dissimilar ones.

Minor in Technical Communication

Students wishing to earn a minor in technical communication should select at least 15 hours of course work in technical communication courses, including TCO 285, TCO 341 and at least two other courses above 300. Consult with the department chairperson to get approval for selected courses and then formally declare the TCO minor.

Sample 4-Year Curriculum

The BS in technical communication may be completed in four years. This sample curriculum shows one possible configuration of courses, but will vary according to each student’s circumstances (for example, students who exempt MAT 133 will have 4 more hours of free electives).

Technical Communication

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</table>

### Senior Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCO 363 Instructional Design</td>
<td>TCO 496 Internship*</td>
</tr>
<tr>
<td>TCO XXX (TCO Elective)</td>
<td>TCO 498 Graduation Exhibit*</td>
</tr>
<tr>
<td>XXX Elective</td>
<td>TCO 421 Tech Editing</td>
</tr>
<tr>
<td>XXX Elective</td>
<td>XXX Prof. Area Elective V</td>
</tr>
<tr>
<td><strong>Total Credits</strong>: 15</td>
<td><strong>Total Credits</strong>: 14</td>
</tr>
</tbody>
</table>

*Or Senior Design 487-488
**Number of Free Electives will vary; must reach total hours of 129

### TCO Courses

**285. Document and Web Design**

Designing effective print and web documents for varying audiences and purposes. Includes basic design principles, integration of visuals, analysis of multiple documents, production issues, and introduction to computer software for desktop publishing and web design. Requires additional lab time outside of class.

**325. Multimedia**

Prerequisite: TCO 285.

An introduction to the technical aspects of computer-based multimedia. Technical and hardware issues as well as theory and design concepts will be covered. Students will analyze the audience and purpose for multimedia, consider advantages and disadvantages of different technologies, and design, build and test multimedia products. Recommended for TCO majors and minors.

**341. Technical Communication**

Prerequisites: EGR 108 or equivalent, Junior standing.

Introduction to forms and processes of technical communication, including letters and memos, reports, instructions, and proposals. Includes oral presentations, peer reviews, collaborative efforts. Emphasis is on determining audience and purpose, especially within organizational contexts, and on designing effective documents. Introduction to resume and data gathering.

**345. Communication in Management**

Prerequisite: TCO 341, or permission of instructor.

Study of the role of communication in management of publications, projects, and people. Includes information specification and planning, quality standards, tracking systems, production, and evaluation. Emphasis on understanding organizational structures, building teams, and adapting to rapidly changing technologies and expectations.
351. Reports and Proposals (3-0-3)
Prerequisite: TCO 341.
Covers the principles involved in preparing scientific or technical reports and proposals for various audiences. Audience analysis, clarification of communication purposes, and presentational skills are included. Attention is given to research skills, individual and collaborative writing processes, review and editing procedures, layout and document design, and styles of reports and proposals.

361. Usability (3-0-3)
Prerequisites: TCO 285, TCO 341.
Theory and practice of designing usable information for different audiences and purposes (document usability, interface design, web usability, etc.). Students participate in a major course project introducing planning and project management, user and task analysis, document and interface design, usability testing.

363. Instructional Design (3-0-3)
Prerequisites: TCO 285, TCO 341.
Theory and practice of designing information products for teaching or training; includes concepts of adult learning theory, delivery in various models (face to face, online, on CD, etc.), and evaluation of learning. Students participate in a major course project including planning and project management, instructional design, and training.

376. Visual Communication (3-0-3)
Prerequisite: TCO 285, or permission of instructor.
Introduction to theoretical and applied principles of visual communication. The course explores theories of visual communication which help us understand the structure and organization of the visual world, and explores practical applications of these principles in planning and designing visual systems for new, emerging media.

421. Technical Editing (3-0-3)
Prerequisite: TCO 341.
A workshop course covering the essential tasks performed by technical editors, including editing for grammar, style, form, and content; organizational principles for reader-centered texts; integrated use of art, figures, and numbers in layout; indexing; and managing people and processes in all phases of document preparation. Attention is given to the editor's role in dealing with authors, audiences and purpose, and to the complex analytical skills required for technical editors.

476. Communication in High-Tech Environments (3-0-3)
Prerequisite: TCO 341.
This senior capstone course focuses on a topic of significance in the future of technical communication. Through research and presentations, students generate a body of knowledge and identify critical issues related to the future of technical communication.

487, 488. Senior Design Exhibit I, II (1-3-2, 1-3-2)
Prerequisites: TCO 341, senior standing, permission of chair of TCO department.
Technical communication design project in small groups; plan, design, produce, test, and revise a technical document or product under faculty supervision. Prepare presentations at both proposal and final phases. Students must design document(s) or products appropriately for audience and purpose; master technical content, organization, and layout; use appropriate technology; and write with
clarity and precision. Professional presentational skills are expected. TCO 488 includes Graduation Exhibit.

496. Technical Communication Internship (1-0-3)
Prerequisite: Permission of Chair of TCO Department.
Corequisite: TCO 498.
This full-time, semester-long internship is the preferred option for TCO majors. Provides the student with practical experience in a technical communication setting, under the supervision of a faculty member. A journal and written report will be submitted, along with documents produced in the internship, if applicable. Interns will deliver a seminar for faculty and students on their internship experience (see TCO 498). Graded S/U

498. Graduation Exhibit (1-0-1)
Prerequisite: Senior Status.
Co-Requisite: TCO 496.
Public presentation of portfolio, seminar, or other senior capstone exhibits. Required for students selecting TCO 496, Internship, rather than TCO 487-488, Senior Design Project.

SPECIAL COURSES: TCO 491, 492, 493, 499 for variable credit. May be repeated for credit with approval of academic advisor and department chair.

491-492-493. Special Topics (1-6 hours)
499. Independent Study (1-6 hours)
Tift College of Education

Carl Richard Martray, Ph.D., Dean/Professor
Allison C. Gilmore, Ph.D., Associate Dean/Professor
Susan C. Malone, Ed.D., Associate Dean/Associate Professor
Catherine M. Gardner, Harriet A. Hathaway, Albert A. Stramiello, Richard V. Swindle, and Mary E. Willingham; Professors
Linda Adams, Mary Kay Bacallao, Macklin D. Duggins, Penny L. Elkins, Jianhua Feng, Janet S. Fields, William O. Lacefield, Dana H. Lilly, Margaret R. Morris, and Bruce E. Sliger, Associate Professors
Patrice P. Grimes, Margaret S. McCall, and Lucile F. Maples, Instructors

Mission
The mission of the Tift College of Education is to prepare students to blend theory with practice, to think critically, and to interact effectively in a technologically complex, global society. To accomplish this mission, the Tift College of Education offers undergraduate and graduate degree programs and educational services designed to meet the needs of diverse students and of the teacher education and human service communities.

Goals
The Tift College of Education will:
1. Reflect an understanding of education as a broad and lifelong process undergirded by the tradition of liberal learning.
2. Provide and promote academic programs that will respond effectively to geographic, professional, and cultural communities.
3. Cultivate a community of learning characterized by tolerance, compassion, mutual respect, and personal, social, and environmental responsibility.
4. Provide an academic environment that enhances the ability and faculty to synthesize theory and practice.
5. Develop a knowledge base and skills that enable students to interact effectively in a diverse, technologically-complex society.
6. Create an environment for the development of critical thinking skills.
7. Consider viewpoints other than one's own, including viewpoints associated with other cultures and traditions.
8. Commit to live as an engaged and informed citizen.
9. Reflect on one's life and learning experience.
10. Develop a respect for intellectual and religious freedom.

Tift College of Education Degree Programs
The Tift College of Education offers the following degree programs:
Bachelor of Science in Education
Master of Education (see Graduate Programs)
Specialist in Education (offered on the Atlanta Campus)

Undergraduate Programs

The Tift College of Education offers programs in Teacher Education on the Macon Campus. A student may major in The Holistic Child: Early Childhood and Interrelated (with ESOL option) or Middle Grades Education. In addition to these majors, the Tift College of Education, in conjunction with the College of Liberal Arts, offers certification programs in secondary education (7-12) and special subjects (P-12) for students enrolled in the College of Liberal Arts. Mercer's Teacher Education programs are accredited by the Georgia Professional Standards Commission.

The Undergraduate Degree Programs include the following:

Majors

The Holistic Child (P-5 certification and Interrelated Special Education certification with ESOL endorsement option)
Middle Grades Education (4-8 certification)

Certification Programs in conjunction with the College of Liberal Arts include the following:

Secondary (7-12 certification):
   - English
   - Mathematics
   - Broad-field Science
   - Broad-field Social Studies/History

P-12 Certification:
   - Music
   - Art
   - Foreign Language

Declaration of a Major

Students should file a Declaration of Major form with the Registrar prior to completing 64 semester hours. Forms for declaring a major are available from the Registrar's office.

Education Majors: Because of the sequencing of education and other required courses in teacher education, a student should declare his or her major as early as possible. However, declaring a major does not guarantee admission to the Teacher Education Program.

Please Note: Secondary Education is not a major. If you want to teach at the secondary level you must major in a content area. See the Tift College of Education Secondary Program Coordinator for more information.

Mercer University General Education

The five undergraduate schools and colleges of Mercer University are clearly distinct. The autonomy and traditions of each is respected. Although each school is unique, all have identified goals, objectives, and outcomes that they share and
that are reflective of a Mercer education. The objectives and specific outcomes, related to each major goal, do not constitute an exhaustive list but rather a summary of the central, intersecting objectives and outcomes.

Mercer University is dedicated to the ideal of educating the whole person and providing a foundation that can be described by the Greek term "Paideia." Paideia is consistent with the founding vision of Jesse Mercer as he sought to encourage learning and culture for both clergy and laity. Teaching, character development, service and leadership, classical education, and the nurturing of a prevailing culture are all instrumental. Mercer's aim is to prepare all students to contribute to society through a sharing of their knowledge, skills and character. Through the general education curriculum, Mercer University graduates will be able to:

A. Reason effectively
B. Demonstrate broad and deep knowledge
C. Demonstrate habits of free inquiry
D. Demonstrate an understanding of themselves in light of the values and traditions upon which the University was founded.

From these four goals flow the intended educational outcomes for general education at Mercer University:

A.
1. Communicate clearly, responsibly, and with integrity in written and oral forms
2. Master at least the basic principles of mathematical and scientific reasoning
3. Identify, access, and evaluate information and materials as needed for personal, academic, and professional purposes

B.
4. Acquire foundational knowledge important to becoming an informed person and/or for the major
5. Relate theory, principles, and content from one discipline to another
6. Demonstrate familiarity with cultures and traditions other than one's own

C.
7. Work as part of a team/group, to learn and teach cooperatively, to develop an appreciation of individual differences, and to assess one's own and other's roles in a working group
8. Consider viewpoints other than one's own, including viewpoints associated with other cultures and traditions
9. Commit to live as an engaged and informed citizen

D.
10. Reflect on one's life and learning experience
11. Develop a respect for intellectual and religious freedom
General Education Requirements

Consistent with its mission, the Tift College of Education requires a set of general education courses (general studies) that emphasize technology, cultural diversity, and global society. The following requirements are designed to meet the needs of residential undergraduate students seeking a degree in education.

<table>
<thead>
<tr>
<th>Category Courses</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman Experience</td>
<td>UNV 101</td>
</tr>
<tr>
<td>Communication</td>
<td>FYS 101 &amp; FYS 102</td>
</tr>
<tr>
<td>(4 courses)</td>
<td>CTA 256</td>
</tr>
<tr>
<td></td>
<td>CSC 125</td>
</tr>
<tr>
<td>Social Sciences and Humanities</td>
<td>1 course from:</td>
</tr>
<tr>
<td>(6 courses)</td>
<td>PSY 101</td>
</tr>
<tr>
<td></td>
<td>SOC 101</td>
</tr>
<tr>
<td></td>
<td>1 course from:</td>
</tr>
<tr>
<td></td>
<td>any History</td>
</tr>
<tr>
<td></td>
<td>1 course from:</td>
</tr>
<tr>
<td></td>
<td>any Christianity</td>
</tr>
<tr>
<td></td>
<td>1 course from:</td>
</tr>
<tr>
<td></td>
<td>any Literature</td>
</tr>
<tr>
<td></td>
<td>1 course from:</td>
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<tr>
<td></td>
<td>any Philosophy</td>
</tr>
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<td></td>
<td>1 course from:</td>
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<tr>
<td></td>
<td>ART 106,107</td>
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<tr>
<td></td>
<td>CTA 115, 272</td>
</tr>
<tr>
<td></td>
<td>MUS 104, 151, 195</td>
</tr>
<tr>
<td></td>
<td>EDUC 404 (required for The Holistic Child Major)</td>
</tr>
<tr>
<td>Cross Cultural and Global Studies</td>
<td>1 course from:</td>
</tr>
<tr>
<td></td>
<td>POL 312, 313</td>
</tr>
<tr>
<td></td>
<td>SCP 453, 455</td>
</tr>
<tr>
<td></td>
<td>SOC 326</td>
</tr>
<tr>
<td></td>
<td>SPN 111, 112, 251 or 252 (strongly recommended for majors in The Holistic Child)</td>
</tr>
<tr>
<td>Mathematics and Science</td>
<td>SCI 105</td>
</tr>
<tr>
<td>(3 courses)</td>
<td>1 course from:</td>
</tr>
<tr>
<td></td>
<td>MAT 104 or above</td>
</tr>
<tr>
<td></td>
<td>1 course from (a) or two modules from (b):</td>
</tr>
<tr>
<td></td>
<td>(a) BIO 210, 220</td>
</tr>
<tr>
<td></td>
<td>CHM 111, 112, 115</td>
</tr>
<tr>
<td></td>
<td>ENV 150</td>
</tr>
<tr>
<td></td>
<td>ESC 105, 110, 115</td>
</tr>
<tr>
<td></td>
<td>PHY 141 &amp; 141L, 161 &amp; 161L</td>
</tr>
<tr>
<td></td>
<td>(b) BIO 105, 106</td>
</tr>
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<td>CHM 103, 104</td>
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<td>ENV 103, 104</td>
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<tr>
<td></td>
<td>PHY 101, PHY/MUS 103</td>
</tr>
<tr>
<td></td>
<td>SCI 110</td>
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</tbody>
</table>

Total Hours minimum of 45
The Great Books Program

The Great Books program, available through the College of Liberal Arts, is allowed in the Tift College of Education as a means for meeting the General Education Requirements. The student is advised to see the Chair if interested in this program.

The Tift College of Education Conceptual Framework

Within the context of a distinctive Baptist heritage, the inclusion of the Paideia ideal, and the know-how of blending theory and practice, the Tift College of Education has chosen for its conceptual framework the theme: “The Transforming Practitioner - To Know, To Do, To Be.”

TO KNOW

To Know the foundations of the education profession, content bases for curricula, and characteristics of diverse learners.

1. Demonstrates knowledge of the philosophical, historical, sociological, legal, and psychological foundations of education.
2. Demonstrates expertise in the content bases for curricula, the appropriate uses of technology, good communication skills, and effective pedagogy.
3. Shows understanding of and respect for the characteristics, cognitive and social developmental stages, emotional and psychological needs and learning styles of diverse and special needs learners.

TO DO

To Do the work of a professional educator in planning and implementing well-integrated curricula using developmentally appropriate and culturally responsive instructional strategies, materials, and technology.

1. Plans, implements and assesses well-integrated, developmentally appropriate, and culturally responsive lessons which are well grounded in pedagogical and psychological theory.
2. Individualizes, differentiates, and adapts instruction to meet the needs of diverse and special needs learners.
3. Uses a wide variety of teaching methods, strategies, technology, and materials.

TO BE

To Be a reflective, collaborative, and responsive decision-maker, facilitator, and role model within the classroom, school, community, and global environment.

1. Uses feedback, reflection, research, and collaboration to enhance teaching performance, revise and refine instruction, make decisions, develop and modify instruction, and grow as a professional.
2. Models understanding, respect, and appreciation for diverse educational, cultural, and socioeconomic groups; a willingness to consider diverse opinions and perspectives; and concern for community and global awareness.
3. Models positive and effective interpersonal skills interacting with learners, parents, other educators and members of the community.

**Purposes**

The Teacher Education program is designed to prepare effective teachers by providing preservice students with:

1. A broad background in the liberal arts, including study in communication, literature, the social sciences, the arts, mathematics, and the natural sciences.
2. A knowledge base of subject area content appropriate to the particular certification area(s) and grade spans.
3. A knowledge base of educational foundations, educational psychology, human development, human exceptionalities, and parental and family dynamics.
4. A knowledge base of student and subject, appropriate methodologies, techniques, strategies, and technology appropriate for facilitating learning and enabling all students, including the exceptional, disabled, and culturally diverse, to become engaged and active learners.
5. The opportunities to demonstrate competency and effectiveness as a teacher through a sequentially planned series of field experiences that allow the student to begin with observation, move through tutorial, small-group, and whole-group teaching experience, and culminate with a 12-week student teaching experience.

Because of the recognition of the importance of addressing technological advancements within society, emphasis on the relevance of technological developments is infused throughout courses in the undergraduate program. Additionally, all course work within the Teacher Education program reflects the faculty's recognition of diverse and special needs students. The inclusive education of disabled students stresses the importance of the concept that regular educators must plan appropriately for disabled, special needs, and other diverse populations.

**Code of Ethics for Educators**

All students admitted into the Tift College of Education are expected to abide by the Code of Ethics for Educators as published by the Georgia Professional Standards Commission. Violation of any standard within the Code of Ethics may result in dismissal from the program.

**Admission to the Teacher Education Program**

A student wishing to major in The Holistic Child (ECE and Interrelated with ESOL option), or Middle Grades Education, or a student in the College of Liberal Arts seeking secondary (7-12) or special subject (P-12) certification must formally apply for admission to the Teacher Education program. Because of the sequencing of courses and because of prerequisite courses for admission, a student should declare his or her specific major or certification intent in the Tift College of Education as soon as possible and should obtain a copy of the *Teacher Education Handbook*. The Handbook may be obtained from the Tift College of Education section of Mercer’s web page at mercer.edu.
Criteria and Procedures for Admission to the Teacher Education Program

All students must formally apply for admission to the Teacher Education Program. Because of the sequencing of courses and because of prerequisite courses for admission, a student should declare his or her specific major or certification intent in the College of Education and should obtain a copy of the Teacher Education Handbook in the first semester of enrollment. The Teacher Education Handbook is found on-line and is discussed at Orientation or in designated classes.

After a student is admitted to the Teacher Education Program, that student must continue to make satisfactory progress. The Tift College of Education reserves the right to review periodically the progress of each student and also reserves the right to remove any student from a Teacher Education Program for failing to continue to meet the established criteria and policies in effect at the time of admission, and/or for demonstrating conduct that has been judged unethical or illegal based on the Code of Ethics, on the Mercer University Honor Code, on the Standards of Conduct published by the Georgia Professional Standards Commission (PSC). If a student is denied admission to Teacher Education, that student must meet any revised admission requirements in effect at the time of reapplication.

Level I: Provisional Admission

This is the first level of admission for the student who wishes to proceed in teacher education with the intent to seek a degree and/or initial certification. A student may take only EDUC 220, EDUC 225, and EDUC 256 under provisional admission status. A Holistic Child student may take only EDUC 101, EDUC 102, EDUC 102B, EDUC 201, EDUC 202, EDUC 201A, and EDUC 202B under provisional admission status. Other education courses require full admission status. For Georgia students seeking the Promise Scholarship, Provisional Admission status will not meet the current requirement that a student be admitted into a Teacher Education Program.

To be provisionally admitted, a student must:

1. Submit a Prospective Teacher Candidate Data Sheet.
2. Have a cumulative GPA of 2.5.
3. Have taken and earned no grade below a "C" in FYS 101 and FYS 102 or ENGL 105 and ENGL 106.
4. Have taken and earned no grade below a "C" in the Math core class.
5. Have taken and earned no grade below a "C" in public speaking (Not applicable for secondary and P-12).
6. Attend a Teacher Education Orientation session.

When students apply for admission to the Teacher Education Program, applications are forwarded to the Teacher Education Admissions Committee. Admission status letters are sent from the Teacher Education Admissions Committee Chair. Any admission appeals should follow the procedure outlined in the Teacher Education Handbook.
Level II: Full Admission

Full admission is required before a student can enroll in any education course numbered 300 or above. The student will receive written notification of the admission decision from the Tift College of Education Teacher Education Admissions Committee Chair. For Georgia students seeking the Promise Scholarship, full admission is the only status that will meet the current requirement that a student be admitted into a Teacher Education program.

To be fully admitted, a student must:

1. Meet all criteria for provisional admission (see above).
2. Submit an application for candidacy in the semester prior to registering for any education courses numbered 300 or above.
3. Have passed all 100-200 level education courses taken and have earned no grade below a "C" in any courses required for the major, including courses required for areas of concentration in middle grades and for certification in secondary and P-12 content areas.
4. Have met all Praxis I criteria as set by the Georgia Professional Standards Commission. Students may be exempt from this requirement if they provide official documentation of qualifying scores on any of these tests: SAT, GRE, or ACT. Required passing scores are listed in the Teacher Education Handbook.
5. Declare a major in Teacher Education. Secondary/P-12 students need to declare the appropriate major in the College of Liberal Arts and need to list Education as a Second Major or Area Specialization.

Progression Policy

In order for a student to continue in the Teacher Education Program and to register for education courses numbered 300 or above, he/she:

1. Must meet and must maintain all requirements for Full Admission to the Teacher Education Program.
2. Must maintain a cumulative GPA of 2.5 or better.
3. Must maintain a 2.75 GPA or better in all education courses required for the major, including courses required for areas of concentration in middle grades and for certification in secondary and special subjects.
4. Must successfully complete all education courses. A student who receives a grade below "C" in more than 2 education courses will be dismissed from the Teacher Education Program.
5. May repeat only 2 education courses. A teacher education course may be repeated only one time.
6. Must have positive recommendations from each field experience in order to advance in the sequence of field experiences (Fieldwork I, Fieldwork II, Practicum, Student Teaching, or in the sequence outlined in the Holistic Child Program). Field experience placements must meet all diversity of placement criteria.
7. May have no more than 8 hours of general education coursework to be completed in the term following student teaching.
Repeating Courses

A grade point average of at least 2.75 is required in all professional education courses. Students also must maintain a 2.75 GPA or better in all courses required for the major, including courses required for areas of concentration in middle grades and for certification in secondary and special subjects (P-12).

Students must earn a minimum of a "C" in all required courses for certification. Students may repeat no more than two (2) such courses. If a student receives less than a "C" in more than two (2) education courses, the student will be dismissed from the Teacher Education Program. A teacher education course may be repeated only one time.

Level III: Candidate for Certification

Admission to Level III is required prior to official recommendation by the Tift College of Education for teacher certification.

In order to be recommended for certification, a student must:
1. Successfully meet all Level II criteria and Progression Policy criteria.
2. Have a positive recommendation from student teaching.
3. Have passed the appropriate Praxis II test(s) and have submitted scores to the Office of Field Placement and Certification.
4. Meet all state requirements for certification.

Transfer Student Admission Policy

Undergraduate transfer students who wish to enter the Teacher Education program must meet all criteria before being fully admitted.

Teacher Education Field Experience

Field experiences in the Teacher Education Program (i.e., Fieldwork I, Fieldwork II, Professional Practicum, Student Teaching, Internship) are carefully designed to prepare prospective teachers to work effectively in school classrooms. The field experiences are systematically selected and sequenced to provide opportunities for prospective teachers to observe, plan, and practice in a variety of settings appropriate to the professional roles for which they are being prepared. Specific policies and procedures have been established to facilitate the field experiences of Mercer's Teacher Education students in the schools. These policies are available in the Teacher Education Handbook.

Field placement clusters are as follows:

<table>
<thead>
<tr>
<th>ECE</th>
<th>FWI</th>
<th>FWII</th>
<th>Practicum</th>
<th>Student Teaching</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-K</td>
<td></td>
<td>1-3 or 4-5</td>
<td>Cluster not chosen for FW II</td>
<td>K-5</td>
</tr>
<tr>
<td>MG</td>
<td>6-8</td>
<td>4-5</td>
<td>6-8</td>
<td>6-8</td>
</tr>
<tr>
<td>SEC</td>
<td>9-12</td>
<td>7-8</td>
<td>9-12</td>
<td>9-12</td>
</tr>
<tr>
<td>P-12</td>
<td>P-5, 6-8 or 9-12</td>
<td>Cluster not chosen for FW I</td>
<td>Cluster not chosen for FW I or FW II</td>
<td>P-12 with Approval of Advisor</td>
</tr>
</tbody>
</table>
THE HOLISTIC CHILD MAJOR

The Holistic Child program at Mercer University offers an academic perspective to the candidate that values the individual and authentic worth of the young child through the inclusive lens of the regular classroom. Following an integrated, technologically immersed curriculum, the candidate will experience varied field and life experiences within the culture of diverse school and community populations. Having completed this four-year program of study, the Holistic Child candidate will become a reflective practitioner, advocating the needs and rights of the young child, while collaborating and establishing partnerships with parents, schools, and communities.

Program Objectives - Outcomes

Upon completion of the Holistic Child Program, the candidate will:

1. Understand the young child from a holistic perspective with an emphasis upon the cognitive, affective, and psychomotor domains - as well as the child's environment. To Know

2. Recognize the participatory and advocacy role of an educator of young children. To Know

3. Understand the collaborative relationship that is necessary with other professionals and parents in planning and implementing instructional programs. To Know

4. Appreciate the importance of community in working with all children and their diversity, including ethnic, language, cultural, socio-economic, disabilities, and gender. To Know

5. Integrate technological advances as a routine part of the curriculum (InTech-based instruction). To Do

6. Know self as an individual and recognize one's point of growth along the continuum of teaching as an emerging, developing, and transforming practitioner. To Be

7. Construct and implement an integrated, developmentally appropriate curriculum for all areas of a child's development, including cognitive, emotional, social, and physical. To Do

8. Demonstrate competency in developing and implementing a wide variety of diagnostic and assessment techniques and strategies. To Do

The Holistic Child
B.S.Ed. Degree
128 Semester Hours

Requirements

General Studies . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .50 min. hours

Professional and Pedagogical Studies . . . . . . . . . . . . . . . . . . . . .39 hours

EDUC 101. The Holistic Child I
EDUC 102. The Holistic Child II
EDUC 201. The Learning and Developing Child I
EDUC 202. The Learning and Developing Child II
EDUC 311. The Learning Environment I
EDUC 313. The Learning Environment II
EDUC 102B. Field Component 1B
EDUC 201A. Field Component II A
EDUC 202B. Field Component II B
EDUC 311A. Field Component III A
EDUC 313B. Field Component III B
EDUC 480. Field Component IVA
EDUC 496. Field Component IV B

Content Studies ........................................................................36 hours
EDUC 315. Curriculum Planning
EDUC 316. Collaboration
EDUC 317. Social and Cultural Studies
EDUC 334. Literature and Language Arts
EDUC 331. Math/Science Methods
EDUC 332. Teaching Reading
EDUC 333. Curriculum-based Assessment
EDUC 402. Reading Problems — Diagnosis/Remediation
EDUC 403. The Home, School, and Community Connection
EDUC 405. Classroom Management
EDUC 404. The Holistic Capstone: A Fine Arts Approach
[NOTE: Credit for this 3 hour class is included under the general studies requirements.]

Elective ................................................................................3 hours
TOTAL ................................................................................128 semester hours

ESOL Endorsement for The Holistic Child Program

Requirements

EDUC 310. Linguistics/Sociolinguistics:
Language, Culture, and Cognition (3)
EDUC 312. Teaching Speakers of Other Languages with Field Component (4)
EDUC 314. ESOL Methods and Materials (3)

Total Hours ...........................................................................10 hours

The Holistic Child Schedule of Courses (with ESOL option)

<table>
<thead>
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<th>Fall Semester</th>
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<td>1st Year</td>
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<td>EDUC 101</td>
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<td>EDUC 102B</td>
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<td>EDUC 201</td>
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<td>EDUC 201A</td>
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3rd Year
EDUC 311       EDUC 313
EDUC 315       EDUC 331
EDUC 316       EDUC 332
EDUC 317       EDUC 333
EDUC 311A      EDUC 334
                EDUC 313B

Summer 2 - ESOL Option
EDUC 310
EDUC 312
EDUC 314

4th Year
EDUC 402       EDUC 405
EDUC 403       EDUC 496
EDUC 404
EDUC 480

MIDDLE GRADES EDUCATION

Middle level teachers will develop the knowledge, skills, and attitudes necessary to provide developmentally appropriate learning experiences for middle level students.

Although coursework is geared toward preparing teachers to work with young adolescents, that focus is considered in a 4-8 framework.

Program Objectives/Outcomes - Initial Level

"The Emerging Middle Grades Transforming Practitioner"

I. TO KNOW: Content and Process

The emerging teacher will:

1. Understand the foundations of education and their roles in the development of middle grades education programs.
2. Understand and appreciate the key concepts and organization of middle level education.
3. Possess a strong content knowledge base in language arts, mathematics, science, and social studies, with concentrations in at least two of these areas.
4. Possess the ability to make connections among the academic content areas.
5. Understand the needs of the adolescent learner.

II. TO DO: Application

The emerging teacher will:

1. Select academic tasks to engage middle grades students' interests and intellectual levels.
2. Utilize effective teaching pedagogy to make connections among academic knowledge, the nature and needs of the adolescent, and the cultural influences of the student, school, and community.
3. Integrate theory and practice in the improvement of the teaching/learning process.
4. Orchestrate classroom discourse in ways that promote the investigation and growth of a variety of ideas.
5. Model behaviors and standards of the middle grades teaching profession.
6. Collaborate effectively with colleagues in decision-making processes.

III. TO BE: Attitude

The emerging teacher will:
1. Consider a personal and professional attitude related to one's involvement with the teaching profession and the challenges faced by the middle grades educator.
2. Deliberate thoughtfully during field experiences and student teaching to refine teaching practices.
3. Reflect upon experiences as a basis for decision-making in middle grades teaching.
4. Demonstrate awareness, sensitivity, and knowledge of cultural influences upon teaching and learning in the middle grades.

In addition to the seven areas of competence mentioned above, the program will include three themes/threads: 1) Technology, 2) Diversity, and 3) Deliberation. These threads are woven into courses and field experiences throughout the middle school program.

MIDDLE GRADES EDUCATION
B.S. Ed. Degree
128 Semester Hours

Requirements

General Studies: .............................................................. 45 hours

Professional and Pedagogical Studies: .......................... 33 hours
EDUC 225. Introduction to Teacher Education
EDUC 256. Child and Adolescent Development
EDUC 220. Cornerstone for the Profession
EDUC 357. Psychology of Learning
EDUC 383. Introduction to Special Education
EDUC 398. Fieldwork I
EDUC 399. Fieldwork II
EDUC 485. Professional Practicum
EDUC 492. Student Teaching

Content Studies: .............................................................. 64 hours
18 sem. hrs. overlap with General Studies and Methods courses.
EDUC 301. Technology in Education
EDUC 360. Nature and Needs of the Middle Grades Learner
EDUC 422. Teaching Science for MGE
EDUC 425. Health for MGE
EDUC 429. Teaching Social Studies for MGE
# MIDDLE GRADES CONCENTRATIONS

**MGE candidates choose two concentrations:**

**Language Arts Concentration**
- EDUC 478. Teaching Literacy MGE
- EDUC 466. Teaching Lang Arts MGE
- EDUC 379. Young Adult Literature
- ENG 307. Essay Writing
- ENG 323. History of Eng Lang
- ENG 308. Intro to Poetry Writing or
- ENG 305. Intro to Essay Writing
  
- ENG 359. African Amer Lit or
- ENG 360. African Amer Lit

**Science Concentration**
- EDUC 422. Teaching Science MGE
- SCI 105. Scientific Inquiry
- ESC 105. Geology
- ESC 110. Meteorology
- BIO 210. Intro to BIO I
- BIO 211. Intro to BIO II
  
- Choice of one
  - CHM 103. Chem of Mod Materials
  - CHM 104. Household Chem
  - CHM 108. Concepts of Chem
  - CHM 111. General Chem I
  - CHM 112. General Chem II
  - ESC 115. Descriptive Astronomy
  - PHY 141-141L. Intro to Physics
  - PHY 161-161L. General Physics I

**Mathematics Concentration**
- EDUC 455. Teaching Math MGE
- MAT 133. Precalculus
- MAT 191. Calculus I
- MAT 340. Linear Algebra
- MAT 350. College Geometry
- MAT 192. Calculus II
- MAT 260. Intro to Abstract Math

**Social Sciences Concentration**
- EDUC429. Teaching Social Studies
- HIS 111. World Civilization I or
- HIS 112. World Civilization II
- HIS 165. Problems in Am History
- HIS 365. History of Georgia
- GEO 300. Cultural Geography
- POL 101. American Government or
- POL 305. State and Local Government
  - HIS 324. Sub-Sahara Africa or
  - POL 313. Middle East Politics

**Concentration I** .................................................. **min. of 21 hrs.**

**Concentration II** .................................................. **min. of 21 hrs.**

*For each concentration, the 21 semester hours will include the methods course and 6 content courses.

*Up to three (3) courses from General Studies may count toward each concentration.

**TOTAL** .................................................. **128 semester hours**
### MIDDLE GRADES EDUCATION
### SCHEDULE OF COURSES

<table>
<thead>
<tr>
<th>Fall Semester</th>
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<tr>
<td><strong>1st/2nd Yr.</strong></td>
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<td>EDUC 225</td>
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<td>EDUC 256</td>
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<td><strong>3rd Yr.</strong></td>
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<td>EDUC 256</td>
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<td>EDUC 220</td>
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<td><strong>4th Yr.</strong></td>
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<td>August Experience</td>
<td>EDUC 492</td>
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<td>EDUC 301</td>
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<td>EDUC 460</td>
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<td>EDUC 485</td>
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*Two Concentrations (minimum 21 semester hours for each concentration)*

*Up to three courses from the core may count toward each concentration.*

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### CERTIFICATION PROGRAMS
#### SECONDARY/P - 12 CERTIFICATION

Secondary preservice teachers will develop knowledge, skills, and attitudes necessary to provide meaningful learning experiences for all students.

#### PROGRAM OBJECTIVES/Outcomes - Initial Level

"The Emerging SEC/P - 12 Transforming Practitioner"

See individual program descriptions in the *Teacher Education Handbook* for specific objectives related to each certification.

#### Requirements

**Professional and Pedagogical Studies:** ........................... 33 hours

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<tr>
<th>Course</th>
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<tr>
<td>EDUC 225</td>
<td>Introduction to Teacher Education</td>
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<td>Professional Practicum</td>
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<td>EDUC 492</td>
<td>Student Teaching</td>
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Strongly Recommended
EDUC 301. Technology in Education

Content Studies: Varies by Major
EDUC 469. Secondary School Curriculum
EDUC 476. Teaching Literacy 7-12

Methods:
- English (7-12): EDUC 468. Teaching English/Language Arts
- Mathematics (7-12): EDUC 456. Teaching Mathematics in the Secondary School
- History (7-12) & Broad-field Social Studies (7-12): EDUC 430. Teaching Social Studies in the Secondary School
- Broad-field Science (7-12): EDUC 423. Teaching Science in the Secondary School
- Art (P-12): EDUC 411. Art Education: The Early & Middle Years
- EDUC 413. Art Methods and Media
- Foreign Language (P-12):
  - EDUC 467. Foreign Language Methodology I: Reading and Writing
  - EDUC 470. Foreign Language Methodology II: Speaking and Listening
- Music (P-12):
  - EDUC 372. The Secondary School Music Program-Methods and Techniques

Other methods courses to be listed

Contact the Secondary/P-12 Program Coordinator for other required methods courses, or consult the Teacher Education Handbook.

Major: Students must meet the requirements for a degree in the relevant major and any additional courses required for certification:
- English (7-12)
- Mathematics (7-12)
- History (7-12)
- Broad-field Social Studies (7-12)
- Broad-field Science (7-12)
- Art (P-12)
- Foreign Language (P-12)
- Music (P-12)

TEACHER EDUCATION MINOR

Students seeking a minor in Teacher Education must make formal application to the Teacher Education Program. To be admitted for the purpose of seeking a minor in education, an applicant must have a cumulative GPA of 2.5. Further, to take courses numbered 300 and above, the applicant must meet all other criteria established for full admission to the Teacher Education Program:

1. Have taken and earned no grade below a "C" in FYS 101 and 102 or ENGL 105 and 106
2. Have taken and earned no grade below "C" in the math core class
3. Have taken and earned no grade below a "C" in public speaking (Not applicable for secondary and P-12)

4. Have passed all Praxis I criteria with a score that reflects the minimum score set by the Georgia Professional Standards Commission. (An applicant may be exempt from the Praxis I requirement if he/she provides official documentation of qualifying scores on any one of these tests: SAT, ACT, or GRE.)

This minor is available to all Mercer students; however, the courses listed below will not fulfill requirements for teacher certification.

Teaching Education Minor .........................................................16 Semester Hours
EDUC 256. Child and Adolescent (3 hours)
EDUC 220. Cornerstone for the Profession (3 hours)
EDUC 357. Psychology of Learning (3 hours)
EDUC 383. Introduction to Special Education (3 hours)
EDUC 301. Technology in Education (3 hours)
EDUC 398. Fieldwork I (1 hour)

EDUCATION (EDUC)

101, 102. The Holistic Child I & II (3 hours)
Co-requisite: EDUC 102B.
The Holistic Child I & II provide an overview of the social, philosophical, historical, legal, and psychological issues in education. The needs of all children are considered from the perspectives of inclusion and regular education. The special needs of all young children are intertwined throughout the courses to give the candidate an integrated notion of providing appropriate educational practices in the setting of the regular classroom. (3 hours each)

102B. Field Component I B - The Holistic Child (1 hour)
Co-requisite: EDUC 102.
These field experiences provide a field-based experience for students enrolled in The Holistic Child program. Students spend a minimum of 20 hours observing and participating in a variety of community-based settings in activities related to and associated with young children (P-5). (1 hour) Note: Grades of Satisfactory (S) or Unsatisfactory (U). Special Fee.

201, 202. The Learning and Developing Child I & II - The Holistic Child (3 hours)
Prerequisites: EDUC 101, 102, 102B.
The purpose of these courses is to investigate the physical, social, emotional, and educational characteristics of young children. Particular emphasis will be placed on individuals with mild intellectual disabilities, emotional and behavioral disorders, and learning disabilities, in conjunction with current theories and practices regarding definitions, litigation and legislation, assessment, advocacy, and educational resources. (3 hours each)

201A, 202B. Field Component II A & B - The Holistic Child (1 hour)
Prerequisite: EDUC 102B.
These courses provide field-based experiences for students enrolled in the Holistic Child program. Students spend a minimum of 35 hours over a ten (10) week period in each semester observing and participating in activities related to
and associated with young children (P-5) in a regular education and in a special
needs classroom setting. Students are placed in one of the two settings for 201A
and the other setting for 202B. Students are required to attend field component
seminars as scheduled. (1 hour each) Note: Grades of Satisfactory (S) or
Unsatisfactory (U). Special Fee.

220. Cornerstone for the Profession (3 hours)
This course will address topics of historical, philosophical, sociological, ethical,
and professional significance to the discipline of education and will include a
study of federal and state educational policies, laws related to education, and
international education. Students will be expected to think and write critically
about issues in education.

221. Performance and Instruction Techniques: Woodwinds (2 hours)
(Same as MUS 221)
Development of personal performance skills on flute, clarinet, saxophone, oboe
and bassoon; knowledge of the technical considerations of the other members of
the flute, clarinet, and saxophone families of instruments. Instruction in methods
and techniques for elementary and secondary school music teachers. Survey and
evaluation of materials and equipment.

222. Performance and Instruction Techniques: Percussion (2 hours)
(Same as MUS 222)
Development of personal performance skills on snare drum, timpani, mallet
instruments and other commonly used percussion instruments. Instruction in
methods and techniques for elementary and secondary school music teachers.
Survey and evaluation of materials and equipment.

223. Performance and Instruction Techniques: Brass (2 hours)
(Same as MUS 223)
Development of personal performance skills on cornet or trumpet, horn, trom-
bone, euphonium, and tuba. Instruction in methods and techniques for elemen-
tary and secondary school music teachers. Survey and evaluation of materials
and equipment.

224. Performance and Instruction Techniques: Stringed Instruments (2 hours)
(Same as MUS 224)
Development of personal performance skills on violin, viola, violoncello, and dou-
ble bass. Instruction in methods and techniques for elementary and secondary
school music teachers. Survey and evaluation of materials and equipment.

225. Introduction to Teaching (1 hour)
This course is an introduction to teaching and to the Teacher Education Program
at Mercer University. Current educational issues will be examined. (Graded on
S/U basis)

256. Child and Adolescent Development (3 hours)
A study of the principles of growth and development from conception through
adolescence. Specific attention will be given to the influences of family on physi-
cal maturation, cognitive and linguistic development, social skills, and personality
development.

301. Technology in Education (3 hours)
Prerequisite: Full Admission Status
This course provides an introduction to the integration of technology within education. An overview of current technologies will be provided with special emphasis upon the personal computer, resources available through the Internet, and instructional software.

310. Linguistics/Sociolinguistics - ESOL Endorsement (3 hours)  
Candidates examine the language, culture, and cognition of students for whom English is a second language. Content includes exploration of topics on the relationship between language and culture and on pedagogical principles relevant to a multicultural educational setting.

311, 313. The Learning Environment I & II - The Holistic Child (3 hours)  
Prerequisites: EDUC 101, 102, 201, 202.  
Co-requisites: EDUC 311A, 313B.  
Building a Learning Environment I & II comprises four major elements: Supporting the Nature of the Learners, Methods of Teaching, Collaboration, and Students for whom English is a Second Language. This block of courses provides the candidate with the opportunity to appreciate the importance of community in working with all children and their diversity. Emphasis will be given to understanding the components of building a supportive learning environment through appropriate instructional strategies, the utilization of effective collaborative skills, and effective pedagogy for culturally and linguistically diverse students. (3 hours each)

311A, 313B. Field Component III A & B - The Holistic Child (1 hour)  
Prerequisites: EDUC 102B, 201A, 202B; Full Admission into Teacher Education for Holistic Child Program.  
Co-requisites: EDUC 311, 313.  
These courses provide field-based experiences for candidates enrolled in the Holistic Child Program. Candidates spend a minimum of 35 clock hours over a ten (10) week period in each semester observing and participating in activities related to and associated with young children (P-5) in a regular education and in a special needs classroom setting. Candidates will be placed in one of the two settings for Field Component 311A and in the other setting for Field Component 313B. If possible, these classrooms are in the same school. Students are required to attend field component seminars as scheduled. (1 hour each) Note: Grades of Satisfactory (S) or Unsatisfactory (U). Special Fee.

312. Teaching Speakers of Other Languages - ESOL Endorsement (4 hours)  
Candidates explore current educational trends, issues, policies and practices involved in ESOL instruction. Demonstrating competence in listening, speaking, writing, and reading of standard English, candidates acquire knowledge of and experience in first and second language acquisition. Particular attention is given to both native and second language acquisition, with attention to regional, social, and functional variations in language.

314. ESOL Methods and Materials - ESOL Endorsement (3 hours)  
Candidates learn curricular and material design, as well as methods of teaching non-native speakers of English. Candidates apply assessment techniques and instruments through the use of technology. Providing materials and services beyond ESOL, such as the Even Start Family Literacy Program, the Migrant
Education Program, Gifted Education, and the Language Disorder Program will be examined.

315. Curriculum Planning - The Holistic Child (6 hours)
Prerequisite: Full Admission into Teacher Education for The Holistic Child Program.
Candidates focus on the development, design, and implementation of an integrated, developmentally appropriate curriculum for all areas of a child's development, including: cognitive, emotional, social, and physical. Topics to be studied include curriculum structure and content, instructional goals and objectives, integration of course content, developmentally-appropriate practices, interrelated education, and methods for assessing student performance.

316. Collaboration - The Holistic Child (3 hours)
Prerequisite: Full Admission into Teacher Education for The Holistic Child Program.
Candidates explore the collaborative needs of the teachers in an inclusive regular classroom. Emphasis is placed on collaborative practices between teacher and the child, the parents, and various agencies involved in meeting the needs of all learners within the classroom. Ethical principles that govern school-based consultations are examined.

317. Social and Cultural Studies - The Holistic Child (3 hours)
Prerequisite: Full Admission into Teacher Education for The Holistic Child Program.
This course introduces students to the theory, knowledge, and strategies to teach the culturally diverse student populations in today's classrooms. This course goes beyond the usual rhetoric on promoting diversity to present real world guidance and recommendations for successful teaching in the changing classroom environment. Methods for teaching the social sciences are examined from an interdisciplinary approach.

331. Methods for Science and Mathematics - The Holistic Child (3 hours)
Prerequisite: Full Admission into Teacher Education for The Holistic Child Program.
This technology-based course uses the basic principles of mathematics and science to assist candidates in developing instruction to meet the needs of all children. Instructional units show the developmentally-appropriate nature of science and mathematics as instruction progresses from P-4 to 5th grades. Research-based principles of successful adaptations to instruction that meet the needs of students with exceptionalities and diverse cultures are incorporated throughout the course.

332. Teaching Reading - The Holistic Child (3 hours)
Prerequisite: Full Admission into Teacher Education for The Holistic Child Program.
A foundation of literacy experiences for young children is examined. The goal of the course is to support the understanding of candidates in how literacy is acquired by primary children. Candidates become familiar with stages of literacy development, approaches and strategies for teaching literacy from an inclusion perspective, and the integration of communication skills across the curriculum.
333. Curriculum-based Assessment - The Holistic Child  (3 hours)
Prerequisite: Full Admission into Teacher Education for The Holistic Child Program.
The Curriculum-Based Assessment course provides teacher education candidates the fundamental knowledge and skills to select, create, and implement forms of assessment (both formal and informal) that are developmentally appropriate, diagnostically reliable, and educationally sound. The emphasis of the course is on classroom assessment of the whole child in inclusive P-5 settings.

334. Language Arts and Literature - The Holistic Child  (3 hours)
Prerequisite: Full Admission into Teacher Education for The Holistic Child Program.
Candidates become knowledgeable in strategies for teaching language as an integrative process. An introduction to the genres of children's literature includes contemporary literary criticism, selection and analysis of quality literature, appropriate integration of literature across the curriculum, and instruction application of language arts and response theory in literature. Attention is given to assessing and adjusting instruction to meet the reading, speaking, writing, and reading needs of all students.

357. Psychology of Learning  (3 hours)
Prerequisite: Full admission status
The discipline of psychology is used to address educational issues and learning theory. Particular attention will be paid to individual student differences. The focus will be on variations in styles of learning while acknowledging gender and diversity.

360. Nature and Needs of the Middle Grades Learner  (3 hours)
This introductory course will examine middle schools, the development of the middle school concept, and topics considered necessary for effective middle school operations. Emphasis will be placed upon the basic techniques for planning, organizing, and assessing instruction at the middle school level.

370. The Elementary School Music Specialist  (3 hours)
(Same as MUS 370)
Methods and techniques for structuring and guiding music education in the elementary school. Particular attention to the development of children's voices. Acquaintance with Orff and Kodaly approaches. Field study in elementary school classrooms. Intended for music education majors.

372. The Secondary School Music Program - Methods and Techniques  (3 hours)
Effective procedures for recruiting, organizing, planning, and maintaining a successful program of vocal and instrumental music instruction and performance in the secondary schools. Discussion of philosophies of music education. Field study of successful programs and discussions with leaders in the music education profession.

378. Children's Literature  (3 hours)
Prerequisites: EDUC 300 and 305.
The course provides an introduction to the genres of literature for young children. Areas of focus include selection and analysis of quality literature, appropriate integration of literature across the curriculum, and application of response theory in literature.
379. Young Adult Literature (3 hours)
Prerequisites: EDUC 300 and 325.
This course provides an introduction to and survey of young adult literature for middle and secondary school students. Emphasis will be placed on using young adult literature to create life-long learners. Areas of focus include survey of the different genres of young adult literature, utilization of young adult literature in all content areas in the middle and secondary schools, and censorship.

383. Introduction to Special Education (3 hours)
Prerequisite: Full admission status
This course presents a survey of the characteristics and process of identification of students with various disabilities. An overview of basic instructional strategies for teaching disabled students in the regular classroom setting will be provided. This course satisfies the requirement for Georgia certification.

390. Special Topics (1-3 hours)
Prerequisites: Consent of Program Director and Department Chair.
This course offers a study of some significant topic in education that is not available through other program offerings.

398. Fieldwork I (1 hour)
Prerequisite: Full admission status
This course provides a seven-week school-based experience for education students. Students will be assigned to diverse public schools and will spend a minimum of five clock hours per week observing and participating, on a limited basis, in classroom-related activities. Students are required to attend Fieldwork I seminars. Note: Grades of Satisfactory (S) or Unsatisfactory (U). Special Fee.

399. Fieldwork II (1 hour)
Prerequisites: Application required; EDUC 225, 256, 305 or 307, or 360, 357 and Full Admission Status.
This course provides a seven-week school-based experience for education students who submit an application to the Coordinator of Field Experiences before or during Spring registration. Students will be assigned to diverse public schools and will spend a minimum of five clock hours per week observing and participating in teaching and learning activities. Students will publicly reflect on their Fieldwork II experiences during Spring Semester seminars. Note: Grades of Satisfactory (S) or Unsatisfactory (U). Special Fee.

402. Reading Problems: Diagnosis & Remediation - The Holistic Child (6 hours)
Prerequisites: Full Admission into Teacher Education for Holistic Child Program. Completion of 300 level courses in The Holistic Child Program. Candidates understand reading problems in the regular classroom through an inclusive lens. Specific diagnostic tools, corrective techniques, preventive measure, and ways to interpret and synthesize data gathered are examined.

403. Connecting Homes, School, and Community - The Holistic Child (3 hours)
Prerequisites: Full Admission into Teacher Education for Holistic Child Program. Completion of 300 level courses in The Holistic Child Program. Content examines the importance of collaboration among the home, school, and broader community in the education of young children. Ways in which young children's learning, behaviors, viewpoints, and habits are affected by family, by school
personnel, and by members of the immediate and large community are addressed.

404. The Holistic Capstone: A Fine Arts Approach -
The Holistic Child (3 hours)
Prerequisites: Full Admission into Teacher Education for Holistic Child Program. Completion of 300 level courses in The Holistic Child Program. Designed to allow candidates to effectively explore ways that promote creative choices in using and presenting curriculum through the visual arts, drama, dance and music. Candidates learn how to plan and facilitate projects involving visual arts content, create and present productions, help students become responsible movers in space, and use music to support learning across the curriculum.

405. Classroom Management - The Holistic Child (3 hours)
Prerequisites: Full Admission into Teacher Education for Holistic Child Program, EDUC 480. Completion of 300 level courses in The Holistic Child Program. This course is an introduction to theory, knowledge, and strategies for classroom management for education who work with early childhood and special needs students. Focus is on organizing the classroom, rules and procedures, and student behavior in three areas: general, problems, and special groups.

411. Art Education: The Early and Middle Years (3 hours)
(Same as ART 411)
Prerequisite: Full Admission Status. A study of methods, materials, and curriculum appropriate for guiding art activities in kindergarten through grade eight. Does not count toward the art major.

413. Art Methods and Media (3 hours)
(Same as Art 413)
Prerequisites: ART/EDU 411 and Full Admission Status. A study of methods, media, and materials for teaching art at the secondary level in the public schools. Field experience required. Does not count toward the art major.

422. Teaching Science for MGE (3 hours)
Prerequisites: EDUC 225, 256, 325, 357, 360 and Full Admission Status. This course addresses science content, process skills, attitudes, and real-world applications which are developmentally appropriate for middle grades science instruction. Effective planning and teaching strategies which incorporate integrated and interdisciplinary approaches, technology, literature, and multi-cultural education are combined with the theories of learning.

423. Teaching Science for Secondary (3 hours)
Prerequisites: EDUC 225, 256, 325, 357 and Full Admission Status. This course will provide emphasis on strategies for developing scientific literacy in the secondary school. Emphasis will be placed on active pupil involvement through the use of investigative and inquiry teaching strategies to provide experience in gathering data and solving problems in a cultural context. Course includes laboratory and technology.

425. Health for MGE (1 hour)
This course is a study of issues such as sex, drugs, alcohol, stress management, and self-esteem as they relate to the teaching of the various phases of physical and health education in the middle school through a theoretical and practical approach.
429. Teaching Social Studies for MGE (3 hours)
Prerequisites: EDUC 225, 256, 325, 357, 360 and Full Admission Status.
The application of transcendent learning theories will be combined with effective
teaching strategies that encourage success in social studies for all. The interdis-
ципliinary nature of social studies will be the focus for the study of curriculum,
methods, technology, and professional sources. An emphasis will be on the plan-
ning for and development of resources (including the development of a unit).

430. Teaching Social Science for Secondary (3 hours)
Prerequisite: Full Admission Status.
This course is designed to provide an understanding of curriculum, methods,
media, materials, and technology appropriate for teaching the social sciences in
the secondary classroom. Emphasis will be placed on knowledge of available pro-
fessional sources and on developing instructional materials suitable for high
school students.

455. Teaching Mathematics for MGE (3 hours)
Prerequisites: EDUC 225, 256, 325, 357, 360 and Full Admission Status.
An overview of the essential components in middle grades mathematics for all
children is the focus of this course. Study includes methods, materials, media,
technology, and techniques for diagnosing, correcting, teaching, and evaluating
mathematics in grades 4-8.

456. Teaching Mathematics in the Secondary School (3 hours)
Prerequisites: MAT 133, 350 and Full Admission Status.
Study includes developmentally appropriate methods, materials, media, technol-
yogy, and techniques for diagnosing, correcting, teaching, and evaluating mathe-
ematics in grades 7-12.

460. Middle School Curriculum (3 hours)
Prerequisites: EDUC 225, 256, 325, 357, 360 and Full Admission Status.
Corequisite: EDUC 485.
The development of middle school curriculum as it has been shaped by sociocul-
tural and technological forces will be examined. Topics to be studied include curri-
culum planning and assessment, common core curriculum, advisee/advisor cur-
culum, exploration, school activities, integrating the curriculum, and instruction-
al practices appropriate for the young adolescent learner. Issues, trends, and
research relevant to effective middle-level instructional practices are discussed.

466. Teaching Language Arts/MGE (3 hours)
Prerequisites: EDUC 225, 256, 325, 357, 360 and Full Admission Status.
A study of methods, media, and materials for teaching Language Arts at the mid-

dle school level, including theory, research, curriculum, units of study, and evalua-
tion.

467. Foreign Language Methodology I: Reading & Writing (3 hours)
Prerequisite: Permission of Secondary/Special Subjects Program Coordinator.
Evaluation of the objectives and methods involved in teaching the skills of read-
ing and writing on the K-12 levels, including analysis of textbooks, discussion of
special foreign language problems, study of alternative methodologies and tech-
niques of testing. Field experience required. Does not count toward a language
major.
468. Teaching English/SEC (3 hours)
Prerequisite: Full Admission Status.
A study of methods, media, and materials for teaching English at the secondary school level, including theory, research, curriculum, units of study, and evaluation. Does not count toward the English major.

469. Secondary School Curriculum (3 hours)
Prerequisites: EDUC 225, 256, 325, 357 and Full Admission Status.
The purpose of this course is to study methods, media and materials, curriculum structures, evaluation strategies, lesson and unit planning, and QCCs. Instructional practices appropriate for secondary learners, issues, trends, and relevant research are also studied.

470. Foreign Language Methodology II: Speaking and Listening (3 hours)
Prerequisite: Consent of Secondary/Special Subjects Program Coordinator.
Evaluation of objectives and methods involved in teaching the skills of speaking and listening on the P-12 levels, including analysis of textbooks and software, discussion of special foreign language problems, study of alternative methodologies and techniques of testing. Does not count toward a language major.

474. Advanced Choral Methods (3 hours)
(Same as MUS 474)
This course will encompass the organization of choral music programs at all age levels. Administrative aspects, rehearsal techniques, contest procedures, trip planning, and recruitment/retention methods will be emphasized. Observation and analysis of successful choral programs will also be included.

475. Advanced Instrumental Methods (3 hours)
(Same as MUS 475)
This course deals with the organization of public school bands, orchestras, and instrumental programs; organization and administration of the successful marching band program; rehearsal techniques; instrumental classes; program building and maintenance; contests and trip planning. Observation and analysis of successful instrumental programs in the schools will also be included.

476. Teaching Literacy 7-12 (3 hours)
Prerequisites: EDUC 225, 256, 325, 357 and Full Admission Status.
Students will be introduced to theories, research, and practices related to teaching literacy in grades 7-12. The major focus will be on teaching literacy in content areas using all facets of communication skills, plus young adult literature to help develop proficient readers.

478. Teaching Literacy for MGE (3 hours)
Prerequisites: EDUC 225, 256, 325, 357, 360 and Full Admission Status.
This course will include an examination of the reading process and materials, strategies, and programs appropriate for teaching literacy for all middle grades learners. Content covered will focus on literacy factors for reading informational texts, the reading/writing connection and young adult literature.

480. Field Component IVA - The Holistic Child (4 hours)
Prerequisites: Full Admission into Teacher Education for Holistic Child Program. Completion of 300 level courses in The Holistic Child Program
This course provides a field based experience for students enrolled in the Holistic
Child program Teacher candidates spend a minimum of 100 clock hours over a ten (10) week period observing and participating in activities related to and associated with young children (P-5) in a regular ed classroom setting or in a special needs classroom setting. Students are required to attend field component seminars as scheduled. Note: Grades of Satisfactory (S) or Unsatisfactory (U). Special Fee.

485. Professional Practicum (3 hours)
Prerequisites: Application required; Full Admission Status; successful completion of EDUC 398 and EDUC 399.
Corequisite: Required Curriculum Course.
This course provides a school-based teaching experience for education students. Students will be assigned to diverse public schools. Students are required to attend Practicum seminars. Students will refer to the Teacher Education Handbook for specific policies and requirements. Successful completion of the Practicum is required for entry into Student Teaching. Note: Grades of Satisfactory (S) or Unsatisfactory (U). Special Fee.

492. Student Teaching (15 hours)
Prerequisites: Application required; Full Admission Status and successful completion of all required education courses.
This course provides a full-day teaching experience for certificate candidates who submit an application to the Coordinator of Field Experiences by the published deadline. Candidates will be assigned to diverse public schools and will gradually assume responsibility for working with groups and individuals. Student Teachers will participate in classroom teaching and observation, planning and evaluation conferences, and other school-related experiences with guidance provided by the Cooperating Teacher(s) and College Supervisor. Each Student Teacher will teach full-time for a minimum of three to five weeks. Several seminars will be held in conjunction with these experiences and will address a variety of topics. Student Teachers will refer to the Teacher Education Handbook for specific policies and requirements. Note: Grades of Satisfactory (S) or Unsatisfactory (U). Special Fee.

496. Field Component IVB - The Holistic Child (12 hours)
Prerequisites: Full Admission into Teacher Education for The Holistic Child Program, Completion of all required coursework for The Holistic Child Program, except Co-Requisite.
Co-Requisite: EDUC 405 Classroom Management.
This course provides a field based experience for students enrolled in the Holistic Child program. The course provides a full day, 12 week teaching experience for certificate candidates. Teacher candidates are assigned to diverse public schools and gradually assume responsibility for working with groups and with individuals. Each teacher candidate teaches full-time for a minimum of three to five weeks. Seminars are held in conjunction with this experience and address a variety of topics. Note: Grades of Satisfactory (S) or Unsatisfactory (U). Special Fee.

MATHEMATICS (MATH)

110. Mathematical Problem Solving (3 hours)
This mathematics course includes basic topics of pre-algebra. The focus will be on developing problem-solving skills through concrete experiences, communica-
tion, and a constructivist approach. An integrated lecture/laboratory course. Does not meet General Education Requirements.

201. Mathematics: The Language of Engineering (3 hours)
Co-requisite: SCIE 201.
An integrated study of precalculus, science with emphasis on space science, and related principles of engineering. Combining lecture and lab, this course engages students in student-active learning that promotes inductive and deductive critical reasoning. Students learn and apply precalculus concepts and skills as they engage in scientific investigations to discriminate between truth and plausible fiction.

SCIENCE (SCIE)

201. Science: The Language of Engineering (3 hours)
Co-requisite: MATH 201.
An integrated study of precalculus, science with emphasis on space science, and related principles of engineering. Combining lecture and lab, this course engages students in student-active learning that promotes inductive and deductive critical reasoning. Students learn and apply precalculus concepts and skills as they engage in scientific investigations to discriminate between truth and plausible fiction.
Graduate Studies

Mercer University is committed to providing graduate degree programs as well as undergraduate and professional education. Graduate work is offered leading to the following degrees:

**Stetson School of Business and Economics**
- Master of Business Administration
- Executive Master of Business Administration (in Atlanta only)

**School of Engineering**
- Master of Science
- Master of Science in Engineering

**Tift College of Education**
- Master of Education
- Specialist in Education

**College of Continuing and Professional Studies**
- Master of Science in Community Counseling

**Georgia Baptist College of Nursing**
- Master of Science in Nursing

**School of Medicine (in Macon only)**
- Master in Family Services
- Master in Family Therapy
- Master of Public Health

Admission to Graduate Study

All persons who wish to enter one of the graduate programs at Mercer University must submit a formal application to the school which sponsors the desired degree program. Certain basic qualifications must be met for admission to the graduate programs. All programs require that students hold a bachelor’s degree from an accredited college or university with a specified minimum undergraduate grade point average. Graduate admissions tests appropriate to the particular academic program are usually required. Specific requirements for each graduate program are given with the description of that program.

**International students** must provide a complete record of all previous schooling. This must include secondary schooling showing the dates attended, grades achieved or examinations passed, and rank in class, if available. Official transcripts must be accompanied by a certified English translation. Three reference letters, preferably from instructors in the undergraduate school(s) attended, are required along with a personal vita which should include all work experience, research study and experience, and professional development objectives. A statement of financial support must be obtained and submitted.

Proficiency in English must be established in one of the following ways:

1. Qualified students who present a score of 550 or above on the TOEFL will be admitted to the University. For students who desire additional language study after being admitted to the University, English Language Institute (ELI) short courses are available in specific skill areas.

2. Qualified students who present a TOEFL score below 550 or have no TOEFL score may be admitted conditionally contingent upon their suc-
cessful completion of Mercer University English Language Institute (MUELI). With the permission of the academic advisor, ELI students may register for up to 6 credit hours while completing the upper levels of MUELI.

Residency Requirements

To receive a graduate degree from Mercer, students must complete in residence at Mercer a minimum of 75 percent of the credit hours required for conferral of the degree.

Transfer and Transient Credit

Students may receive limited credit for graduate courses taken at another institution, either as transfer or transient credit. The number of hours accepted as transfer and transient credit varies by program but in no instance may exceed 25 percent of the credit hours required for the graduate degree. Credit for transfer or transient courses may be awarded under the following conditions: (1) the courses were taken at a graduate degree granting institution accredited by a regional accrediting body; (2) the courses were graduate level courses, applicable to a graduate degree; (3) the courses were taken in residence and not by correspondence; (4) grades of at least “B” were received in the courses; (5) the courses may not have been completed more than five years prior to enrolling in graduate studies at Mercer; (6) the courses have not been applied for credit to a degree previously earned.

Graduate Course Load

Graduate students in the Tift College of Education, the School of Engineering, the Stetson School of Business and Economics, the Georgia Baptist College of Nursing, and the College of Continuing and Professional Studies will be considered “full-time” for purposes of eligibility for financial aid, veterans’ benefits, etc., if they are enrolled for 9 credit hours in the semester.

In the School of Medicine, students in the Master in Family Therapy and Master in Family Services programs are considered full-time if they are enrolled for 6 credit hours per semester in Year 1 of the program.

Graduate Level Courses

**College of Liberal Arts**

600-699: Graduate level offerings of courses numbered 300-399.
700-799: Graduate level offerings of courses numbered 400-499.
Courses are generally 3 credit hours each.

**Stetson School of Business and Economics**

500-599: First level graduate courses
600-699: Graduate courses designed for graduate students only.
Courses are generally 3 credit hours each.

**School of Engineering**

500-599: First level graduate courses; may also be taken by qualified undergraduates.
600-699: Advanced-level graduate offerings; not normally open to undergraduates.
Courses are generally 3 credit hours each.
Tift College of Education
500-599: Post-baccalaureate initial certification only; non-degree credit.
600-699: Master of Education level classes.
700-799: Education Specialist level classes.
   Courses are generally 3 credit hours each.

College of Continuing and Professional Studies
600-699: Master of Community Counseling level classes

Georgia Baptist College of Nursing
600-699: Master of Science level classes.

School of Medicine
600-699: Graduate courses designed for graduate students only.
   Courses are generally 3 semester credit hours each.

Academic Standards
To maintain good standing in progress toward the degree, a graduate student must achieve a cumulative grade point average of at least 3.0 (“B”) on all courses taken for degree purposes. No credit is awarded for any course in which a grade below “C” is earned. No more than two grades of “C” and “C+” in any combination may be applied toward a graduate degree.

Application for Degree
Students who expect to qualify for degrees must make application in the Office of Enrollment Services by the dates specified in the University Calendar.

Thesis and Dissertation Requirements
Some master’s degree programs require or provide an option that degree candidates write a thesis as part of the degree program. A dissertation is required of all candidates for the Doctor of Philosophy degree. Students who are writing a thesis or dissertation should obtain from their graduate director a copy of the Regulations for Preparing and Submitting a Thesis or Dissertation. These regulations should be followed carefully in preparing the manuscript. After approval by the appropriate committee within the school, it is to be submitted to the Director of Graduate Programs in the Office of the Provost, accompanied by a receipt indicating payment of all applicable graduation and thesis/dissertation fees.

Behavioral Integrity
The University is a community of scholars in which the ideals of freedom of inquiry, freedom of thought, freedom of expression and freedom of the individual are sustained. However, the exercise and preservation of these freedoms require a respect for the rights of all in the community. Disruption of the educational process, academic dishonesty, destruction of property, and interference with the orderly process of the university or with the right of members of the university will not be tolerated. Violations of these rights will be addressed through procedures established by the Dean of each graduate program or, in the case of academic dishonesty, by the procedures of the Graduate Honor System.

Graduate Honor System
Academic integrity is maintained through the honor system. The Graduate Honor System was established by the University Graduate Council. It draws upon
the traditions of integrity and academic freedom - a freedom within the academic community which is based on a trust between students and faculty. The Honor System imposes upon each student the responsibility for his or her own honest behavior and assumes that each student will report any violations of the Honor Code.

The Graduate Honor System is governed by policies established by the University Graduate Council. An Honor committee composed of five members of the Graduate Faculty is responsible for decisions of alleged violations. The committee’s decisions are binding on the student involved but may be appealed to the Provost.
Graduate Programs

The Eugene W. Stetson School of Business and Economics (SSBE) offers the following graduate degrees: Master of Business Administration (MBA) and Executive MBA Program (EMBA).

The Master of Business Administration degree is offered on the Macon Campus. A Master of Business Administration and EMBA degrees are offered on the Cecil B. Day Campus in Atlanta. Also in Atlanta, joint degree tracks are offered in the Doctor of Pharmacy and the MBA, and in the Master of Divinity and the MBA. For information on the MBA Program in Macon, please write or call Stetson School of Business and Economics, Mercer University, 1400 Coleman Avenue, Macon, Georgia 31207-0001 (478) 301-2835. For the graduate programs on the Atlanta campus, please write or call the Stetson School of Business and Economics, Mercer University, Cecil B. Day Campus, 3001 Mercer University Drive, Atlanta, Georgia 30341 (678) 547-6417.

These graduate programs are pragmatic in focus with extensive use of applied experience in instruction. This approach encompasses a mixture of lecture, case analysis and seminar. Each method is used to accomplish the goals of a specific class and to assure that students acquire the ability to apply business theory in a dynamic, competitive environment. Emphasis is given across the curriculum to ethical and socially responsible patterns of business activity and to the integration of specific functional areas into a coherent scheme for decision making and behavior.

Graduate Program Policies and Procedures

1. **Eligibility for Admission:**
   Applicants seeking graduate admission must have a bachelor’s degree with an acceptable level of scholarship from a regionally accredited institution of higher learning. The degree may be in any discipline. Graduates of foreign schools of higher learning must be able to document that their degree is the equivalent of a bachelor’s degree awarded by an accredited United States college or university. Foreign educational credentials must be evaluated by an independent evaluation service at the applicant’s expense.

2. **Application:**
   To be considered for admission an applicant must submit a completed application form accompanied by a $50 non-refundable fee, ($100 for international applicants.) Applications may be obtained from the Stetson School of Business and Economics.

3. **Transcripts:**
   All applicants must submit two official transcripts from each collegiate institution previously attended to the Stetson School of Business and Economics, MBA Office, 1400 Coleman Avenue, Macon, Georgia 31207-0001 or the Office of Admissions, Stetson School of Business and Economics, Cecil B. Day Campus, 3001 Mercer University Drive, Atlanta,
Georgia 30341, depending on the campus the applicant wishes to attend. International students must present a course-by-course transcript evaluation. A list of acceptable evaluators is available from the MBA Office.

4. **Admission Standards:**
   All applicants must take the Graduate Management Admission Test (GMAT). The GMAT is administered by the Educational Testing Service, Princeton, New Jersey. A GMAT information *Bulletin* can be obtained by contacting the Stetson School of Business and Economics, or at www.gmat.org. Score reports should be forwarded to Mercer/Macon, Institutional Code #5409. Only GMAT scores within the five years prior to admission will be accepted.

5. **International Applicants:**
   Qualified applicants whose native language is not English will be eligible for admission into the program. Major emphasis is placed on proficiency in the use of English. The proficiency level desired is a minimum score of 550 (213 on the computerized version) on the TOEFL examination. The GMAT must be taken prior to consideration for admission.

   Accepted international applicants whose primary language is not English will be tested by the English Language Institute of Mercer University. Those whose test results indicate a lack of proficiency in English will be required to enroll in and satisfactorily complete English courses deemed appropriate by the International Student Advisor and the Stetson School of Business and Economics. Any English courses needed as a result of this testing become a formal part of the international student’s degree requirements and must be given first priority in registering for courses.

   Each applicant must present “official” credentials attesting to academic achievement as to level and performance. “Official” documents will vary from country to country, but should be original documents with authoritative signatures, seals, stamps, etc. Whenever possible, these should be sent by the institution responsible for issuing such documents. In cases where it is impossible for an applicant to have these credentials sent from such institutions, the applicant should forward a duly “notarized” or “attested to” copy. The notarization should be done by a proper government official or proper representative of the American Embassy in the country.

   International applicants who completed all or part of their education abroad are required to have their foreign credentials evaluated by an independent evaluation service. Information and forms are available on request from the MBA Office.

   When the documents are in a language other than English, they must be accompanied by translations. These translations must be the original form and contain acceptable notarization as described above for a copy of the original documents. Translations should be made by the American Embassy, the home country Embassy, or an appropriate government official. As a general rule, documents translated by the Office of the American Friends of the Middle East (AFME) and the Institute of International Education (IIE) will be acceptable. Because additional processing time is required, international students should submit the application and all supporting documents at least 60 days prior to the start of the desired semester of entrance.
Each international applicant must present financial documentation showing ability to finance the student’s education and living expenses for one year. Financial documents must be dated no more than one year to date of enrollment. Neither graduate assistantships nor financial aid is available to international students.

6. **Transient Status:**
Students enrolled at another institution who wish to obtain graduate credit for a course taken at Mercer University must provide written authorization from the other institution. The authorization must be accompanied by a completed application for admission and the appropriate application fee. Transcripts and admission test scores are waived with letter of good standing.

7. **Transfer Credit:**
Students may receive credit for graduate courses taken at another institution, either as transfer or transient credit. The number of hours accepted as transfer and transient credit may not exceed six (6) semester hours. Credit for graduate transfer or transient courses completed at another institution may be awarded under the following conditions: (1) the courses were taken at a graduate degree granting institution accredited by a regional accrediting body; (2) the courses were graduate degree courses; (3) the courses were taken in residence and not by correspondence; (4) grades of at least “B” were received in the courses; (5) the courses were completed within the five years prior to enrolling in graduate studies at Mercer; (6) other restrictions as set by the graduate faculty. Courses taken for another degree previously earned may not be applied toward the MBA, EMBA, or HCM.

A written request for consideration of transfer credit should be submitted to the Program Director by the student within six months of initial enrollment. The request must indicate the specific course(s) for which transfer credit is sought and must include a copy of the other institution’s Bulletin, a course outline and an official transcript. Exceptions to this policy may be appealed to the Dean of the Stetson School of Business and Economics.

8. **Transient Credit:**
Students who wish to earn transient credit from another college while enrolled in the MBA program must have prior approval from the appropriate Program Director for such credit to be accepted as a part of the degree program. Transient credit may not be used to meet the residency requirement necessary for graduation, except under unusual circumstances which must be approved by the Program Director.

9. **Readmission:**
A student who withdraws from the school while on academic warning or probation, or who has not completed a course in one calendar year and who wishes to reenter, must request readmission in writing to the Program Director. Requirements for continued enrollment and limits to the number of courses a student may take may be established. Furthermore, if it has been one calendar year or more since a course has been completed, the student must reenter under the Bulletin governing the academic year in which he/she reenters. Appeals of decisions regarding readmission must be made in writing to the Dean of the Stetson School of Business and Economics. Any student who is on academic exclusion may not be readmitted.
10. **Academic Regulations:**
Graduate students should become familiar with Bulletin information, the university calendar, and the specific regulations of their degree program.

11. **Exceptions and Appeals:**
Exceptions to policy or appeals of policy decisions and/or grades must be made in writing to the Dean’s office of the Stetson School of Business and Economics. These will be reviewed by the Student Life Committee, which will make a recommendation to the appropriate Dean. Appeals for reconsideration of a recommendation or decision by the Student Life Committee must be presented in writing to the Dean.

12. **Degree Requirements:**
To qualify for the MBA degree, the student must successfully complete at least 36 semester hours of course work numbered 600 and above as specified under the Program of Study section. On all courses taken in residence and considered for graduation, the student must have a cumulative GPA of at least 3.0. To graduate, students must obtain a minimum grade point average of 3.0 on all graduate business courses taken at Mercer University. In addition to meeting the 3.0 requirement for graduation, students must have no more than two (2) grades of C and/or C+ in the entire graduate work. Grades below a C do not count toward Master’s degrees. No more than two (2) courses with a grade of less than B may be repeated for credit in the graduate programs. Students earning five letter grades of C or C+ in required core and foundation courses will be permanently excluded from the MBA program. Macon MBA students must also complete the graduate assessment examination.

The time limit for completion of all course work for graduate degrees is seven (7) years.

13. **Residency Requirements:**
To qualify for the MBA degree, the student must complete at least 30 semester hours of course work in residence, and achieve a GPA of at least 3.0.

14. **Participation in Commencement Ceremonies:**
Students who have met all degree requirements may participate in the Commencement ceremony. Other graduate students may participate under these stipulations: (1) if they are within six (6) hours or less of completing all degree requirements, including the minimum number of semester hours required, and (2) if they meet the minimum graduation requirements for grade point averages in cumulative GPA.

15. **MBA Classes for Students Enrolled in Graduate and Professional Programs Outside of the Stetson School of Business and Economics:**
Students enrolled in other graduate and professional programs of Mercer University may take up to three classes offered in the MBA program. A student must be in good standing in their program, have a four-year undergraduate degree, and must meet all prerequisites for the courses in which they wish to enroll. All registrations must be approved by the Director of Graduate Studies. An acceptable score on the GMAT may be required.
Graduate Academic Deficiency

Unsatisfactory Academic Progress: The cumulative grade point average of 3.0 is one of the requirements for graduation from the graduate program. The semester and cumulative grade point averages are an indication of a student's academic performance. Any student whose semester and/or cumulative grade point average is below 3.0 is making unsatisfactory academic progress and the student's progress will be monitored. The statuses described below designate a single period of one or more consecutive semesters in which a student is making unsatisfactory academic progress. This period begins the semester following the semester in which the semester or cumulative grade point average is below 3.0 and ends the semester in which the cumulative and semester grade point average are at least 3.0.

Academic Warning

The first semester that a student's semester and/or cumulative grade point average is below 3.0.

Academic Probation

The second and subsequent consecutive semesters in which a student is enrolled and the semester or cumulative grade point average is below 3.0. To improve the academic standing of a student who is making unsatisfactory academic progress, the Program Director may specify conditions with which a student must comply to be able to register, such as the courses to be taken, the course load, the attainment of a specific semester grade point average, and/or counseling.

Academic Suspension

After the second and subsequent semesters on Academic Probation, a student may be placed on Academic Suspension; that is, the student may not be permitted to register for classes for one or more semesters. A student who is suspended may request in writing that the Director of his or her program review the decision.

Academic Exclusion

In the most serious cases of unsatisfactory academic progress a student may be permanently excluded from the program. Students earning five letter grades of C or C+ in required core and foundation courses will be permanently excluded from the MBA program.

Readmission

The student who wishes to be considered for readmission following suspension must make application in writing to the Program Director. The application must be made at least 45 days prior to the close of registration for the semester in which the student wishes to enroll. The Director may consult with faculty before making a decision. If the student is allowed to reenter, the Director may establish conditions for the student's readmission, as well as course requirements. A negative decision by the Director may be appealed in writing to the Dean, or to the Dean's designated representative. The decision of the Dean, or the Dean's representative, is final.
Grades of C or Below

Graduate students, in addition to meeting the 3.0 requirement for graduation, also must have no more than 2 grades of C and/or C+ in the entire graduate work. Grades below a C do not count toward Master’s degrees. Students not meeting the minimum standards may be placed on academic probation. Students earning five letter grades of C or C+ in required core and foundation courses will be permanently excluded from the MBA program.

MASTER OF BUSINESS ADMINISTRATION

The Master of Business Administration (MBA) degree is a professional degree for individuals interested in the management of human, material, and financial resources in business, government, and non-profit organizations. The program is tailored to meet the needs of individuals already employed as managers, as well as persons preparing for advancement into middle management or administrative levels. The MBA program has the following objectives:

- Examine the relationship between business and society in order to heighten each student’s awareness of social dilemmas and value conflicts which affect an organization’s performance;
- Develop a greater understanding of human behavior in organizations and develop the attitudes and skills necessary to achieve effective working relationships;
- Develop analytical techniques and multi-disciplinary approaches useful in making and implementing decisions;
- Develop a strategic vision necessary to cope with complex managerial problems in a global environment.

Program of Study

Foundation Areas

MAT 226: Elementary Statistical Methods (waived by an approved undergraduate course with a grade of “C” or better) Students are also required to take, and score at a satisfactory level, the Statistical Skills Test prior to registering for BAM 622, Applied Data Analysis. A tutorial is available in the MBA office.

ECN 150: Principles of Microeconomics (waived by an approved undergraduate course with a grade of “C” or better)

FIN 362: Principles of Finance (waived by an approved undergraduate course with a grade of “C” or better) Students needing FIN 362 as part of their program of study and not having a course in financial accounting are required to obtain permission of the instructor prior to registering.

18 undergraduate semester credit hours in business with a grade of “C” or better. (This requirement may be met by completing three semester graduate elective hours for every six semester undergraduate hours required.) Working knowledge of spreadsheet, word-processing, and presentation software.
Core Courses

BAM 602. Financial Reporting and Analysis*
BAM 604. Operations Management or BAM 624. Advanced Applied Data Analysis
BAM 606. Applied Microeconomic Analysis*
BAM 608. Global Macroeconomic Environment
BAM 610. Managers and the Legal and Governmental Environment of Business
BAM 612. Corporate Financial Management
BAM 614. Accounting for Control
BAM 616. Management and Leadership*
BAM 618. Advanced Seminar in Business Ethics
BAM 620. Seminar in Strategic Marketing
BAM 622. Applied Data Analysis
BAM 624. Advanced Applied Data Analysis
BAM 699. MBA Capstone

* May be replaced with a free elective with an undergraduate major in the area.

MASTER OF BUSINESS ADMINISTRATION CURRICULUM
BUSINESS ADMINISTRATION (BAM)

Core Courses

602. Financial Reporting and Analysis (3 hours)
This course is an in-depth look at financial reporting, regulation, ratio and trend analysis. Research skills using on-line data bases will be explored.

604. Operations Management (3 hours)
This course focuses on the strategic and tactical issues in managing the creation and distribution of goods and services. Concepts and techniques for process and project management are covered. Specific topics include, but are not limited to, operations strategy, quality management, time-based competition, supply chain management and project management.

606. Applied Microeconomic Analysis (3 hours)
Prerequisite: ECN 150 or an approved undergraduate equivalent.
A survey of economic tools and analysis available to the manager for business decision making. Includes such topics as: pricing, forecasting, demand analysis, and macroeconomic policy as it affects the business environment.

608. Global Macroeconomic Environment (3 hours)
This course is a study of aggregate economic activity in an open economy format. Unemployment, inflation and growth are analyzed within a global environment. Policy issues, both monetary and fiscal in nature, are discussed with consideration given to the impact of international linkages. Emphasis is placed upon analytical methods which enable managers to understand and predict the effect of overall economic fluctuations on their firms.

610. Managers and the Legal and Governmental Environment of Business (3 hours)
This course introduces students to the many legal and regulatory challenges that managers confront during the life of a business. It focuses on the relationship
between law, governments, and business, considers how effective use of legal strategies can both advance a business and avoid regulatory costs and how efficient use of counsel can be achieved.

**612. Corporate Financial Management** (3 hours)
Prerequisites: FIN 362 or an approved undergraduate equivalent and BAM 602. The course focuses on the conceptual and practical problems associated with the financial management of non-financial firms. Topics include valuation of the firm, capital budgeting risk, cost of capital, capital structure, dividend policy, and investment strategies.

**614. Accounting for Control** (3 hours)
Prerequisite: BAM 602.
A course designed for middle managers which reviews the effective use of accounting information in business decision-making. A case approach.

**616. Management and Leadership** (3 hours)
This course describes and analyzes the growth, development, and application of behavioral science to industrial society. Emphasis is placed upon an understanding of the social, psychological, and cultural aspects of the work situation.

**618. Advanced Seminar in Business Ethics** (3 hours)
Prerequisite: BAM 616 or permission of instructor.
This course offers a multidisciplinary approach to the issues of ethical business practice. It examines the concept of leadership as a specialized role and as a social influence process in organizations and in society at-large.

**620. Seminar in Strategic Marketing** (3 hours)
An analytical examination of the decision-maker's process in producing a marketing strategy consistent with the underlying factors present in various situations. Case analysis is emphasized to help develop strategic marketing skills.

**622. Applied Data Analysis** (3 hours)
Prerequisite: Successful completion of the Statistics Skills Test prior to registration.
A review of major theories, tools, and techniques useful in making decisions and solving problems. Special emphasis on the problems more commonly encountered by middle and lower levels of management.

**624. Advanced Applied Data Analysis** (3 hours)
Prerequisite: BAM 622.
This course provides students the opportunity to directly apply the content of BAM 622, Applied Data Analysis to a real world setting. The entire course is based on a self-defined problem. After identifying and organizing the available data and after discussing appropriate techniques, students will develop a detailed statistical analysis that aids in the understanding of a problem. Practical recommendations and potential solutions will be a critical component of the analysis.

**699. MBA Capstone** (3 hours)
Prerequisite: 24 semester graduate credits.
This course provides students with the opportunity to correlate, integrate, and apply the concepts.
MBA Electives (BAM)

625. Special Topics (3 hours)
Special Topics are courses designed to provide instruction in areas and subjects that are not offered in the program curriculum as shown in the Bulletin. Special Topics is a mechanism that facilitates the development of new courses, and encourages curriculum experimentation and curriculum development. Maximum degree credit for Special Topics courses for any student is 6 semester hours.

626. Independent Study (3 hours)
Independent Study is designed to allow an individual student to study in an area or subject that is not offered in the program curriculum as shown in the Bulletin. The student's proposal for Independent Study must be planned with and approved by an instructor, and must be approved by the Dean. Maximum degree credit of Independent Study for any student is 3 semester hours.

MBA Electives (BA)

Accounting/Taxation

630. Individual Income Tax (3 hours)
Prerequisite: BAA 603 or BAM 614.
An introduction to the basic skills and concepts needed for individual income taxation. A foundation of tax knowledge which can be expanded into special areas. (Atl)

635. Corporate, Partnership, and Estate Taxation (3 hours)
Prerequisites: BAA 603 and BA 630 or BAM 614 and BA 630.
This course examines the income taxation of corporations and partnerships including operating, formation, and distributions. Gift and estate taxation issues are also addressed.

637. Governmental and Not-For-Profit Accounting (3 hours)
Prerequisites: Consent of instructor.
A study of the principles of fund accounting for and financial reporting by not-for-profit and government entities. This course also addresses CAFR analysis and current topics in the content area.

655. Advanced Auditing (3 hours)
Prerequisite: ACC 431.
A continuation of introductory auditing with emphasis on development of audit procedures, the internal control structure, and assessed audit risk. Major audit failures are analyzed to assess causes and appropriate remedies. Ethical standards for the audit profession are also examined.

657. Advanced Accounting (3 hours)
Prerequisites: ACC 371, 372, and 373 or consent of the instructor.
A study of the theory and principles of accounting for business combinations, the preparation of consolidated financial statements, branch accounting, accounting for partnerships, accounting for international operations, and accounting for governmental and nonprofit organizations. A case approach.
Economics

678. International Economics (3 hours)
Prerequisite: BAA 601 or BAM 606.
An introduction to foreign trade theory and commercial policies. Topics may include the theory of international trade, commercial policies, balance of payments and domestic stability, offer curves and the terms of trade, and international trade strategy.

Finance

641. Financial Reporting (3 hours)
A critical analysis of reporting practices and complexities encountered by corporations within the framework of generally accepted accounting principles. Emphasis upon management’s responsibility to communicate financial information in a significant manner to individuals and groups. (Mac)

670. Seminar in Financial Management and Policy (3 hours)
Prerequisite: BAA 609 or BAM 612.
Advanced topics in Financial Management will be applied to real world case studies. The course will emphasize decision making and should be the last course taken in the finance sequence.

671. Corporate Restructuring via Mergers and Acquisitions (3 hours)
Prerequisite: BAA 609 or BAM 612.
This course will offer an intermediate-to-advanced treatment to the topic of corporate control, a topic that has become very popular in corporate America and which is gaining much importance. Some of the broad topics to be covered in this course include: theory of the firm and corporate activity; economic rationale for the existence of the firm and for the major types of mergers; theories of mergers and tender offers; empirical tests of some of the more important theories; sell-offs and divestitures; methods of payment and leverage; takeover defenses; and legal framework of mergers. (Mac)

672. Financial Institutions (3 hours)
Prerequisite: BAA 609 or BAM 612.
Analysis of money and credit system of the United States banking system and the impact of monetary and fiscal policies upon business decisions and economic activity.

673. Capital Budgeting (3 hours)
Prerequisite: BAA 609 or BAM 612.
An analytical course that introduces advanced mathematical and statistical concepts into the analysis of the financial decision making process.

674. Investment Analysis & Portfolio Management (3 hours)
Prerequisite: BAA 609 or BAM 612.
Rigorous and empirical study of the elements of investment; investment background and modern investment theory; analysis and valuation of equity securities and bonds; asset pricing and portfolio theory and evaluation of portfolio performance.
675. International Finance (3 hours)
Prerequisite: BAA 609 or BAM 612.
To familiarize the student and managers with a changing international scene. The use of foreign exchange, interest rate risk, arbitrage, spot and forward rates and the applicability of hedging will be introduced. The course will emphasize applications for MBA students majoring in finance and other students interested in the topic. (Atl)

694. Financial Derivatives: Options and Futures (3 hours)
Prerequisite: BAA 609 or BAM 612.
The course explores the latest derivative markets introduced to the U.S. and the rest of the world. These markets are the Futures, Options, Futures on Options and other financial engineering instruments. The objective is to use these instruments either as an individual investor or for hedging purposes by corporate managers. (Atl)

General Business

664. Electronic Commerce (3 hours)
Technology is a driving force in the trend of globalization. This course examines how organizations are relying on the Internet for marketing and management purposes. Emphasis will be on implementing electronic commerce as a business strategy, leveraging information technologies for business processes, and reviewing state of the art applications used in product, service, and information sectors. Legal and ethical issues of electronic commerce will also be addressed.

International Business

613. Studies Abroad (1-6 hours)
Travel to a foreign country in order to interview and consult with business managers, labor leaders, academicians and government officials. Lectures, discussions, facilities tours. Analysis of the role and impact of cultural, economic, social, political and legal influences on management philosophy and practice. Theories and practices of organizing, motivating, communicating and negotiation are examined in different national settings. Research report and oral presentations required. Direct costs such as airfare, meals and lodging are added to normal tuition charges. (Atl)

675. International Finance (3 hours)
Prerequisite: BAA 609 or BAM 612.
To familiarize the student and managers with a changing international scene. The use of foreign exchange, interest rate risk, arbitrage, spot and forward rates and the applicability of hedging will be introduced. The course will emphasize applications for MBA students majoring in finance and other students interested in the topic. (Atl)

681. International Marketing (3 hours)
Prerequisite: BAA 605 or BAM 620.
An analysis of the social, cultural, political and economic environment for international marketing, problems in the marketing organizational structure of the firm and control of the international marketing operations in the multinational firm; also a study of alternative marketing strategies for cross national marketing and how it could develop into viable international exchange markets. (Atl)
696. International Management  
(3 hours)
Prerequisite: BAA 692 or BAM 616.
Managers increasingly work either with an ethnically diverse domestic work force or at cross-national or cross-regional interfaces. To improve performance in these multicultural settings, this seminar examines ways in which cultures vary and how these variations affect work values, expectations and practices. The seminar then explores ways of effectively managing cultural diversity.

Internship

656. Business Administration Intern  
(3 hours)
Prerequisites: Completion of at least 15 hours in the MBA program, minimum 3.0 cumulative GPA, and permission of the Director of Graduate Programs.
The intern program is designed to provide the student on-site (as a minimum) 60 work hours of experience in business administration. The intern program must be substantially different from any business experience that the student has had. The intern program cannot be at a location where the student is employed, or where the student has been employed. The student will be assigned an academic internship advisor, who will be responsible for establishing the internship objectives, and coordinating these with the internship sponsor at the employer. Course objectives will vary based on the nature of the internship. It is expected that there will be reading requirements and written assignments to enhance the student’s learning from the experience. The student’s advisor will oversee, with the help of the sponsor, the intern’s study and review the student’s work and assign the grade.

Management

642. Practitioner’s Seminar  
(1.5 hours)
Prerequisite: Permission of Director
This course is designed around a topic of interest which is presented by a practitioner along with a full-time faculty member. Each seminar has a principal objective of linking theory and practice. (Each seminar carries 1.5 hours of credit. Graduate students may take up to 6 semester elective hours in Practitioner’s Seminar toward their program of study. These seminars may not substitute for core courses.)

676. Applied Decision Sciences  
(3 hours)
Prerequisite: BAA 611 or BAM 622.
Management simulation through the use of a computer game. Students are divided into teams for decision making purposes and compete with other teams. The course emphasizes quantitative models such as Multiple Regression and Linear Programming. Extensive use of computer software relevant to the models and techniques introduced; however, no computer programming knowledge is assumed. (Atl)

684. Entrepreneurship, Intrapreneurship and Innovation  
(3 hours)
Prerequisites: BA 692, BAA 605, and BAA 609 or permission of instructor or BAM 6616, BAM 620, and BAM 612 or permission of instructor.
This course covers both the basics of what entrepreneurship and intrapreneurship are today, including a focus on e-commerce. The nature of the entrepreneur, firm successes and failures, the overall world climate for entrepreneurship, and marketing, financial analysis and overall business planning are covered. The student will develop a business plan as part of the class experience. (Atl)
685. Human Resource Management  (3 hours)
Prerequisite: BA 692 or BAM 616.
This course examines the fundamentals of human resource management. It emphasizes the individual-organization interface and the administration of the personnel function to achieve organization objectives.

696. International Management  (3 hours)
Prerequisite: BAA 692 or BAM 616.
Managers increasingly work either with an ethnically diverse domestic work force or at cross-national or cross-regional interfaces. To improve performance in these multicultural settings, this seminar examines ways in which cultures vary and how these variations affect work values, expectations and practices. The seminar then explores ways of effectively managing cultural diversity.

Management Information Systems

654. Foundations in Management Information Systems  (3 hours)
Prerequisite: BAA 611 or BAM 604.
Information systems and technologies (IS/T) are an integral part of most organizations. Managers need at least a basic understanding of IS/T in order to express requirements, make necessary choices, oversee implementations and assess results. Combining academic theory and business experience, this course is designed to provide an understanding of the concepts and fundamentals of IS/T, the challenges of designing and implementing them and their potential impact on the organization. Emphasis will be on aligning information strategies with business strategies and leveraging information technologies for business processes.

660. Information Resource Management  (3 hours)
Prerequisite: BAA 611 or BAM 604.
Information Resource Management (IRM) is designed to provide an overview of a number of the people and technical issues related to Information Systems (IS) planning, development, organization, evaluation and control. The impacts of IS on users at various levels of the organization are examined. Applications of emerging technologies will be reviewed. The goal is to integrate the issues and concepts discussed so that common themes and relationships become apparent. At all times the focus should be on practical applications of the material being discussed. (Atl)

Marketing

662. Direct and Electronic Marketing  (3 hours)
Focuses on the strategy and decision-making aspects of direct marketing and electronic marketing. Emphasis is placed on various choices available for creation and execution of modern, efficient direct promotional campaign. Relevant to both business-to-consumer and business-to-business settings.

681. International Marketing  (3 hours)
Prerequisite: BAA 605 or BAM 620.
An analysis of the social, cultural, political and economic environment for international marketing, problems in the marketing organizational structure of the firm and control of the international marketing operations in the multinational firm; also a study of alternative marketing strategies for cross national marketing and how it could develop into viable international exchange markets. (Atl)
682. Buyer Behavior (3 hours)
Prerequisite: BAA 605 or BAM 620.
This course focuses on the study of the behavior of buyers of consumer and industrial goods and services. Special emphasis is placed on increasing the student's sensitivity to, and understanding of, buyers and their behavior and providing the student with experience in applying this knowledge to effective marketing management decisions. (Atl)

686. Marketing Promotion (3 hours)
Prerequisite: BAA 605 or BAM 620.
This course focuses on decision making in the management of the elements of the firm’s promotional mix such as advertising, sales promotion, publicity, and packaging and branding. Special emphasis is placed on the use of promotional tools as they are used in promotional strategy formulation. (Atl)
The School of Engineering

M. Dayne Aldridge, Sc.D., P.E., Dean/Professor

Graduate Faculty:
Susan Codone, Assistant Professor

Master of Science in Engineering

Master of Science

The faculty of the Mercer University School of Engineering grants advanced degrees in engineering, technical management, and in software systems through a part-time, evening program.

Students whose interests and aptitudes lead them beyond the goals of the traditional undergraduate curriculum may broaden their knowledge of a given field or pursue independent inquiry through graduate study.

The School of Engineering has also designed the master of science in engineering program to enable the Mercer University undergraduate student to gain simultaneously a bachelor of science in engineering and a masters of science in engineering degree in five years. This is an integrated program in which the student pursues a bachelor of science in engineering. During the junior year students may apply to complete both the bachelor of science in engineering degree and the master of science in engineering program during the fourth and fifth year of study. It is designed to prepare the Mercer engineering graduate to play an engineering leadership role and to achieve a high degree of success in his or her field.

The Master of Science in Engineering degree is offered in the following disciplines:

- Biomedical Engineering
- Computer Engineering
- Electrical Engineering
- Engineering Management
- Mechanical Engineering
- Software Engineering

The Master of Science degree is offered in the following disciplines:

- Software Systems
- Technical Communication Management
- Technical Management

Policies and Regulations

The Graduate Committee of the School of Engineering is responsible for establishing academic policy for the graduate program with the approval of the University Graduate Council. This committee reserves the right to change the requirements for degrees as may be appropriate. Students enrolled at the time such changes appear in the Bulletin have the option of completing the require-
ments in effect during the term in which they enrolled, provided they complete the
course of study within three years following the change, or of completing their
degrees according to the new requirements. This Bulletin records the school-wide
policies and regulations that govern the graduate program. Departments within
the school may establish additional requirements for their programs, but these
may not contradict the policies and regulations of the Graduate Committee of the
School of Engineering.

Admission

Certain basic requirements must be met for admission to all of the graduate
programs offered by the Mercer University School of Engineering. These require-
ments are intended to ensure that profitable graduate study will result from admis-
sion. Students may be admitted to the graduate program with “Full,” “Conditional,”
“nondegree” or “Transient” graduate standing.

Admission of undergraduate students to the integrated Master of Science in
Engineering program is only open to Mercer students. The school limits enroll-
ment to students whose grade point average at the end of their junior year is
equal or greater than 3.0 and who have the appropriate undergraduate back-
ground for the graduate program they select.

Graduate Record Examination

All applicants to the School of Engineering graduate programs must submit
scores from the Graduate Record Examination (GRE) general test as a part of
their admissions packet. The test is offered several times a year in paper-and-pen-
cil format, and many times a year at one of the GRE’s computer-based testing
sites (see www.gre.org for up to date information). Departments may use test
results as one of several admissions criteria. Students applying to the integrated
bachelor of science in engineering and master of science in engineering degrees
are exempt from the GRE requirement.

English Proficiency

All international students whose native language is not English must submit
results of the Test of English as a Foreign Language (TOEFL), or a Certificate of
Proficiency from an ELS Language Center. The minimum acceptable TOEFL
score is 550. English proficiency at ELS Level 109 is expected.

Admission Categories

Full Admission

The requirements for admission with “Full” graduate standing are as follows:

1. Submit a completed graduation application along with application fee.
2. Hold a bachelor’s degree in an appropriate field from an accredited institu-
tion; for MSE applicants, the program must be accredited by the Engineering
Accreditation Commission of ABET.
3. Have an earned undergraduate GPA of 3.0 overall.
4. Submit GRE score on the general section of the test.
5. Meet all additional specific departmental requirements, if any.
Conditional Admission

Applicants who fail to satisfy all the conditions for full admission, may be accorded “Conditional” standing upon recommendation of the concerned department chairman. Upon admission, appropriate conditions will be defined, and must be met, to achieve “Full” standing. Once the defined conditions are satisfied, the student must petition the Graduate Committee for advancement to “Full” standing. Students must attain “Full” graduate standing to be graduated with the MSE or MS degree.

Provisional Admission

Applicants to the graduate program may be admitted provisionally until all application materials are received in the Graduate Programs Division. Once materials are received, the student’s file is reviewed for appropriate acceptance status.

Non-degree Status

Students who do not wish to pursue an advanced degree in the School of Engineering, but whose undergraduate record indicates that they are otherwise qualified for admission, may take graduate courses as a non-degree student. Such courses will not normally apply toward a Mercer degree.

Transient Admission

Students in good standing at other universities may enroll in the School of Engineering as “Transient” graduate students. Such students must file an application for admission and provide verification of good standing status from their own graduate dean. Work undertaken in this status will not normally apply toward a Mercer degree.

Readmission

Students who interrupt the continuity of their graduate programs by failing to register for two consecutive terms (summer term excepted) must seek readmission by filling a Request for Readmission by August 1 for Fall Semester, December 1 for the Spring Semester, and May 1 for Summer term. Students admitted to the School of Engineering graduate program who do not enter in the term for which they applied, and subsequently wish to be considered for a later term, must reactivate their application for the new semester by notifying the Graduate Programs Division in the School of Engineering at least two weeks before the beginning of that term.

Tuition and Fees - Graduate Programs*

Contact the Graduate Programs Office of the School of Engineering for current tuition and fees. *Miscellaneous fees and policies governing payment of fees and refunds may be found under the Financial Information section of this Bulletin.

Matriculation Requirements

While students may enroll in the graduate program upon admission with either full or conditional standing, they must attain full graduate status, and be in good standing academically to graduate with the MSE or MS degree.
Continuous Enrollment

Students enrolled in graduate degree programs should make consistent progress toward their degree in order to complete the program according to the requirements under which they enrolled. Unless the student maintains continuous matriculation, the school may require that the student meet the degree requirements in force at the time of his or her last readmission. When engaged in a thesis, the student must officially register for at least one course every term (not including summer term), except that one term may be missed with prior approval of the Graduate Committee. All work submitted for degree credit must be completed within seven consecutive calendar years.

Academic Loads

Most graduate students in the School of Engineering are part-time students. To qualify for full-time status, a graduate student must schedule at least nine hours each term (summer term excepted). For financial aid purposes, graduate loads are: full time, 9 or more credits; three-quarter time, 6-8 credits; half time, 4-5 credits; quarter time 1-3 credits.

Academic Requirements

Graduate students are expected to maintain at least a 3.0 cumulative grade point average (GPA). Students in the integrated bachelor of science in engineering and master of science in engineering programs must maintain at least a 3.0 cumulative grade point average on all coursework which applies toward the master of science in engineering degree. Any student earning a grade lower than a “B” will receive a warning. A student earning a second grade lower than a “B” will be placed on academic probation. The student will be informed of requirements for retaining good academic standing. Failure to meet the requirements will result in the student being dismissed from the program. An s/u grade does not affect the GPA. No credit is awarded for any course in which a grade below “C” is earned. No more than two grades of “C” or “C+” in any combination may be applied toward a graduate degree.

Transfer and Transient Credit

Under certain circumstances, students may receive transfer credit for graduate-level courses taken elsewhere. The student must have his or her previous institution supply an official transcript to the Graduate Programs Division for this evaluation. Upon recommendation of the student’s graduate advisor, and approval of the program director, transfer credit may be awarded for courses of acceptable quality which form a logical part of the student’s graduate program. Such credit will be limited to six semester hours, and may substitute for no more than two courses. Students enrolled in the Mercer School of Engineering graduate program who wish to attend graduate classes at another institution, and to transfer credit back to their graduate program here, should receive permission to take transient courses prior to enrolling at another institution. Otherwise, courses taken elsewhere may not count toward their Mercer degrees. Authority to take transient course work is granted through the dean’s office. The maximum number of transfer/transient credit may not exceed the University guidelines as specified in the “Graduate Studies” section of this Bulletin.
Graduation Requirements

Students must complete a minimum of 30 semester hours of coursework and a minimum of 18 hours in discipline 12 of which must be at the 600 level. Students must also complete a minimum of 18 hours at the 600 level. An optional thesis or minor is also available. Specific course work requirements for graduation with the Master of Science and Master of Science in Engineering degree are established by the departments offering the program. The following general requirements are common to all programs.

Optional Thesis

Students electing to complete a thesis must complete a minimum of 24 hours of coursework and a minimum of 6 hours of research including a formal master's thesis. The purpose of the thesis is to further the educational development of the student by requiring him or her to plan, conduct, and report an organized and systematic study which makes a contribution to the student's field. The thesis must be directed by a fellow of the graduate faculty. A maximum of 6 hours of research may be counted toward the degree. Only grades of satisfactory or unsatisfactory will be assigned. Each student will work with a faculty advisor to develop a plan for the research that will satisfy the departmental requirements for the degree. A narrative description of the plan, approved by the faculty advisor, must be submitted to the program director during the academic term preceding the initiation of work on the research.

Students may do research “in absentia” provided:

1. They have gained the written approval of their research committee and their department chair.
2. They conform to the continuous enrollment guidelines. Payment of fees is the responsibility of the student regardless of sponsorship by his or her employer.

Thesis Advisory Committee

A thesis advisory committee is appointed by the program director to each graduate student electing the thesis option. The committee has oversight responsibility for the student's research. The committee shall meet all the following requirements:

1. The committee shall consist of at least three members, one of whom must be from outside the home department.
2. A majority of the committee shall be full-time faculty of the School of Engineering and full members of the Graduate Faculty.
3. The committee chairperson appointment shall be a fellow of the graduate faculty.
4. Individuals with relevant expertise who are not full-time members of the faculty may serve as members of the committee.

Application for Graduation and Degree

Students who expect to qualify for degrees must file a graduation application with the Office of the Registrar by the dates specified in the University Calendar. The program director normally recommends to the Registrar the awarding of the Master's degree to any candidate who:
1. has satisfied the requirements of the School of Engineering, and of the major department, with respect to course work and academic performance;
2. has an overall grade point average of at least 3.0;
3. has successfully completed the oral defense of any thesis;
4. has received the final approval of any thesis from the appropriate review bodies;
5. has submitted three unbound copies of any thesis with an abstract of not more than 300 words, certified for accuracy and proper format by the faculty advisor;
6. will have completed all work submitted to satisfy the degree requirements within a period of not more than seven consecutive calendar years;
7. is, at the time, a registered student in good standing.

Degree Programs

Biomedical Engineering (M.S.E.)

The two major areas that are emphasized in Mercer's graduate biomedical engineering program are biomedical instrumentation/imaging and biomechanics/biomaterials. The program is open to all qualified engineers, regardless of undergraduate engineering major. Admissions to this program may be temporarily suspended during periods of low student demand. Students who do not have an adequate background in medicine or biology may be required to take additional courses. The Master's degree program in biomedical engineering requires a minimum of 30 credit hours with a minimum of 18 hours in major.

BME Courses

610. BME Practice/Emerging Topics (3 hours)
Instruction in the practice of Biomedical Engineering including Good Manufacturing Practices, FDA regulations, and medical device/instrumentation markets. Investigation of emerging biomedical engineering topics of interest such as tissue engineering, surface modification, and implantable controllers.

620. BME Project/Practicum/Research (3 hours)
Faculty supervised student initiated/directed study that may included more in-depth analysis of engineering design project, industry practicum, or research project.

630. Advanced Biomaterials/Mechanics (3 hours)
Investigation of advanced bio-mechanics/material topics in areas such composite materials, viscoelastic models, non-Newtonian fluids, heat/mass transfer.

640. Advanced Bioinstrumentation (3 hours)
Coverage of advanced and emerging topics of bioinstrumentation such as telemetry, imaging, signal processing, and diagnostic/therapeutic instrumentation.

SPECIAL COURSES: BME 691, 692, 693, 698, 699 for variable credit. May be repeated for credit with permission of advisor.
691-692-693. Special Topics (1-6 hours)

Possible topics include:
- Health Care Delivery Systems
- Clinical Information Systems
- Biomedical Applications of Digital Signal Processing
- Advanced Cardiac Mechanics
- Neurophysiology and the Cardiovascular System
- Pharmacokinetics and Drug Delivery Systems
- Radio technology and Radiological Safety
- Clinical Laboratory Procedures
- Clinical Laboratory Automation
- Kidney Function and Kidney Dialysis

698. Professional Seminar (1-6 hours)

699. Thesis Research (1-6 hours)

A maximum of 6 hours of research may be counted toward the degree if the thesis option is chosen. Only grades of satisfactory or unsatisfactory will be assigned.

Computer Engineering (M.S.E.)

Computer Engineering centers around embedded systems. That is in the design of digital and computer systems which are part of a larger whole. Realtime constraints are also present in many embedded systems. At this time there are many more embedded computers than desktop computers. They are in the data transmission systems of wireless and wired digital networks, in the fuel injection system for cars, in the flight control system for airplanes, in the motion control and sensor system for robots, in the control and protection systems of nuclear power plants, and now appear prominently as components in low-cost toys and kitchen appliances. The future undoubtedly holds many more complex embedded systems.

The design of embedded systems requires a range of knowledge and skill. Specifically, software engineering, hardware design, electronic interfacing, computer networks for distributed systems, and computer architecture are all important knowledge areas in computer engineering. In the context of a graduate program which has a software engineering program and an electrical engineering program, computer engineering at Mercer offers the full range of topics listed above, and fills in with courses which integrate the areas.

The master's degree in computer engineering will provide students with the opportunity to pursue advanced study in these areas.

The master of science in engineering curriculum requires that at least 18 of the 30 credits be at the 6XX level. In addition, the master of science in engineering in computer engineering curriculum requires that the 30 credit hours meet the following constraints:

- ECE XXX Approved ECE graduate coursework 9 hours
- SSE XXX Approved SSE graduate coursework 9 hours
- Other approved graduate coursework or thesis 12 hours
Electrical Engineering (M.S.E.)

Electrical engineering is characterized by the breadth and diversity of subject areas that comprise the discipline. It demands, by its nature, intensive application of mathematics and computational tools. The program is designed to prepare the student to apply these tools to engineering problems. Major areas of study include: electronic circuits, communication systems, digital and computer systems, electromagnetics, digital signal processing, and others. Each of these areas has its own sub-areas. For instance communication systems include traditional analog communications, modern digital communications, wireless communication systems, coding theory and other topics. Electro-magnetics includes such areas as antennas, electro-magnetic compatibility, microwaves, and transmission lines. The master’s degree program in electrical engineering will provide qualified students the opportunity to pursue advanced study in these areas.

The master of science in engineering curriculum requires that at least 18 of the 30 credits be at the 6XX level. In addition, the master of science in engineering in electrical engineering curriculum requires that the 30 credit hours meet the following constraints:

- ECE XXX Approved ECE graduate coursework: 18 hours
- ECE XXX Approved ECE or other graduate coursework: 6 hours
- Thesis or other approved ECE or non-ECE coursework: 6 hours

ECE Courses

5xx. See undergraduate ECE section of this Bulletin for 5xx course descriptions.

601. Filter Synthesis (3 hours)

604. Engineering Analysis (3 hours)
Prerequisites: MAT 293 or equivalent, MAT 330 or equivalent.
Topics from linear algebra, complex analysis, and numerical methods. Emphasis on engineering applications.

623. Computer Architecture (3 hours)
Advanced topics in computer architecture: pipelining, principles, superscalar techniques, vector processors, SIMD computers, MIMD computers, multiprogramming.

631. Special Topics in Digital Signal Processing (3 hours)
Topics of current interest in DSP. Topics chosen based on student and instructor interest: Implementation considerations for digital filters, hardware structures for DSP, two-dimensional signal processing, digital speech processing, radar signal processing.

632. Adaptive Signal Processing (3 hours)
Analysis, design, and implementation of adaptive filters: steepest descent algorithms, least squares, Kalman filter, LMS.

633. Image Processing (3 hours)
Introduction to image processing: perception, imaging, image transforms, image enhancement, restoration, encoding, segmentation, and representation.
634. Statistical Signal Processing  (3 hours)
Random signals and noise, random processes, optimal filters, linear prediction, and spectral estimation.

635. Detection and Estimation  (3 hours)
Methods of parameter estimation of systems: least-squares estimation, properties of estimators, maximum likelihood estimation, maximum a posteriori estimation, state estimation.

641. Applied Electromagnetic Fields I  (3 hours)

642. Applied Electromagnetic Fields II  (3 hours)
Prerequisite: ECE 641.
A continuation of ECE 641.

643. Microwaves  (3 hours)

651. Digital Communication Systems Design I  (3 hours)
Elements of digital communication systems design, review of random signal theory, Shannon’s channel coding and channel capacity theorem, Gaussian and fading channel models, baseband signaling, Nyquist criterion and pulse shaping, channel equalization, binary modulation schemes, coherent and noncoherent detection of binary signals in Gaussian noise.

652. Digital Communication Systems Design II  (3 hours)
Prerequisite: ECE 651 or consent of instructor.
Quantenary modulation schemes, M-ary mutilation schemes, detection of M-ary signals in Gaussian noise, Continuous phase mutilation, digital signaling over fading multipath channels, direct sequence and frequency hopping spread spectrum signaling, CDMA and its applications in mobile/secure communications.

653. Linear Block Codes  (3 hours)
Prerequisite: Graduate Standing.
Galois field theory, linear block codes, algebraic structure of linear cyclic codes, erasures and soft decoding, BCH and Reed-Solomon codes, Berlekamp-Massy algorithm, code modification and concatenation, burst error correction with Reed-Solomon codes.

654. Convolutional Codes  (3 hours)
Prerequisite: ECE 653.
Linear convolutional codes, structural properties of convolutional codes, the Viterbi algorithm, sequential decoding of convolutional codes, punctured convolutional codes trellis coded modulation, turbo codes, performance evaluation of coded signals.

655. Computer and Data Networks  (3 hours)
Prerequisite: ECE Graduate Standing.
Data characterization and encoding, flow control error control, HDLC protocols,
circuit switched networks, packet switched networks, asynchronous transfer mode (ATM) networks, OSI protocols and architecture, TCP/IP protocols, internetworking and the internet.

656. Wireless Networking (3 hours)
Prerequisite: ECE 655 or consent of the instructor.
Characterization of mobile communication channels, the cellular concept and AMPS (Advanced mobile phone services) networks, fixed and random access technologies, second generation cellular networks, packet radio systems and cellular digital packet data (CDPD) networks, GSM networks, IS-54 and IS-95 standards, wireless LAN technologies.

657. Radar Fundamentals (3 hours)
Prerequisite: ECE Graduate Standing.
Generation, detection, and processing of radar signals. Transmitter and receiver characteristics and performance measurement; antenna considerations; range, azimuth, doppler detection; performance in noise.

661. Linear Control Systems (3 hours)

662. Fuzzy Logic Control (3 hours)

669. Special Topics in Control (3 hours)
Prerequisite: ECE 661 or permission of the instructor.
One or more of the following topics: Discrete time control, optimal control, robust control, and nonlinear control.

SPECIAL COURSES: ECE 691, 692, 693, 699 may be taken for variable credit and may be repeated for credit with permission of advisor.

691, 692, 693. Special Topics (1-6 hours)
698. Professional Seminar (1-6 hours)
699. Thesis Research (1-6 hours)

A maximum of 6 hours of research may be counted toward the degree. Only grades of satisfactory or unsatisfactory will be assigned.

Engineering/Technical Management (M.S.E. /M.S.)

The Engineering/Technical Management Master's Degree program builds upon bachelor's degree preparation in the several engineering disciplines and other technical programs such as physics, chemistry, quantitative business administration, etc. Its purpose is to prepare people to successfully address supervisory and managerial needs in a technological environment. The engineering manager's role is viewed as the link between management and technical expertise, and involves matching resources in uncoordinated areas, working through people, and making and implementing management decisions, while simultaneously formulating technical strategies.

This program combines the concepts of management and business adminis-
tration with the technical expertise developed in engineering, mathematics, and the quantitative sciences. Students will take courses in finance for technical managers, program management, operations research, and engineering economy. They will also select several courses to build directly upon their bachelor's area of preparation.

**Admission Requirements**

Each candidate is evaluated separately for admission to the program. However, the following general guidelines will help potential students assess their suitability for the program.

A candidate should:

1. Hold a bachelor's degree or be earning a bachelor's degree from an ABET accredited or equivalent engineering program (for the M.S.E. in Engineering Management) or in a discipline that emphasizes quantitative reasoning and analysis (for the M.S. in Technical Management). Such disciplines include, but are not limited to, mathematics, physics, chemistry, biology, computer science, and economics.
2. Be proficient in written and spoken English.
3. Have completed these undergraduate courses:
   a. Mathematics through calculus
   b. Calculus based probability and statistics course
   c. Computer programming
   d. Economics (preferably Engineering Economy).

The program director, on a case-by-case basis, has considerable leeway to offer provisional admission to candidates whose work experience, maturity, or motivation appear to outweigh deficits in undergraduate preparation.

The master of science in engineering in engineering management and the master of science in technical management curricula require that a total of 30 semester hours of graduate coursework be completed. The program can be arranged with either a thesis option or an all coursework option.

For both options the following requirements must be satisfied:

1) ETM 620. Applications of Probability and Statistics 3 hours

2) One course selected from:
   - ETM 607. Modeling and Simulation
   - ETM 645. Operations Research I
   - ETM 647. Operations Research II
   3 hours

3) One course selected from:
   - ETM 627. Quality Management
   - ETM 641. Reliability and Maintainability Engineering During Life Cycle Management
   - ETM 655. Manufacturing Management
   3 hours

4) One course selected from:
   - ETM 610. Economic Analysis for Manager
   - ETM 643. Program Management
   - BAM 616. Management and Leadership
   3 hours
5) Additional approved ETM graduate coursework: 6 hours

Sub-total 18 hours

For the thesis option:

<table>
<thead>
<tr>
<th>Course Details</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETM 699. Thesis Research</td>
<td>6 hours</td>
</tr>
<tr>
<td>approved 500 or 600 level electives from</td>
<td>6 hours</td>
</tr>
<tr>
<td>the School of Engineering, the Stetson School of</td>
<td></td>
</tr>
<tr>
<td>Business and Economics, or with the consent</td>
<td></td>
</tr>
<tr>
<td>of the student's advisor and program director</td>
<td></td>
</tr>
<tr>
<td>TOTAL hours for thesis option</td>
<td>30 hours</td>
</tr>
</tbody>
</table>

For the all coursework option:

<table>
<thead>
<tr>
<th>Course Details</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>approved 500 or 600 level electives from the</td>
<td>12 hours</td>
</tr>
<tr>
<td>School of Engineering, the Stetson School of</td>
<td></td>
</tr>
<tr>
<td>Business and Economics, or with the consent</td>
<td></td>
</tr>
<tr>
<td>of the student's advisor and program director</td>
<td></td>
</tr>
<tr>
<td>TOTAL hours for all coursework option</td>
<td>30 hours</td>
</tr>
</tbody>
</table>

A minimum of 18 hours (excluding research hours) of 600 level courses are required for either option.

Engineering/Technical Management Minor

Admission to the minor requires the approval of the engineering management program director. Students approved for this minor complete a minimum of 9 semester hours to include one course from three of the areas indicated by items 1-4 above. If at all possible, the student should take ETM 643 as one of these courses.

ETM Courses

607. Modeling and Simulation (3 hours)
Defining and analyzing problems; deterministic vs probabilistic models; continuous vs discrete models; data requirements and structures; developing computer models; debugging and documentation; validation.

610. Economic Analysis for Managers (3 hours)
An in-depth treatment of engineering economy applied to engineering and management problems. Taxation; measuring the worth of projects; selecting among multiple alternatives; capital budgeting models; comparing risky projects; replacement analysis.

620. Applications of Probability and Statistics (3 hours)
Probability distributions; sampling theory; hypothesis testing; single and multi-factor analysis of variance; linear regression and correlation; multiple regression; design and analysis of experiments; emphasis on non-deterministic problems faced by engineers and engineering managers. Stochastic processes.

627. Quality Management (3 hours)
Quality philosophy and quality management concepts, leadership, quality standards, continuous improvement, quality tools, six-sigma, quality costs, employees participation, customer satisfaction, vendor quality, benchmarking, statistical process control, quality function deployment, design of experiments, Taguchi
methods, on-line quality and information technology, case studies and success stories in quality, use of spreadsheets and statistical packages to solve real-world quality problems.

639. **Professionalism, Practice, and Ethics** (3 hours)
Study of the ethical codes of professionals and the relation of these ethical norms to more generally accepted ethical values. Derivation of ethical structures. Delineation of the role of the engineer in assuring public health, safety and welfare.

641. **Reliability and Maintainability** (3 hours)
Reliability and maintainability considerations during the equipment life cycle.

643. **Program Management I** (3 hours)
Program management overview, systems theory and concepts, organization structures, organizing and staffing, general and program management functions. The program environment: problems and pitfalls, conflicts and their resolutions. Case analysis and term project.

645. **Operations Research I** (3 hours)
Models and methods of operations research in solving deterministic engineering and management problems. Includes linear, integer, goal, and dynamic programming; network transportation and assignment problems; and inventory theory.

647. **Operations Research II** (3 hours)
Models and methods of operations research in solving stochastic engineering and management problems. Includes Markov chains and decision processes; queuing theory and applications; nonlinear programming; decision analysis; and forecasting.

655. **Manufacturing Management** (3 hours)
Science of manufacturing/automation, lean and agile manufacturing, theory of constraints, factory dynamics, aggregate planning and master scheduling, material requirement planning (MRP), work-in-process (WIP) inventory models, just-in-time (JIT) manufacturing, variability and flexibility in manufacturing, push and pull production systems, shop floor control, production scheduling, supply chain management, capacity management, economic decision making, case studies and real-world applications.

657. **The Profession in the 21st Century** (3 hours)

671. **Ergonomics I** (3 hours)
Man-machine interfaces and work station design. Practical examination of noise, vibration, light, and other factors that affect human performance.

SPECIAL COURSES: ETM 691, 692, 693, 694, 695, 696, 697, 698, 699 for variable credit.

691, 692, 693, 694, 695, 696, 697. **Special Topics** (1-6 hours)

698. **Professional Seminar** (1-6 hours)

699. **Thesis Research** (1-6 hours)

A maximum of 6 hours of research may be counted toward the degree. Only grades of satisfactory or unsatisfactory will be assigned.
Mechanical Engineering (M.S.E.)

The three major areas comprising mechanical engineering are mechanics, thermal sciences, and materials. Solutions to problems in each of these areas and to more complex problems involving all of these areas require intensive application of mathematics and computational tools. The M.S.E. program in mechanical engineering provides qualified students the opportunity to pursue advanced study in these three areas.

The academic program requires a total of 30 semester hours of credit. In order to provide appropriate depth within the field of study, six courses in mechanical engineering subjects are also required. All students are required to take either MAE 604, Engineering Analysis or MAE 608, Mechanical Engineering Applications of Partial Differential Equations. Both of these courses represent basic techniques of analysis and should be taken as early in the student's program as is practicable.

The master of science in engineering in mechanical engineering curriculum requires that a total of 30 semester hours of graduate coursework be completed. The program can be arranged with either a thesis option or an all coursework option.

For both options:

MAE 604. Engineering Analysis or 3 hours
MAE 608. Mechanical Engineering Applications of Partial Differential Equations

additional approved MAE graduate coursework 15 hours

Sub-total 18 hours

For the thesis option:

MAE 699. Thesis Research 6 hours
approved 500 or 600 level electives 6 hours

TOTAL hours for thesis option 30 hours

For the all coursework option:

approved 500 or 600 level electives 12 hours

TOTAL hours for all coursework option 30 hours

A minimum of 18 hours (excluding research hours) of 600 level courses is required for either option.

Mechanical Engineering Minor

Students desiring a minor in mechanical engineering must arrange to take a minimum of nine semester hours of MAE prefixed 600 level courses.

All minor programs of study must be approved by the mechanical engineering program director.

MAE Courses

604. Engineering Analysis (3 hours)
Prerequisites: MAT 293 or equivalent, MAT 330 or equivalent.
The solution of ordinary and partial differential equations. Use of Laplace and Fourier transforms, and infinity series to obtain solutions. Emphasis on engineering applications.
608. Mechanical Engineering Applications of Partial Differential Equations (3 hours)
Prerequisites: MAT 293 or equivalent, MAT 330 or equivalent.
Characteristics and classification of second order equations. Wave equation; boundary value problems with Laplace’s equation; Green’s function; initial value problems of the wave and heat equations.

621. Advanced Solid Mechanics (3 hours)
Prerequisite: MAE 320 or equivalent.
Torsion of non-circular shafts, bending of curved beams, membrane stresses in shells, bending of flat plates, bending of beams on elastic foundations, inelastic deformation of members in axial loading, torsion and bending.

623. Machine Dynamics (3 hours)
Prerequisite: MAE 422 or equivalent.

630. Advanced Engineering Thermodynamics (3 hours)
Prerequisite: MAE 335 or equivalent.
Theories of thermodynamics and their application to problems in engineering practice and design. Equilibrium, Gibb’s function, non-ideal gases, and second law analysis.

632. Intermediate Fluid Mechanics (3 hours)
Prerequisite: MAE 330 or equivalent.
Study of incompressible viscous flows. Fundamental equations and solutions using both analytical and numerical techniques. Laminar flow, transition, and turbulent flow.

634. Intermediate Heat Transfer (3 hours)
Prerequisites: EGR 235 or equivalent, MAE 310 or equivalent, MAE 330 or equivalent.

635. Conduction Heat Transfer (3 hours)
Prerequisite: MAE 430 or equivalent.
Mathematical theory of steady state and transient heat conduction: solution of the governing differential equations by analytical and/or numerical methods.

636. Convection Heat Transfer (3 hours)
Prerequisite: MAE 430 or equivalent.
Study of convective energy transport in internal and external flows under both laminar and turbulent conditions. Analytical, numerical, empirical solution techniques for governing equations. Heat exchanger analysis and design.

637. Radiation Heat Transfer (3 hours)
Prerequisite: MAE 430 or equivalent.
Mathematical theory of thermal radiation with design applications. Ideal and non-
ideal surfaces, participating media, and radiation in enclosures. Analytical and numerical methods stressed in problem solving.

640. Aircraft Structural Analysis (3 hours)
Prerequisite: MAE 320 or equivalent.

642. Aircraft Structures Design (3 hours)
Prerequisite: MAE 320 or equivalent.
Design of non-buckling beams: design of semi-tension field beams: sandwich panel construction and design: bolted and riveted fittings and connections: welded connections: details in structural design.

650. Finite Elements (3 hours)
Prerequisite: MAE 310 or equivalent, MAE 320 or equivalent, MAE 430 or equivalent.

660. Materials in Mechanical Engineering (3 hours)
Prerequisite: MAE 322 or equivalent, MAE 362 or equivalent.
Analysis of the relationships between the structure of polymeric materials and metals and their mechanical properties. The primary emphasis is on the mechanisms for obtaining strength and ductility in higher strength metals. Materials selection, matching materials and processing with service conditions is considered.

661. Laminated Composite Materials (3 hours)
Prerequisite: EGR 252 or equivalent, MAE 320 or equivalent.
The structure and mechanical properties of composite laminates.

662. Fatigue and Fracture (3 hours)
Prerequisite: MAE 322 or equivalent, MAE 322 or equivalent.
Fatigue and fracture of metals and composites are covered. Fatigue crack initiation, fracture mechanics and fatigue crack growth are covered as well as final fracture.

SPECIAL COURSES: MAE 691, 692, 693, 697, 698, 699 for variable credit. May be repeated for credit with permission of advisor.

691, 692, 693. Special Topics (1-6 hours)
697. Independent Study (1-6 hours)
698. Professional Seminar (1-6 hours)
699. Thesis Research (1-6 hours)

A maximum of 6 hours of research may be counted toward the degree. Only grades of satisfactory or unsatisfactory will be assigned.

Software Engineering (M.S.E)/ Software Systems (M.S.)

Software enables computer systems to fulfill their promise of solving problems and meeting human needs. The application of engineering principles to software development and maintenance is stimulating the emerging profession of software
Software engineering draws from other disciplines as well, such as research and development in artificial intelligence, computer science, and computer technology, to provide software professionals with the tools to solve real world problems. The purpose of this program is to prepare software professionals who are effective in developing and maintaining software for commercial, industrial, and government needs. The program leads to the degree of Master of Science in Engineering in Software Engineering or Master of Science in Software Systems.

Distance Learning

Because of the widespread practice of software engineering, and because students are working professions, the Software Engineering/software Systems program has made a firm commitment to distance learning for the M.S.E. and M.S. programs. Careful attention to instructional design and student interaction provide effective educational experiences for distance education students. For more information, please see the SSE home page at http://www.mercer.edu/engineering/GRAD_PROGRAMS/sse/ssedfault.htm

Admission Requirements

The Master of Science in Engineering in Software Engineering degree is limited to students with undergraduate degrees in engineering and as a minimum a year of multi-module computer programming in a modern high order language. The degree is particularly appropriate for students who work with software for embedded computer systems. The Master of Science in Software Systems degree is designed for students with undergraduate degrees in subjects other than engineering, e.g., computer science. Students with degrees in subjects other than engineering may qualify for admission to the Master of Science in Software Systems program if they have significant experience in programming and other areas of software development and maintenance. Applications from students with degrees in disciplines other than physical science, mathematics, engineering, and computer science will be considered on a case-by-case basis. At a minimum, all students seeking admission to either program should have a year of multi-module computer programming in a modern high order language or equivalent experience, and a background in quantitative methods.

Academic Requirements

Students enrolled in the program are expected to have a sound foundation in object-oriented and structured programming. This foundation is established in SSE 556 and SSE 571, Java Design I and II.

The determination of competence that will result in exemption from the introductory courses, Java Design I, SSE 556 or Java Design II, SSE 571, will be based on other academic courses or documented work experience utilizing computers.

Curriculum

The objectives of the software engineering and software systems programs are to ensure that all graduates: are proficient in software requirements analysis and software design; are proficient in software construction in using two modern programming languages (Java and C++); are proficient in the use of a modern specification language such as UML; are proficient in the use of software process-
es; and develop additional proficiency through the selection of appropriate electives. A program of study for the degrees will include SSE 571, SSE 657, SSE 658, and SSE 659. At least eighteen hours of the student’s course work must be taken in the software engineering program. Of the courses taken in the software engineering program at least twelve hours must be taken at the 600 level. Special topics courses cover areas of current interest in software engineering. Students may include in their programs elective courses from other Mercer graduate programs with the prior approval of their committee and/or the SSE program director.

Students choosing the thesis option are required to do a full research program (6 hours of SSE 699), and to write a master’s thesis in partial fulfillment of the degree requirements.

**Graduate-Level Certificates**

Students meet the same admission standards and perform to the same expectations as all other graduate students seeking the M.S.E./M.S. degree. Certificates suitable for framing are awarded at the successful completion of the courses.

**Java Software Development Certificate**

The Software Engineering/Software Systems program offers graduate-level course work leading to a Certificate in Java Software Development. The Java language offers powerful capabilities that support general application development and are especially suitable for Internet and small device programming. Java offers the advantages of increased platform independence and increased opportunity for the use of software libraries. Java builds on lessons learned from software development in other languages such as C++. This program will prepare the student to apply Java’s capabilities to a variety of software development needs. Two courses constitute this certificate program: SSE 556 and SSE 571. Students who exempt SSE 556 may take another Java-based course in its place to earn this certificate with the approval of the program director.

**Advanced Object Oriented Design Certificate**

The Software Engineering/Software Systems program offers graduate-level course work leading to a Certificate in Advanced Object Oriented Design. The state of the art in object oriented design is advancing rapidly. This program will prepare the student to perform object oriented design (including analysis) at an advanced level, and to apply reusable software designs via the application of design patterns. Two courses constitute this certificate program: SSE 657 and SSE 658.

**Software Engineering/Software Systems Minor**

Admission to the minor requires the approval of the software engineering program director. Students approved for the minor complete a minimum of 9 semester hours consisting of SSE 571; and one of SSE 657, 658, or 659; and one additional SSE course to be selected with the approval of the program director.

**SSE Courses**

**553. Accelerated C++ Design** (3 hours)
Prerequisite: SSE 556
An accelerated course in design for proficient Java developers using the C++ language.
556. Java Design I (3 hours)
Prerequisite: SSE graduate standing or permission of the program director.
The use of a modern object-oriented programming (OOP) language (Java) to
develop software including applications and applets, object oriented program-
ing, basic data types and control structures, methods, graphic displays, and
simple graphic user interfaces. Introduction to software testing. Introduction to a
modern system modeling language such as Unified Modeling Language (UML).
May include topics such as simple exception handling and file I/O.

570. Software Engineering (3 hours)
Prerequisite: SSE graduate standing or permission of the program director.
Software engineering overview, including software processes and software proj-
et management. Software requirements, requirements engineering processes,
system models, prototyping, and formal specification. Software design, distributed
systems architectures, object-oriented design, real-time software design, reuse
and user interface design. Critical systems, dependability, specification, and
development. Verification and validation, software testing, and critical systems val-
idation. Software management, cost estimation, quality management, and
process improvement. Software evolution, change, re-engineering, and configura-
tion management.

571. Java Design II (3 credits)
Prerequisite: SSE 556.
A continuation of SSE 556, with greater breadth and depth. Additional Java APIs
are introduced. Use of peer review such as pair programming, agile software
development, or software inspections. May include topics such as simple excep-
tion handling and file I/O and interfaces to HTML.

572. Disciplined Software Development (3 hours)
Prerequisite: SSE 556.
Individual software development practices for estimating, measuring, and control-
ling process schedule and product quality. May include the Personal Software
Process (PSP).

581. Structures, Algorithms and Timing (3 hours)
Prerequisite: SSE 556.
Object oriented data structures and algorithms for processing them. Timing con-
siderations and timing specification in UML. May include programming with rele-
vant APIs.

SPECIAL COURSES: 591, 592, 593 for variable credit. May be repeated for cred-
ит with permission of the advisor.

591, 592, 593. Special Topics (1-6 hours)

635. Advanced Computational Techniques (3 hours)
Prerequisite: SSE 571.
Topics covered may include genetic algorithms, artificial intelligence, and/or neu-
ral networks.

657. Object-Oriented Project Methods (3 hours)
Prerequisite: SSE 556.
Covers the software development life cycle. General object oriented analysis tech-
niques (OOA) for software and system specifications are presented and applied
to develop application domain models and requirements specifications. Techniques for transforming the requirements specifications into designs are presented and applied to develop language independent object oriented designs (OOD). A modern specification language such as UML will be used. Iterative and incremental software processes.

658. Design Patterns (3 hours)
Prerequisite: SSE 571.
Advanced topics in object oriented design (OOD), emphasizing the reuse of successful designs via design patterns.

659. Refactoring (3 hours)
Prerequisite: SSE 556.
Software maintenance and the improvement of the design of existing code. Incremental development, adding new features with support from refactoring.

660. Software Test (3 hours)
Prerequisite: SSE 556
Software resting at several levels and at several states of development, including acceptance testing

673. Software Processes (3 hours)
Prerequisite: SSE graduate standing or permission of the program director.
This course explores the nature of the software development process and means for controlling the process so as to improve the product and control development costs and risks. Issues including development organization, project planning, configuration management, quality assurance, standards, validation and verification, and process monitoring and process improvement are presented and explored. Techniques for improving the level of maturity of the software development process are considered. Standards such as ISO or CMM may be used.

674. Software Risk Management (3 hours)
Prerequisite: Permission of the program director.
Risk is inherent in virtually every software engineering project. Two kinds of risk are opportunity risk, which is the loss from avoiding risk, and failure risk, which is the loss from taking a risk, but failing to achieve the corresponding goal. The loss may be financial, or it may be competitiveness in a market, or the development and acquisition of reusable software components, or many other valuable things. This course covers topics such as people, process, infrastructure, and implementation in software risk management.

681. Real Time Embedded Software (3 hours)
Prerequisites: SSE 571.
Topics may include object-oriented design techniques for real-time systems, use of a specification language such as UML for real-time systems, and implementation in an embedded systems language such as Embedded Java or Real Time Java.

SPECIAL COURSES: 691, 692, 693, 698, 699 for variable credit. May be repeated for credit with permission of the advisor.

691, 692, 693. Special Topics (1-6 hours)
698. Professional Seminar (1-6 hours)
699. Thesis Research (1-6 hours)
A maximum of 6 hours of research may be counted toward the degree. Only grades of satisfactory or unsatisfactory will be assigned.

Technical Communication Management (M.S.)

The Master of Science degree in Technical Communication Management is an innovative graduate degree that is designed for professionals in technical communication who want to prepare themselves to assume leadership roles within technical communication organizations. It builds upon bachelor’s degree preparation in technical communication or a scientific or related discipline and upon significant work experience. The M.S. degree combines theory and research with the best practice. It thus parallels the educational philosophy in the School of Engineering’s other graduate programs: to provide quality education to working professionals.

Distance Learning

Because of the widespread use of communication technologies in the workplace, and because students are working professionals, the Department of Technical Communication has made a firm commitment to distance learning for the M.S. program in Technical Communication Management. Careful attention to instructional design and student interaction provide effective educational experiences for distance education students. For more information, please see the MSTCO home page at http://www.mercer.edu/mstco.

Degree Requirements

Admission: For full admission, the candidate will hold a bachelor’s degree from an accredited institution, have at least a 3.0 undergraduate grade point average, and will have at least three years industry experience. Proficiency in use of the computer is a prerequisite, since students will receive course materials and create projects on the World Wide Web. Students should also be self-managed professionals and highly disciplined learners.

Curricular Requirements: Students will take four course modules plus a capstone and elective. The degree requires a total of 30 semester hours.

Modular Structure: Course modules are designed to provide both breadth and depth of knowledge and experience in the key subject areas for technical communicators. The modules are as follows:

1. Foundations
   - TCO 605. Usability (3 hours)
   - TCO 650. History and Theory of Tech Communication (3 hours)

2. Media
   - TCO 620. Multimedia (3 hours)
   - TCO 622. New Media (3 hours)

3. Management in Technical Communication
   - TCO 630. Managing People and Projects (3 hours)
   - TCO 632. Knowledge Management (3 hours)

4. Design
   - TCO 660. Information Design (3 hours)
   - TCO 665. Instructional Design (3 hours)
Capstone and Elective
TCO 685. Project Research (3 hours)
Approved Free Elective * (3 hours)
Total Required: 30 semester hours

*Free electives may consist of Special Topics courses, Independent Research topics, or courses taken from another accredited graduate program; requires approval of department chair.

Project Research, Special Courses

TCO 685. Project Research (3 hours)
TCO 691. Special Topics (var. 1-3 hours)
TCO 699. Independent Research (var. 1-3 hours)

Graduate-Level Certificates

Any of the four modules above may be taken for a graduate-level certificate. Students meet the same admission standards and perform to the same expectations as all other graduate students seeking the M.S. degree. Certificates suitable for framing are awarded at the successful completion of the module.

Technical Communication Management Minor

Admission to the minor requires the approval of the technical communication management program director. Students approved for the minor complete a minimum of 9 semester hours to include any of the content modules above, plus an additional course from one of the three remaining modules. Students must perform to the same expectations as all other graduate students seeking the MS degree.

TCO Courses

605. Usability (3 hours)
Designing and testing for usability of information products. Course includes study of human factors related to usability, user and task analysis and design of interfaces and usability testing techniques. Class consists of lecture, seminars and projects.

620. Multimedia (3 hours)
The course is a study of the theory and practice of using various media to communicate information. Students plan, design, and create a multimedia product to meet the needs of a specific audience in a work environment. Attention is given to designing for international or multi-cultural audiences. Class consists of lecture, seminars and projects.

622. New Media (3 hours)
Evaluating new media for effectiveness includes research, planning, and management. Students research cutting-edge media applications, evaluate applicability to the business enterprise, determine trade-offs, and plan for acquisition, training, and updating. Class consists of lecture, seminars, and projects.
630. Managing People and Projects (3 hours)
A study of the best current methods for establishing and managing technical communication organizations, including international and multi-cultural work teams. Topics include developing virtual teams, cross-disciplinary work teams, and international considerations. Class consists of lecture, seminars, and projects.

632. Knowledge Management (3 hours)
Management of knowledge, both tacit and explicit, is one of the most demanding challenges faced by information creators and managers. Students study current concepts and technologies of knowledge management, including such topics as portals, roles of technical communicators within organizations, political and power issues of knowledge management, and effects on business practices. Class consists of lecture, seminars, and research reports.

650. History and Theory of Technical Communication (3 hours)
A study of theory and practice underlying the field of technical communication, including such topics as rhetorical theory, history of the discipline, and roots of technical communication in various fields of study. Introduction to research methods in tech comm. Students conduct research and present seminar papers.

660. Information Design (3 hours)
Design of information for many audiences, purposes, and modes of delivery. Emphasis on writing and developing information for the Web or online delivery, for single sourcing, and for multiple audiences including international ones. Attention to visual graphical design. Class consists of lecture, seminars, and projects.

665. Instructional Design (3 hours)
Designing information products for teaching, training, or instruction using a systematic method. Course includes foundations in cognition and learning theory. Topics include designing for delivery in person, on CD, computer-based training (CBT), Web-based training, etc. Class consists of lecture, seminars, and projects.

685. Project Research (3 hours)
Prerequisite: Permission of the Program Director
A capstone project in which students research, design, and prototype an information product for use in a particular work setting. Students demonstrate mastery of content, methods, and management skills acquired in the MSTCO program. The research team usually works with a client, with the instructor serving as the supervisor of the project team. (Not open to students who are minoring in technical communication.) Class consists of research, team projects, and production of deliverables.

691. Special Topics (variable, 1-3 hours)
Topics of interest to technical communicators. May be repeated for up to 6 credits towards the master's degree.

699. Independent Research (variable, 1-3 hours)
Students who wish to complete independent studies or research must submit proposals and again approval of the chair of the technical communication department in order to count these credits towards the master's degree. May be repeated for up to 6 credits.
Tift College of Education

Carl Richard Martray, Ph.D., Dean/Professor
Allison C. Gilmore, Ph.D., Associate Dean/Professor
Susan C. Malone, Ed.D., Associate Dean/Associate Professor
Catherine M. Gardner, Harriet A. Hathaway, Albert A. Stramiello, Richard V. Swindle, and Mary E. Willingham, Professors
Linda Adams, Mary Kay Bacallao, Macklin D. Duggins, Penny L. Elkins, Jianhua Feng, Janet S. Fields, William O. Lacefield, Dana H. Lilly, Margaret R. Morris, Bruce E. Sliger, Associate Professors
Patrice Grimes, Margaret McCall and Lucile F. Maples, Instructors

The Tift College of Education offers a Master of Education degree in The Holistic Educator on the Macon campus; Graduate degree programs within Tift are approved by the Georgia Professional Standards Commission and are under the direction of the Tift College of Education and the University Graduate Council.

Tuition and Fees - Graduate Programs

Cost per Credit Hour .................................................. $292

APPLICATION DEADLINES

Applications (including transcripts and other supporting materials) must be received by the following dates:

August 1 for Fall admission
December 1 for Spring admission
May 1 for Summer admission.

The Conceptual Framework

Within the context of a distinctive Baptist heritage, the inclusion of the Paideia ideal, and the know-how of blending theory and practice, the Tift College of Education has chosen for its conceptual framework the theme: “The Transforming Practitioner - To Know, To Do, To Be.”

TO KNOW

To Know the foundations of the education profession, content bases for curricula, and characteristics of diverse learners.

1. Demonstrates knowledge of the philosophical, historical, sociological, legal, and psychological foundations of education.
2. Demonstrates expertise in the content bases for curricula, the appropriate uses of technology, good communication skills, and effective pedagogy.
3. Shows understanding of and respect for the characteristics, cognitive and social developmental stages, emotional and psychological needs and learning styles of diverse and special needs learners.
TO DO
To Do the work of a professional educator in planning and implementing well-integrated curricula using developmentally appropriate and culturally responsive instructional strategies, materials, and technology.

1. Plans, implements and assesses well-integrated, developmentally-appropriate, and culturally-responsive lessons which are well grounded in pedagogical and psychological theory.

2. Individualizes, differentiates, and adapts instruction to meet the needs of diverse and special needs learners.

3. Uses a wide variety of teaching methods, strategies, technology, and materials.

TO BE
To Be a reflective, collaborative, and responsive decision-maker, facilitator, and role model within the classroom, school, community, and global environment.

1. Uses feedback, reflection, research, and collaboration to enhance teaching performance, revise and refine instruction, make decisions, develop and modify instruction, and grow as a professional.

2. Models understanding, respect, and appreciation for diverse educational, cultural, and socioeconomic groups; a willingness to consider diverse opinions and perspectives; and concern for community and global awareness.

3. Models positive and effective interpersonal skills interacting with learners, parents, other educators and members of the community.

MASTER OF EDUCATION
The purpose of the graduate program in Education is to prepare teachers who will have a philosophy of growth and change based on reliable knowledge about the principles and practices of education. A further objective is to educate teachers in the skills of research and to foster a disposition to initiate and promote basic and applied research. The College will provide courses to meet all program requirements within a minimum of two calendar years from the time the student enrolls. The College is not under obligation to grant individualized study through directed/independent study courses or special topics research courses unless the College fails to schedule the course requirements within the time specified. The policies of the graduate program are under the review of the University Graduate Council.

The Graduate Program of the Tift College of Education recognizes the importance of addressing technological advancements within society. Therefore, emphasis on the relevance of technological developments will be infused throughout courses in the graduate program.

All course work within the Tift College of Education reflects the faculty's recognition of students with diverse and special needs. Mercer's graduate programs are designed to prepare all teachers to plan appropriately for disabled, special needs, and other diverse populations.

Approved Programs
Mercer's Teacher Education Program is accredited by the Georgia Professional Standards Commission for graduate study in the following:
The innovative new Master’s degree program entitled the Holistic Educator is offered on the Macon Campus. Students enrolled in other M.Ed. programs on the Macon Campus listed above will be allowed to complete their degree requirements, but new students will no longer be accepted into those programs. New students who wish to earn graduate degrees in the education programs listed above may enroll for those degrees on the Atlanta Campus.

Academic Standards for M.Ed. Students

Students in the M.Ed. Program are required to maintain a cumulative GPA of at least 3.0 (B) in all classes taken toward the degree. If a grade below “C” is assigned in a graduate class, no credit is awarded for that class. Students cannot have more than two “C/C+’s” in those classes counted toward the degree. Students may repeat a class only once in order to increase the grade earned in that class and no student may repeat more than two classes in his/her program of study with Mercer. A student may not repeat an equivalent class at another college in order to replace a grade earned at Mercer.

If a student’s cumulative GPA falls below 3.0, the student will be placed in a probationary status until he/she raises the average to 3.0. A student who is on academic probation is limited to one course per semester until the average has been raised to 3.0. If the semester average falls below 2.0 (‘C’), the student’s case will be reviewed by the Department Chair and the graduate faculty and, without extenuating circumstances, the student will be dismissed from the graduate teacher education program.

Limitation in Completion of Requirements

A student in a master’s program must complete all degree requirements within a six-year period. Time limits shall be computed from and include the first semester of credit applied to the degree program. Students who do not enroll for three consecutive semesters are subject to all program policies, guidelines, and requirements in place at the time of re-enrollment.

General Requirements for the Degree

Since all candidates for the degree of Master of Education will major in education, all programs must be approved by the Tift College of Education. The minimum credit requirements for the degree are 36 semester hours of graduate credit. No credit will be given for courses taken more than six years prior to the date on which the degree is to be conferred.

There are certain conditions which must be met to transfer regular graduate credit to Mercer’s graduate program. The institution must be accredited, and the student must be admitted to the institution’s regular graduate program. Graduate work taken at other institutions must be part of a planned program leading to a degree equivalent to the degree of Master of Education at Mercer. The work must be appropriate for the student’s planned program. The maximum amount of transferred credit is limited to 6 semester hours. Only courses in which the student earned a “B” or better will be considered for transfer credit. Courses taken for another degree previously earned may not be applied to the M.Ed.
HOLISTIC EDUCATOR

Mission Statement for the Holistic Educator, M.Ed.

The Holistic Educator, a masters program within the Tift College of Education, provides a pathway for professionals seeking advanced knowledge and growth along the continuum of philosophical, cognitive, and cultural empowerment. Acknowledging that the personal self is the cornerstone for the development of the professional self, candidates negotiate both place and identity within a collaborative framework.

The Goals:

<table>
<thead>
<tr>
<th>Mercer University Goals</th>
<th>The Holistic Educator Goals</th>
</tr>
</thead>
<tbody>
<tr>
<td>To offer graduate and professional programs based upon a strong liberal arts foundation</td>
<td>To demonstrate the characteristics of a transforming practitioner at a mastery level</td>
</tr>
<tr>
<td>To support a highly qualified faculty that is student and teaching oriented and is engaged in scholarly research and professional activities</td>
<td>To understand and participate in a collaborative relationship with other professionals and parents in planning and implementing instructional programs</td>
</tr>
<tr>
<td>To foster independent and critical thinking and a continuing interest in learning</td>
<td>To recognize one’s point of growth along the continuum of education toward a mastery level To demonstrate the characteristics of a transforming practitioner at a mastery level</td>
</tr>
<tr>
<td>To foster intellectual and spiritual freedom in an environment that encourages tolerance, compassion, understanding, and responsibility</td>
<td>To know self as an individual</td>
</tr>
<tr>
<td>To offer a variety of intellectual, cultural, recreational, and spiritual activities designed to enlarge capacity for improved judgment and moral, ethical, and spiritual growth</td>
<td>To know self as an individual</td>
</tr>
<tr>
<td>To encourage the enrollment of qualified persons from diverse backgrounds and situations</td>
<td>To understand and participate in a collaborative relationship with other professionals and parents in planning and implementing instructional programs</td>
</tr>
<tr>
<td>To contribute campus resources in partnership with other institutions and agencies to improve the educational, social, and economic development of the community</td>
<td>To understand and participate in a collaborative relationship with other professionals and parents in planning and implementing instructional programs</td>
</tr>
</tbody>
</table>

Outcomes: (Correlated to the Conceptual Framework of the Tift College of Education - The Transforming Practitioner – To Know, To Do, To Be)

The graduate candidate:

- Meets criteria for admission to the program (To Do)
– Plans curriculum connected to the characteristics of the learners (To Know, To Do)
– Assesses, diagnoses, and evaluates curricular practices and learners (To Know, To Do)
– Recognizes the importance of schools and/or related agencies meeting the educational, psychological, and social needs of students and families in a well-planned holistic manner (To Know, To Be)
– Plans and manages the teaching and learning environment (To Know, To Do)
– Manages students’ behavior and social interaction skills (To Know, To Do)
– Communicates and collaborates with partnerships (To Know, To Do)
– Practices professionalism and ethical practices (To Be)
– Plans instructional content and classroom practices (To Know, To Do)
– Performs action research (To Do)
– Completes program of study (To Know, To Do, To Be)

Program Design:
• 36 semester hours
• Cohort Groups
• 2 courses per semester
• Candidates for cohort groups include:
  1. Certified Classroom Teachers
  2. Child and Family Specialists
  3. Childcare Professionals
  4. Health Educators

Criteria for Admission:
• Appropriate baccalaureate degree in a related field
• A minimum cumulative undergraduate GPA of 2.75
• A combined score of at least 800 (Quantitive plus Verbal) on the Graduate Record Exam (GRE) or 41 on the Miller’s Analogy Test (MAT)
• Two official copies of all Transcripts
• A $25.00 application fee

Special Student Classification
Students seeking re-certification, certification in an additional field, transient enrollment, or initial certification in a non-degree status will be assigned to the classification of “Special Student.” This classification allows students to enroll for graduate credit upon completion of the following admissions requirements:
1. Application
2. Application fee of $25.00
3. Transcripts (two official copies of each)
4. Additional requirements as applicable:
   a. Initial certification students: Undergraduate GPA of 2.5 or better.
   b. Re-certification or add-on certification: Copy of letter from Professional Standards Commission or school system outlining the courses required for re-certification or for adding a field.
c. Transient students: Copy of a letter of transient permission from the degree granting college or university.

Non-degree students who are seeking initial certification must complete all of their certification requirements at Mercer with a B or better in all courses. All initial certification students must meet the Praxis I requirement and qualify for full admission to Teacher Education prior to registration for their second term with Mercer and must pass the appropriate Praxis II prior to certification.

**Academic Standards for Non-Degree Students**

Non-degree students are required to maintain a cumulative GPA of at least 3.0 ("B") on all classes taken with Mercer. Students in the non-degree initial certification program must earn a "B" or better in all classes required for certification. Students may repeat a class only once in order to increase the grade earned in that class and no student may repeat more than two classes in his/her program of study with Mercer. A student may not repeat an equivalent class at another college in order to replace a grade earned at Mercer. No credit is awarded for classes in which a grade below "C" is assigned.

If a student's cumulative graduate GPA falls below 3.0, the student will be placed in a probationary standing until he/she raises the average to 3.0. A student who is on academic probation is limited to one course per semester until the average has been raised to 3.0. If the semester average falls below 2.0 ("C"), the student's case will be reviewed by the Chair and the graduate faculty and, without extenuating circumstances, the student will be dismissed from the graduate teacher education program.

**Add-On Certification**

Students interested in adding other fields to a current certificate should see their advisor. In most cases, it is recommended that the student contact the Georgia Professional Standards Commission for information on requirements for adding a field to a current certificate.

**Admissions Appeals Policy**

Prospective students who have been denied admission to any classification within the graduate program may appeal that decision in writing to the chair or a designated representative. Each appeal will be reviewed and decided upon by the graduate faculty in regular business session. Admission to a program does not guarantee placement for student teaching. In addition, admission does not ensure satisfactory completion of the program selected nor recommendation for certification.

**Grade Appeals Policy**

Students are encouraged to first meet with their instructor to discuss any disagreements regarding a grade. They may then appeal to the chair of the department. If satisfaction is not achieved, the student may then wish to submit an appeal to the Grade Appeals Committee. Grade appeals must be submitted in writing within thirty days after the grade has been issued.

**Course Load**

An academic load of 9 semester hours qualifies a graduate student for full-time status for financial aid. Requests for overloads beyond 9 hours must be approved by the Dean.
Code of Ethics for Educators

All students admitted into the Tift College of Education are expected to abide by the Code of Ethics for Educators as published by the Georgia Professional Standards Commission. Violation of any standard within the Code of Ethics may result in dismissal from the program.

Participation in Commencement Ceremonies

Students who have met all degree requirements may participate in the Commencement ceremony. Other graduate students may participate if they meet both of the following conditions:

1. If they are within six hours or less of completing all degree requirements.
2. If they meet the minimum GPA requirements for the degree.

COURSE DESCRIPTIONS

NOTE: Course Requirements may include Field Experience

EDUCATION (EDUC)

604. Philosophy and School Structures (Research Element) (3 hours)
The educational philosophies influencing educational practice and how these have influenced the existing structures of schooling are addressed. An introduction to educational research is integrated in order to aid candidates in the acquisition of skills and knowledge needed to study the existing structures in schools. An electronic portfolio is generated as an on-going assessment instrument. (Program assessment/exit criterion)

606. Cognitive Empowerment (3 hours)
Psychological principles of human behavior and the relationship of growth and development of the learning process are studied, including motivation, readiness, transfer and learning, individual differences, and personality theories. Both cognitive and affective dimensions of learning are addressed.

608. Advanced Curriculum Planning (3 hours)
An in-depth examination of issues related to the education of P-12 student with and without special needs, as well as appropriate curriculum and instructional strategies for meeting these needs are reinforced. Attention is given to the modification of curriculum and instruction in order to adapt to the needs of students with MR, LD, and BD. Student assessment, management of problem behaviors, and curriculum individualization are examined.

610. Assessment – Formal and Informal (3 hours)
This course focuses on the purposes and types of assessments of student learning used in today's classrooms. Topics of discussion/research include traditional and alternative forms of formal and informal assessment, authentic assessment, Bloom's Taxonomy as related to assessment, rubrics and other evaluative tools, and the role of Georgia's Quality Core Curriculum Objectives in student assessment. Appropriate emphasis is placed on preparation for implementation of an action research/assessment project in a field setting.
631. The Holistic Educator (3 hours)
The Holistic Educator addresses how teachers, while considering the characteristics of learners as well as the needs of the broader community, become instruments of change in school by creating a supportive environment of learners among students and administrators. Candidates consider ways to craft knowledge to meet the needs of the students, ways to address critical issues of diversity and learning, ways to reflect upon identity and place, and ways to negotiate effective change within the culture of school.

632. Building Home/School/Community Partnerships (3 hours)
An investigation of home, school, and community provides techniques and strategies for creating respectful, reciprocal relationships to support and empower families, and to involve all families in their children's development and learning. Successful home, school, and community involvement programs are reviewed and analyzed. Effective communication strategies for families and other professionals are examined.

633. Classroom Management for the Diverse Learner (3 hours)
This course is an extension and enhancement of the theory, knowledge, and strategies for classroom management for educators who work with diverse learners. Focus is an in-depth study of specific research-based management strategies and programs for gaining and maintaining student cooperation in the classroom. Specific problems, such as violence, are addressed.

634. The Culturally and Linguistically Diverse Learner (3 hours)
Providing students with theories, knowledge, and strategies for understanding and teaching the culturally and linguistically diverse student populations in today's classroom, this course goes beyond the usual rhetoric promoting diversity to present real-world guidance and recommendation for successful teaching in the changing classroom environment.

635. Counseling for Emotional Empowerment (3 hours)
Candidates learn the history, culture, and expectations of various ethnic and cultural groups and develop cross-cultural communication skills necessary to address the unique challenges diversity brings to the provision of counseling and psychological service within school and among community agencies. Critical issues of place, identity, sexism, immigration, poverty, and racism influence counseling practices and development of interventions.

638. Best Practices Methods (3 hours)
This course provides in-depth instruction in Best Practice in Education, applicable for P-12 teachers. Candidates explore best practice standards in specific areas of study, i.e., literacy and language arts, social studies, mathematics, and science. Application of best practice standards involves integrative unit planning, small group activities, authentic experiences, and reflective assessment across subject areas and grade level.

640. Pedagogy for All Learners (3 hours)
Active learning models demonstrated throughout the masters programs (e.g., experiential teaching, problem-solving teaching, active learning), are connected theoretically to the needs of all learners. Pedagogically grounded in the constructivist theory, these research-based instructional strategies are presented in a culminating manner for increased and effective student learning.
689. Action Research Project (3 hours)
The action research project requires an extensive review of educational literature in a selected area of study – connected to an applied research project in a field setting. The project is planned and executed by the candidate under the direction and supervision of the instructor. (Program assessment/exit criterion)
Mercer University
School of Medicine

Ann Connor Jobe, B.A., M.S.N., M.D., R.N., Dean

FAMILY THERAPY AND FAMILY SERVICES PROGRAM

Lee Duke Bowen, Jr., Director/Assistant Professor
Rachel Brown, Professor
Sonia Miles, and Melton Strozier, Associate Professors
Grady Carter, Matthew Orr and Sandra Shoemaker, Assistant Professors
Jane Ford, Warren Jones, Kathryn McGehee, Edward Ruffin, and Kay Shurden,
Part-Time Faculty
Martha Fennell and Jane Hardee, Instructors

The Master of Family Therapy and the Master of Family Services degree programs provide rigorous preparation for careers in the family therapy and family services professions. A Post Masters Certificate in Marriage and Family Therapy is offered which meets the academic requirements for sitting for the Georgia licensing examination as a marriage and family therapist. Post Master Certificate Programs in Pediatric Family Therapy and in Medical Family Therapy are also offered.

Master of Family Therapy (MFT)

An integrative family systems approach is emphasized which draws from the various theoretical perspectives: multigenerational, individual and family development, object relations, contextual, structural, strategic and Bowen Family Systems theory. This program of study satisfies the requirements to sit for the Georgia licensing exam as a marriage and family therapist and leads to admission into the American Association for Marriage and Family Therapy.

Master of Family Services (MFS)

Using an integrative family systems approach, this degree program emphasizes knowledge of family problems and their treatment and management through a wide range of settings (public, private, profit and non-profit). This is a non-clinical degree and is directed toward those students who envision careers in administration and management in an institution or agency setting. The student will gain an understanding of families as well as the role of various community agencies as they interface with the needs of families from a systems theoretical perspective.

Post Masters Certificate in Marriage and Family Therapy

The Georgia Composite Board for Professional Counselors, Clinical Social Workers, and Marriage and Family Therapists requires that all licensed MFT's must have at least five specialized courses and three years of practice, one year of which can be in a University MFT Practicum. This Post Masters Certificate in Marriage and Family Therapy program is designed for professionals who hold a Master's or a Doctor's degree in a helping profession (i.e., psychology, medicine, counseling, social work, and others). A minimum of one year of clinical practicum is required. The successful completion of the Post Masters Certificate in Marriage
and Family Therapy meets the academic requirements for sitting for the Georgia licensing examination as a marriage and family therapist.

**Post Masters Certificate in Medical Family Therapy**

The Post Masters Certificate in Medical Family Therapy provides a therapeutic training specialization to equip family therapists to work confidently and collaboratively with physicians and other health care providers in addressing the unique psychosocial problems of individuals, couples and families with acute and chronic medically related concerns. Admission into the Post Masters Certificate Program in Medical Family Therapy requires a minimum of a master's degree in Marriage and Family Therapy, Social Work, Counseling/Counseling Psychology, a Master of Divinity degree with a clinical emphasis, or a Doctor of Medicine degree. Individuals with a minimum of a master's degree in an allied mental health area other than MFT may be required to take additional master's-level coursework from the existing MFT curriculum prior to beginning the program. Applicants who have not completed graduate-level coursework in child development, family systems theory, and/ or family therapy theories will need to successfully complete MFST 615 Family Systems I, MFST 655 Child Development and MFST 630 Methods in Family Therapy or the equivalent of each.

**Post Masters Certificate in Pediatric Family Therapy**

The Post Masters Certificate in Pediatric Family Therapy provides a therapeutic training specialization for addressing the unique psychosocial concerns of children and families as they access and interface with the health care system. Admission into the Post Masters Certificate Program in Pediatric Family Therapy requires a minimum of a master's degree in Marriage and Family Therapy, Social Work, Counseling/Counseling Psychology, a Master of Divinity degree with a clinical emphasis, or a Doctor of Medicine degree. Individuals with a minimum of a master's degree in an allied mental health area other than MFT may be required to take additional master's-level coursework from the existing MFT curriculum prior to beginning the program. Applicants who have not completed graduate-level coursework in child development, family systems theory, and/ or family therapy theories will need to successfully complete MFST 615 Family Systems I, MFST 655 Child Development and MFST 630 Methods in Family Therapy or the equivalent of each.

**CURRICULUM**

**Master of Family Therapy**

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Semester Hours</th>
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</thead>
<tbody>
<tr>
<td>MFST 600. Introduction to Family Studies</td>
<td>3 hours</td>
</tr>
<tr>
<td>MFST 615. Family Systems I</td>
<td>3 hours</td>
</tr>
<tr>
<td>MFST 616. Family Systems II</td>
<td>3 hours</td>
</tr>
<tr>
<td>MFST 620. Family Therapy with Major Psychopathology</td>
<td>3 hours</td>
</tr>
<tr>
<td>MFST 630. Marriage and Family Therapy Methods</td>
<td>3 hours</td>
</tr>
<tr>
<td>MFST 640. Family Treatment of Addiction</td>
<td>3 hours</td>
</tr>
<tr>
<td>MFST 650. Human Sexual Dysfunction</td>
<td>3 hours</td>
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<tr>
<td>MFST 655. Child Development</td>
<td>3 hours</td>
</tr>
<tr>
<td>MFST 656. Adolescent Development</td>
<td>3 hours</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
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</tr>
<tr>
<td>MFST 657.</td>
<td>Adult Development</td>
</tr>
<tr>
<td>MFST 670.</td>
<td>Ethics and Professional Practice</td>
</tr>
<tr>
<td>MFST 675.</td>
<td>Family Research Methodology</td>
</tr>
<tr>
<td></td>
<td><strong>Total - 36 hours</strong></td>
</tr>
</tbody>
</table>

**Electives (1 of 3)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFST 665.</td>
<td>Gender Development</td>
<td>3 hours</td>
</tr>
<tr>
<td>MFST 697.</td>
<td>Special Topics in Marriage and Family</td>
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<td><strong>Total - 3 hours</strong></td>
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</table>

**Practicum**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFST 696.</td>
<td>Practicum - Therapy Setting (3 Semesters)</td>
<td>3 hours</td>
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<tr>
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<td><strong>Total - 9 hours</strong></td>
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</tbody>
</table>

**Master of Family Services**

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>MFST 600.</td>
<td>Introduction to Family Studies</td>
<td>3 hours</td>
</tr>
<tr>
<td>MFST 615.</td>
<td>Family Systems I</td>
<td>3 hours</td>
</tr>
<tr>
<td>MFST 616.</td>
<td>Family Systems II</td>
<td>3 hours</td>
</tr>
<tr>
<td>MFST 640.</td>
<td>Family Treatment of Addiction</td>
<td>3 hours</td>
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<tr>
<td>MFST 650.</td>
<td>Human Sexual Dysfunction</td>
<td>3 hours</td>
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<tr>
<td>MFSS 680.</td>
<td>Management of Family Services I</td>
<td>3 hours</td>
</tr>
<tr>
<td>MFSS 681.</td>
<td>Management of Family Services II</td>
<td>3 hours</td>
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<tr>
<td>MFST 655.</td>
<td>Child Development</td>
<td>3 hours</td>
</tr>
<tr>
<td>MFST 656.</td>
<td>Adolescent Development</td>
<td>3 hours</td>
</tr>
<tr>
<td>MFST 657.</td>
<td>Adult Development</td>
<td>3 hours</td>
</tr>
<tr>
<td>MFST 670.</td>
<td>Ethics and Professional Practice</td>
<td>3 hours</td>
</tr>
<tr>
<td>MFST 675.</td>
<td>Family Research Methodology</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td><strong>Total - 36 hours</strong></td>
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</tbody>
</table>

**Electives (1 of 3)**

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<td>3 hours</td>
</tr>
<tr>
<td>MFST 697.</td>
<td>Special Topics in Marriage and Family</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>a. Medical Family Therapy</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>b. Differentiation and Spirituality</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td><strong>Total - 3 hours</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Practicum**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFSS 695.</td>
<td>Practicum - Institutional Setting</td>
<td>6 hours</td>
</tr>
<tr>
<td></td>
<td><strong>Total - 6 hours</strong></td>
<td></td>
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</tbody>
</table>

**Post Masters Certificate in Marriage and Family Therapy**

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFST 600.</td>
<td>Introduction to Family Studies</td>
<td>3 hours</td>
</tr>
<tr>
<td>MFST 615.</td>
<td>Family Systems I</td>
<td>3 hours</td>
</tr>
<tr>
<td>MFST 616.</td>
<td>Family Systems II</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

**Total Credit Hours Required - 45 hours**
MFST 620. Family Therapy with Major Psychopathology 3 hours
MFST 630. Marriage and Family Therapy Methods 3 hours
MFST 640. Family Treatment of Addiction 3 hours
MFST 650. Human Sexual Dysfunction 3 hours
MFST 670. Ethics and Professional Practice 3 hours
MFST 696. Practicum - Therapy Setting (3 Semesters) 9 hours

Total Credit Hours Required - 33 hours

Post Masters Certificate in Medical Family Therapy

Required Courses Semester Hours
MFST 730. Methods in Medical Family Therapy 3 hours
MFST 755. Pediatric Medical Family Therapy 3 hours
MFST 757. Advanced Developmental Theory in Family Therapy 3 hours
MFST 770. Chronic Illness, Death & Dying 3 hours
MFST 796. Practicum in Medical Family Therapy 4 hours

Total Credit Hours Required - 16 Hours

Post Masters Certificate in Pediatric Family Therapy

Required Courses Semester Hours
MFST 720. Advanced Developmental Psychopathology 3 hours
MFST 731. Methods in Pediatric Family Therapy 3 hours
MFST 755. Pediatric Medical Family Therapy 3 hours
MFST 757. Advanced Developmental Theory in Family Therapy 3 hours
MFST 797. Practicum in Pediatric Family Therapy 4 hours

Total Credit Hours Required - 16 Hours

Full Time Status

A full-time course load for a graduate student is six credit hours per semester. A graduate student may not register for more than six credit hours in any one semester unless the student obtains permission from the Director of the Programs.

ADMISSIONS INFORMATION

G.P.A. Requirement

An overall undergraduate grade point average of 2.50 or better based on a 4.0 system is required for all programs.

Prerequisite Courses

All students entering the Master of Family Therapy Program must have completed one course each in Current Psychotherapies or Personality Theory and Psychopathology (Abnormal Psychology) prior to being accepted into the Masters Program and beginning any of the MFT courses. Prerequisite courses may be taken while an application is in process.
Application Process for Master of Family Therapy (MFT) and Master of Family Services (MFS)

Each of the following items is required for completion of the application process:

1. A completed MUSM Graduate Application form and a non-refundable fee of $40.

2. Official transcripts, sent directly from the college or university for all college-level work completed to earn a baccalaureate degree from an accredited college or university.

3. Official transcripts, sent directly from the college or university for any work completed in addition to the undergraduate degree.

4. Official test results from either the Graduate Records Exam (GRE) or the Miller Analogies Test (MAT) taken within the last seven years. Students may enroll in prerequisite courses prior to submitting official test scores. Test score information will be evaluated by the Program Director as part of the academic advising process. Students interested in taking a GRE or MAT preparation seminar prior to enrolling for the actual examination may contact the Student Development Office of Mercer University. Please have an official copy of your test scores sent to: Mercer University, School of Medicine - Admissions Office, using the institutional code - 5409 and departmental code - 2299.

5. A three-page (750 words), double-spaced, typewritten essay on the subject of the student's educational, career, and life goals. Written skills will be a factor in the acceptance process.

6. Applicants are evaluated on their prior work and community service experiences.

7. Three letters of reference sent directly to the Office of Admissions; Mercer University School of Medicine; 1550 College Street; Macon, GA 31207-0001, one each from a (1) College Professor, (2) Pastor, Therapist or Employer, and (3) Friend.

8. An interview with the Program Faculty is required prior to acceptance and enrollment.

Note: Admission into the MFT program does not guarantee completion of the Master of Family Therapy degree program. This program is a professional program in which suitability and competency in the practice of marital and family therapy is continually assessed primarily through the clinical practica. It is the responsibility of the clinical faculty along with the Program Director to assess each student’s progress in the clinical practica. If in the judgment of the clinical faculty a student is not making satisfactory progress, one of the following or a combination of the following options may be required:

1. Additional clinical practica.
2. Personal family psychotherapy.
3. Counseling out of the program into a more suitable course of study.
4. Expulsion from the program.

Students selecting the Master of Family Therapy must undergo a faculty
review and assessment after completing twelve semester hours of academic work and/or one semester of clinical practicum. This review by the Program Director and the clinical faculty is for the purpose of assessing the student's clinical work and suitability for continuation in the Master of Family Therapy.

Application Process - Post Masters Certificate Programs

Applicants to the Post Masters Certificate in Marriage and Family Therapy Program must hold a Master's or a Doctor's degree in a helping profession such as psychology, medicine, counseling, social work, or a related discipline.

Applicants to the Post Masters Certificate Programs in Medical Family Therapy or Pediatric Family Therapy must hold a minimum of a master's degree in Marriage and Family Therapy, Social Work, Counseling/Counseling Psychology, a Master of Divinity degree with a clinical emphasis, or Doctor of Medicine. Individuals with a minimum of a master's degree in an allied mental health area other than MFT may be required to take additional master's level coursework from the existing MFT curriculum prior to beginning either program. Applicants who have not completed graduate level coursework in child development, family systems theory, and/or family therapy theories will need to successfully complete MFST 615 Family Systems I, MFST 655 Child Development and MFST 630 Methods in Family Therapy or the equivalent of each.

1. A completed MUSM Graduate Application form and a non-refundable fee of $40.
2. Official transcripts, sent directly from the college or university, for all college-level work completed to earn a baccalaureate degree and a master degree from an accredited college or university.
3. Official transcripts, sent directly from the college or university, for any work completed in addition to the undergraduate and graduate degrees.
4. An interview with the Program Faculty is required prior to acceptance and enrollment.

FINANCIAL INFORMATION


Tuition per semester hour: $583
Books/Equipment: Average expenses per course - $100

Tuition payments are due at the time of registration for each semester at MUSM. It is specifically understood that students will pay, in full, all charges assumed at registration.

Special Fees

Auditing Fees ........................................One-half of regular tuition

Special Assessments

Application Fee ..............................................$40 per request
Late Registration Fees .....................................$25 per semester
Returned Check Fee ......................................$25 per check
Late Payment Fee ...........5% of unpaid tuition after financial aid is deducted

Note: All special assessments are non-refundable.
Financial Assistance Information

Consult "The Financial Aid Maze" publication issued from The MUSM Office of Financial Aid.

Refunds

A student who FORMALLY RESIGNS from school prior to the last day of the drop/add period for any term of enrollment will be entitled to a 100% credit of tuition and fees charged for the current term. A student who FORMALLY RESIGNS from school after this date may be entitled to a prorated credit of the tuition and fee charges if certain criteria are met as described in this policy. The criteria for the Mercer Institutional Refund Policy are based upon federal mandates established by the Federal Return Policy which took effect at all Mercer campuses on August 15, 2000, replacing all existing refund policies throughout the University. The Policy applies whether or not Title IV awards are involved.

Mercer University will maintain a fair and equitable refund policy by adherence to this Institutional Refund Policy in all programs, in all schools, and on all campuses. This policy is subject to change if there are future changes to the Federal Return Policy or other Federal, State, Accrediting Agency, or Institutional policies with which it may conflict.

To FORMALLY RESIGN a student must drop or withdraw from all courses for the term by (1) personally completing and returning an official Term Withdrawal form obtained from their school's Registrar's Office, or (2) phoning their school's Registrar's Office and having an official Term Withdrawal form completed for them. The completed form must be received in the registrar’s office before the resignation process can be finalized. Resignation calculations will be based upon the date the Term Withdrawal form is received in the registrar's office. When the University has assessed charges in error, a full credit and/or refund of the charges will be made.

Financial Aid awards and disbursements for students who formally resign from the University after the last day of drop/add each term will be returned to the original source of funds in accordance with the Federal Return Policy. Any exception to the Refund Policy will require a written appeal by the student to the Refund Appeals Committee. Students should submit letters of appeal to Mercer One.

Decisions of the Refund Appeals committee are final.

If a student ceases attendance without notifying the University, a Federal statutory provision allows the University to use the midpoint of the payment period as the withdrawal date for calculating the Federal Return Policy. Otherwise, the University may use the student's last day of academically related activity if it can document the student's attendance. A calculation for the Return of Federal funds will be completed within 30 days of the school's determination that a student has ceased attendance without proper notification. Any financial aid disbursements which must be returned to their original source of funding will then become immediately due and payable by the student to the University and in some cases to the U.S. Department of Education.

The following resignation calculation will be used to determine the prorated amount of tuition and fees to be credited to the student's account and the amount of financial aid to be returned to their source programs:

\[
\frac{\text{The total number of calendars days}^* \text{ attended by the student}}{\text{The total number of calendar days}^* \text{ in the term of enrollment}} \times \text{Be retained}
\]
The total number of calendar days includes all days beginning with the first day of classes and ending with the last day of exams for the student's official program of study, excluding scheduled breaks of at least five consecutive days or more.

**When the percentage to be retained is equal to or greater than 60% NO tuition credit or refund of Title IV funds is required by the Mercer Institutional Refund Policy or the Federal Return Policy.**

Total tuition and fees for the term of enrollment \( X \) \((100 - \text{percentage to be retained})\) = Total tuition and fees to be credited to the student's account

Total amount of Title IV Financial Aid disbursed \( X \) \((100 - \text{percentage to be retained})\) = Total Title IV Financial Aid to be returned**

** In most cases the University is required to return only the portion of Federal Financial Aid that has been paid toward institutional charges. Any funds refunded to the student prior to resignation could be repayable by the student to the University or the U.S. Dept of Education. Should the University be required to return federal financial aid funds in excess of those retained for tuition and fees then the student would be immediately responsible for payment back to the University for the full amount of this excess refund.

Total amount to be returned to Non-Title IV funds = Total tuition and fees to be credited to the student's account less the total Title IV Financial Aid to be returned.

Federal Title IV financial aid funds must be returned in the following order:

1. Loans
   –Federal Unsubsidized
   –Federal Subsidized
   –Federal Perkins
   –Federal PLUS

2. Grants (& Other):
   –Federal Pell
   –FSEOG
   –Other Title IV (excluding College Work Study earnings).

**Non-Title IV financial aid funds will be returned in the following order:**

1. Mercer Institutionally funded Loans
   Mercer Institutionally funded Grants/Scholarships

2. Mercer Endowment funded Loans
   Mercer Endowment funded Grants/Scholarships

3. State and Other Loans
   State and Other Grants/Scholarships

4. Student/Parent Payments

**Sample Refund Calculations:**

<table>
<thead>
<tr>
<th>First Day of Class</th>
<th>= August 22nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last Day of Exams</td>
<td>= December 18th</td>
</tr>
</tbody>
</table>
Holidays = Labor Day, September 3rd  
Fall Break, October 8th and 9th  
Thanksgiving Break, November 21st - 23rd  

Number of calendar days between August 22 and December 18 = 119 days  
Number of scheduled breaks lasting five consecutive calendar days or longer = 5 days  
Total calendar days in this enrollment period = 114 days  

Resignation Scenario #1: A graduate student formally resigns in the Registrar's Office on September 17th  
Typical Charges: $1,959 Graduate Tuition  
Financial Aid Disbursed: $3,000 Federal Subsidized Direct Loan of which $1,041 has been refunded to the student  

Calculation: Number of Calendar Days between August 22 (First Day of Class) and September 17 (the date of Formal Resignation) = 27 days  
Percentage of charges to be retained* = 27 days = .2368 or 23.7% / 114 days  

*Note this is the same calculation used for the percentage of Title IV Aid Earned.  
Amount of Tuition earned by the Institution = $1,959 x 23.7% = $464.28  
Amount of Tuition to be Credited to the Student's Account = $1,959 - $464.28 = $1,494.72  
Amount of Title IV funds earned by Student = $3,000 x 23.7% = $711  
Amount of Title IV fund to be Returned to the Direct Loan Program = $3,000 - $711.00 = $2,289  
Amount of Title IV funds to be Returned by the University = $1,959 x (100-23.7%) = $1,494.72  
Amount of Title IV funds to be Returned by the Student = *Since the student received a Direct Loan the student will be responsible for the repayment of the amount borrowed less the amount Returned by the University in accordance with the promissory note signed by the student.  

Snapshot of Student Account:  
Tuition $1,959.00  
Direct Loan 3,000.00  
Refund to Student 1,041.00  
Account Balance -0- At time of resignation  
Tuition Credit (1,494.72)  
University Refund to Direct Loan Program 1,494.72  
Account Balance -0- After resignation  

Resignation Scenario #2: An undergraduate student formally resigns in the Registrar's Office on September 17th and turns in their dorm room keys and key card the same day.
Typical Charges: Financial Aid Disbursed:

- Federal Subsidized Direct Loan: $5,000
- FSEOG Award: $2,000
- Total Title IV Financial Aid: $9,145
- Dorm Room: $1,750
- Institutional Scholarship: $3,000
- Meal Plan: $1,480
- Outside Scholarship: $2,000
- Total Charge: $12,373
- Total Financial Aid Disbursed: $12,000

**Calculation:** Based on the same calculations used in Scenario #1 = 23.7%

- Amount of Charges earned by the Institution = 12,375 x 23.7% = $2,932.87
- Amount of Charges to be Credited to the Student's Account = 12,375 - 2,932.87 = $9,442.13
- Amount of Title IV funds earned by Student = 7,000 x 23.7% = $1,659.00
- Amount of Title IV funds to be Returned to the Title IV Programs = 7,000 - 1,659 = $5,341
- Amount of Title IV funds to be Returned by the University = the lesser of $5,341 or $12,375 x (100-23.7%) = $9,442.12

The University will refund $5,341 as follows:
- $5,000 to Federal Subsidized Direct Loan
- $341 to FSEOG Award

Amount of Title IV funds to be Returned by the Student = *Since the University returned the full amount due to the Title IV programs then there are no funds to be returned to the Title IV programs by the student.

*************************************************

Please be aware that pre-enrollment deposits will be forfeited should the student fail to enroll in the semester for which the deposit was intended.

**Program Administration Policies**

**Academic Advising**

The Program Director will assign a faculty advisor to each student accepted into the program. The advisor will assist students in selecting courses, devising strategies to meet career objectives, and recommending resolutions to academic problems. The advisor is to meet with the student to establish a course of action outlining the course sequence for the student to follow which best fits with the student's capabilities and circumstances. The advisee outline is to be stored in the student's academic file in the MFT/MFS Administrative Assistant's office. The advisor is to be available to the student to counsel as needed concerning the student's progress through the Program.

**Academic Performance Standards**

A student seeking the Master of Family Therapy or the Master of Family Services degree must complete all program requirements within six years from the start of the program in MUSM. A student seeking one of the Post Masters Certificate Programs must complete all program requirements within three years from the start of the program in MUSM. The time requirements begin when a stu-
dent formally enrolls in his or her first graduate course in MUSM. A graduate stu-
dent not enrolled in a course(s) for two consecutive semesters will be withdrawn
from the graduate program unless he or she has received prior approval for a
leave(s) of absence from the Program Director.

The cumulative grade point average of 3.0 is one of the requirements for grad-
uation from the MFT/MFS Program. In addition to meeting the 3.0 requirements
for graduation, Masters students may have no more than two grades of "C" and/or
"C+" in the entire graduate work and Post Masters students may have no more
than one grade of "C" or "C+" in the entire graduate work. Grades below a "C" do
not count toward a degree or certificate. Students not meeting the minimum aca-
demic standard will be placed on Academic Warning, Academic Probation, or
Academic Exclusion as defined below. A student may repeat only one course to
improve a letter grade of "C" or "C+".

Academic Warning:
Upon a Masters student receiving the first grade of "C" or "C+", the student
will be placed on Academic Warning.
Post Masters students are not eligible for Academic Warning status.

Academic Probation:
Upon a Masters student receiving the second grade of "C" or "C+", the stu-
dent will be placed on Academic Probation.
Upon a Post Masters student receiving the first grade of "C" or "C+", the stu-
dent will be placed on Academic Probation.

Academic Exclusion:
A Masters student will be permanently excluded from the program upon
receiving a third letter grade of "C" or "C+".
A Post Masters student will be permanently excluded from the program upon
receiving a second letter grade of "C" or "C+".
The academic record of these students will reflect Academic Exclusion unless
the student is able to avail him/herself of the one opportunity provided to repeat
one course in which he/she received a letter grade of "C" or "C+". If a student is
successful in improving the letter grade in the repeated course to a "B" or higher,
then the student will be placed back on Academic Probation. Should a letter
grade of "C+" or lower be awarded in any course thereafter, the student will be
permanently excluded from the program.
Masters and Post Masters students receiving a letter grade of "D" or "F" will
be permanently excluded from the program. Students are not permitted the
retake option in a course in which they earn a letter grade of "D" or "F".
Should a student file a Grade Grievance and be successful in improving any
grade award, the rules for Academic Warning, Academic Probation, and
Academic Exclusion as defined above will apply.

Academic Year
The academic year for all MFT/MFS Program begins with the fall semester (16
weeks) and spring semester (16 weeks) and ends with summer semester (11
weeks). Practicum will continue year round (50 weeks).
Attendance Policy

Students are expected to attend all classes each semester. Since classes meet only once per week, to miss one class is the equivalent of being out of school for a week. Additionally, in a clinical program all material is essential for the development of adequate patient care skills. However, should absences occur, the following provisions will be followed:

For each Absence: The student must submit an outline of the readings and class material for the class missed. This should be submitted to the Instructor at the beginning of the next class attended.

2 Absences: In addition to the outline, the student must write a paper on the topic missed; the length and content of the paper must be approved by the Instructor.

3 Absences: In addition to the outline and the paper, the student will experience an automatic grade reduction by one letter grade.

4 Absences: In addition to the outline and the paper, the student will not be awarded a Grade of higher than a "C". If the student's earned grade is a "C", this will become a "D" as stipulated for an automatic grade reduction by one letter grade for 3 Absences.

5 Absences: The student will automatically be awarded a Grade of "F".

Course Cancellation

The School of Medicine reserves the right to cancel a scheduled course due to unforeseen circumstances or if an insufficient number of students enroll for the course. Faculty advisors will assist students in the selection of alternative courses when a course is cancelled.

Course Changes

Adding and/or dropping courses must be accomplished on or before the dates specified in the academic calendar. Required forms must be obtained and processed in the Registrar's Office. Courses dropped during this period will not appear on the student's grade report or permanent record.

Course Numbering System

The numbering system for graduate course work in the MFT/MFS program is 601-797. Each course appears in the Handbook with the prefix MFST or MFSS.

Course Syllabi

MFT/MFS students are provided a course syllabus at the beginning of each course. The syllabus is to outline the required texts, expectations of the course, required papers and projects, exams and all expectations of the course, including attendance and grading. The professor(s) of the course will assign the student a grade in the course based upon the student's performance as outlined in the syllabus.
Course Withdrawals

A student may withdraw from a course with a grade of "W" after the course change period and on or before the last day for withdrawals as shown in the current academic calendar. Withdrawals are not used when computing grade point averages. Students should also read the Financial Information section within MUSM's website regarding possible loss of financial aid. To make an official withdrawal from a course, a student must obtain and submit a completed Course Withdrawal Form to the MUSM Registrar. If the student elects to discontinue class attendance and academic performance and does not complete an official Course Withdrawal Form within the time limits described, a grade of "F" will be recorded on the student's official record.

Changes in Program or Major

If a student enters under one MFT/MFS Program and then decides to change to another MFT/MFS program, he/she must meet the following requirements:

1. Have a GPA of at least 3.0 in all courses taken in the Program at that time.
2. Have demonstrated a record of academic, professional, and personal integrity.
3. Have completed all pre-requisite requirements of the Program being sought admission
4. Complete a comprehensive interview with the faculty.

Comprehensive Exam

When a student has completed all required academic coursework in the MFT/MFS Program, he/she must request to take the Comprehensive Exam. This Exam consists of approximately 100 multiple-choice questions and is modeled after the Georgia Composite Board MFT Licensure Exam. Ten questions are presented from the following areas:

- Introduction to Family Studies
- Family Systems I & II
- Family Therapy with Major Psychopathology
- Marriage & Family Therapy Methods
- Family Treatment of Addiction
- Human Sexual Dysfunction
- Child Development
- Adolescent Development
- Adult Development
- Ethics & Professional Practice
- Family Methodology Research

MFS students take the same exam without the sections involving Family Therapy with Major Psychopathology and Marriage & Family Therapy Methods, and including two sections involving Services Management I and II.

The Exam is available three times per year – in May, August, and in December. Students must achieve a grade of 65 or higher to successfully pass the Exam. Students not receiving a passing grade on the first attempt will be permitted to retake the exam. Students who are unable to successfully pass the exam on the second attempt will be required to engage in additional study in the areas experiencing the most deficiencies and will then be required to take an oral exam.
Post Masters Certificate students are not required to take the comprehensive exam.

**Credit Units**

The MFT/MFS Program at MUSM uses the semester hour as the basic unit of credit. The individual course descriptions indicate the number of credit hours awarded for each course.

**Credit, Extra-Collegiate Learning Programs**

No credit will be awarded for courses taken by correspondence or through other forms of life experiences. Courses taken in other graduate programs in which a degree was earned cannot be used for credit in the MFT/MFS Program.

**Credit, Graduate Transfer**

Because of the specialized nature of the MFT/MFS Program offered through MUSM, the amount of graduate course credits awarded by transfer will be evaluated by the Program Director on a case-by-case basis. The Program Director will make the final determination on the type and amount of transfer credits to be accepted. The maximum number of transfer credits for Masters students will be limited to six semester hours and for Post Masters students will be limited to three semester hours. Such transfer credits are further restricted to courses in which a grade of "B" or better was achieved. Transfer work will be calculated as part of the stated time limitations for the completion of the programs.

**Credit, Transient Status Mercer Student**

Students who wish to earn transient credit from another college while currently enrolled in a MUSM graduate program must have prior approval from the Program Director for such credit to be accepted as part of the degree program. The maximum number of credits from transient and/or transfer course work that may be accepted for Masters students is a total of six semester hours and for Post Masters students is a total of three semester hours. Such credits are further restricted to courses in which a grade of "B" or better was achieved. Transient work will be calculated as part of the stated time limitations for the completion of the programs.

**Credit, Transient Status non-Mercer Student**

Students enrolled in another institution and/or individuals not enrolled in a degree seeking program who wish to obtain graduate credit for a course taken at Mercer University must complete the MUSM graduate program application, pay the appropriate application fee, and submit a letter setting forth the reasons for requesting the transient status. Transient status requests will be evaluated by the Program Director on a case-by-case basis. Transcripts and admission test scores are waived.

**Curriculum Changes**

From time to time the Program may elect to change the curriculums for the MFT/MFS Programs.

A student must fulfill the educational requirements in effect during the academic year in which that student entered the program at MUSM unless he or she is not enrolled for two or more consecutive semesters. If a student is not enrolled
for two or more semesters including summer, he or she must fulfill the education requirements in effect at the time he or she re-enrolls.

**Enrollment Status**

Full-time enrollment will be considered six (6) semester hours; half time will be considered three (3) semester hours. A graduate student may not register for more than nine (9) credit hours per semester unless the overload has been approved by the Program Director.

**Evaluation of Courses**

Each semester students are asked to complete a Course Evaluation form in each course. The process for conducting course evaluations is as follows:

1. Faculty bring the course evaluation forms to the last class of the semester before the final exam.
2. At the end of the class session, the Faculty provides the evaluation forms to the students for completion and leaves the classroom.
3. Students anonymously complete the evaluation forms and do not indicate any identifying data on the forms.
4. A student is selected to collect the course evaluation forms, reinsert them into the brown envelope provided, seal the envelope, and deliver it to the MFT/MFS Administrative Assistant.
5. The MFT/MFS Administrative Assistant delivers the sealed envelope to the Office of Student Evaluation for scoring.
6. Results of the evaluations are provided to the Chair of the Department of Psychiatry and Program Director.
7. The Director reviews the Evaluation scores with the faculty to provide feedback and guidance concerning the course content, teaching style and success in the classroom.

**Evaluation of MFT Practicum Experience**

Each semester a MFT student is engaged in practicum, he/she is required to complete two Evaluations of Supervision Sessions to provide feedback to the Practicum Supervisor. The practicum student is required to complete an Agency Evaluation Form each semester for each site the student is engaged in the practicum experience. See MFT Practicum Experience in the student handbook for additional details concerning the Masters and Post Masters Certificate in Marriage & Family Therapy Practicum Experience.

**Evaluation of Program**

Following the successful completion of all academic and clinical requirements and successfully passing the Comprehensive Exam, each MFT/MFS student is asked to complete an Exit Interview. This is accomplished by either the student writing out his/her responses to the questions or by a faculty member calling the student and documenting the student's responses.

**Grading System**

Letter grades are reported and recorded for all courses in which a student is enrolled after the end of the published course change period. The grading of
"Satisfactory" or "Unsatisfactory" are not options for MFT/MFS graduate students. Letter grades used in the MFT/MFS Program are as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Interpretation</th>
<th>Quality Points per Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>4.00</td>
</tr>
<tr>
<td>B+</td>
<td>Good</td>
<td>3.50</td>
</tr>
<tr>
<td>B</td>
<td>Average</td>
<td>3.00</td>
</tr>
<tr>
<td>C+</td>
<td>Below Average</td>
<td>2.50</td>
</tr>
<tr>
<td>C</td>
<td>Below Average</td>
<td>2.00</td>
</tr>
<tr>
<td>D</td>
<td>Poor</td>
<td>1.00</td>
</tr>
<tr>
<td>F</td>
<td>Failure</td>
<td>0.00</td>
</tr>
<tr>
<td>ABX</td>
<td>Absence from Final Exam Excused</td>
<td></td>
</tr>
<tr>
<td>AU</td>
<td>Audit</td>
<td></td>
</tr>
<tr>
<td>IC</td>
<td>Incomplete</td>
<td></td>
</tr>
<tr>
<td>IP</td>
<td>In Progress</td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>Withdrawal</td>
<td></td>
</tr>
<tr>
<td>Z</td>
<td>Grade Not Reported</td>
<td></td>
</tr>
</tbody>
</table>

The grade of "IP" is awarded only in graduate practicum or research project courses, which may extend beyond the end of a semester. A student is expected to finish "In Progress" work based on the timetable established by the professor issuing the "IP" grade, and at least by the last date to withdraw deadline of the following semester after the "IP" course work. If the student does not complete the required work within the time specified, the grade automatically converts to an "F".

The grade of "ABX" denotes that the student was absent from the examination because of illness or another valid and compelling reason deemed satisfactory to the professor. A makeup exam must be completed by the last date to withdraw deadline of the following semester after the "ABX" course work. If the student does not complete the required work within the time specified, the grade automatically converts to an "F".

The grade of "IC" indicates that a relatively small part of the semester's course work remains incomplete because of sickness or reasons satisfactory to the professor. The work must be completed by the last date to withdraw deadline of the following semester after the "IC" course work. If the student does not complete the required work within the time specified, the grade automatically converts to an "F".

The grade of "W" (Withdrawal) indicates that a student officially withdrew from the course on or before the last day for withdrawals as designated in the current Academic Calendar. Withdrawals are not used when computing grade point averages. Students should also read the Financial Information section regarding possible loss of financial aid. To make an official withdrawal from a course, a student must obtain and submit a completed Course Withdrawal Form to the MUSM Registrar. If the student elects to discontinue class attendance and academic performance and does not complete an official Course Withdrawal Form within the time limits described, a grade of "F" (Failure) will be recorded on the student's official record. A grade of "W" may not be awarded if a student does not complete the official Course Withdrawal Form on or before the date designated for each semester in the current Academic Calendar.
Graduation Audits

Upon a student successfully completing all academic and clinical requirements, including successfully passing the Comprehensive Exam and any clinical presentations required, a student is ready to graduate from the Program. A Graduation Audit Report is prepared by the MFT/MFS Program Coordinator and reviewed by the Program Director. Once the Audit is complete and all academic and clinical information have been verified, the form is signed by the Program Director and forwarded to the Registrar. The Registrar’s Office orders the student’s diploma and the student is included as a Graduate in the Graduation Ceremony held in the spring each year.

A student may be permitted to walk in the Spring Graduation Ceremony prior to completing all academic and clinical requirements or taking the Comprehensive Exam and making any clinical presentations required provided the student demonstrates the ability to successfully complete all remaining Program requirements by the end of the following summer semester in which the student enrolls. In such event, the student will not be awarded the actual diploma until all Program requirements have been satisfied.

Graduation Degree Requirements – Master of Family Therapy

– Post Masters Certificate in Marriage & Family Therapy

1. Successful completion of all academic course work with a minimum of 3.0 GPA. The MFT student may have no more than one letter grade of "C+" or "C". A letter grade of "D" or "F" may not be included in course work used for the MFT Program.

2. Successful completion of a one-year practicum experience (nine semester hours) in which the student must accrue 500 hours of direct client contact. A student must have taken additional practice as needed in order to accrue the 500-hour client contact requirement, half of which must be with couples and/or families.

3. Accrual of a minimum of 100 hours of clinical supervision of which:
   - A minimum of 50 hours of group supervision and a minimum of 50 hours of individual supervision.
   - A minimum of 50 percent of the required total supervision will be conducted by direct observation (audio/video tape or live supervision)

4. Submission of satisfactory evaluations from clinical supervisors and practicum site administrators in each practicum.

5. Submission of accurate records of accrued client contact hours to the Clinical Director of the MFT Program. A minimum of 500 hours is required, half of which must be with couples and/or families.

6. MFT students must achieve a passing score on the comprehensive exam. Post Masters Certificate students are not required to take the comprehensive exam.

Graduation Degree Requirements – Master of Family Services

1. Successful completion of all academic course work with a minimum of 3.0 GPA. The student may have no more than two letter grades of "C+" or "C".
A letter grade of "D" or "F" may not be included in course work used for the MFS Program.

2. Successful completion of a 6 credit hour practicum in which the student must accrue 480 hours of administrative experience in an agency setting.

3. Achievement of a passing score on the MFS comprehensive exam.

Graduation Degree Requirements – Post Masters Certificate in Medical Family Therapy – Post Masters Certificate in Pediatric Family Therapy

1. Successful completion of all academic course work with a minimum of 3.0 GPA. The student may have no more than one letter grade of "C+" or "C". A letter grade of "D" or "F" may not be included in course work used for these Programs.

2. The prior clinical experience, if any, of all students will be evaluated at the time the student starts his/her practicum experience to determine the total amount of clinical practicum to be required, which will not exceed a total of twelve semester hours (typically 3 consecutive semesters).
   a. Students with approved prior clinical experience will be required to successfully complete one semester of practicum (four semester hours) in which the student must accrue 150 hours of direct client contact. If 150 hours are not accrued in one semester, the student will be required to take additional practicum as needed in order to accrue the 150-hour client contact requirement.
   b. As determined in the review of the student's prior clinical experience, or as indicated in a student's initial semester of practicum, a student may be determined to need additional clinical experience and will be required to enroll for more than the minimum one semester of practicum, for up to two additional semesters of practicum (twelve semester hours total).
   c. If a student is required to take more than the one semester minimum of practicum, the total number of client contact hours must average at least 150 hours for each semester the student is enrolled in the practicum experience.

3. Accrual of a minimum of 40 hours of clinical supervision for each semester the student is enrolled in practicum, of which:
   a. A minimum of 20 hours of group supervision and a minimum of 20 hours of individual supervision.
   b. A minimum of 50 percent of the required total supervision will be conducted by direct observation (audio/video tape or live supervision).

4. Submission of satisfactory evaluations from clinical supervisors and practicum site administrators in each practicum.

5. Submission of accurate records of accrued client contact hours to the Clinical Director of the MFT Program.

6. Successful completion of the clinical presentation before a faculty panel. Students must score the equivalent of seven on a ten point scale in order to pass.
Leave of Absence

A student may be granted a Leave of Absence for a variety of reasons. An Approved Leave (s) of Absence (LOA) as defined by the Department of Education does not exceed 180 days during a twelve-month period. The 180 days may be taken at one time or may cover several LOA's during the 12-month period.

A student who takes an Approved Leave of Absence is considered not to have withdrawn from MUSM. A Leave of Absence is approved if:

1. The student has made a written request for the Leave(s) of Absence.
2. The Leave(s) of Absence does not exceed 180 days.
3. MUSM does not charge the student for the Leave(s) of Absence.

If a student's Leave(s) of Absence is not approved or the student fails to return to MUSM at the end of an Approved Leave(s) of Absence, the student is considered to have withdrawn from MUSM, and the refund requirements apply.

These Leave of Absence requirements also affect a student's in-school status for the purposes of deferring Student Financial Assistance (SFA) Loans. A student on an Approved Leave of Absence is considered to be enrolled at MUSM and will be eligible for an in-school deferment for his/her SFA Loans. A student who takes an unapproved Leave of Absence or fails to return to MUSM at the end of an Approved Leave of Absence is no longer enrolled at MUSM and is not eligible for in-school deferment of his/her loans.

Privileges granted during an Approved Leave of Absence include:

1. The student may use the library and other learning resources.
2. A student on Leave of Absence will remain on the distribution list for any student updates, class newsletters, and other communications.

Practicum Experience – Master of Family Therapy – Post Masters Certificate in Marriage & Family Therapy

MFT/Certificate students spend a minimum of three consecutive semesters (approximately 50 weeks) in an appropriate agency setting doing marriage and family therapy under supervision. The Practicum may begin during the first or second year of training, depending upon the clinical experience of the student, continues for one full year and ends when the student has accumulated 500 hours of client contact. Therapy students average 20 hours a week in the Practicum placement providing an average of 10 to 12 hours of direct client contact as therapist or co-therapist and participating in other activities deemed appropriate by the agency. Students are also required to see clients at the program's Family Therapy Center to facilitate live supervision by Faculty Approved Supervisors and other Practicum students.

In the beginning of placement, inexperienced therapy students may be able to see only three or four clients a week for whom they function as co-therapist with an experienced agency therapist. With experience, and by the second semester of practicum, the student will be the primary therapist for an average caseload of 10 clients per week. This will enable the student to provide a total of 500 hours of direct service to clients in the course of his or her Practicum.

While s/he is being trained as a marriage and family therapist, emphasis is placed on working with couples and families present in sessions. However, the student has the skills to work with individuals (from a systemic relational perspec-
tive) as well. It should be noted, however, that his/her caseload should consist mainly of couple and family cases, with individual clients constituting less than 50% of the caseload.

The Faculty Approved Supervisor will provide a minimum of 100 hours of clinical supervision, including a minimum of 50 hours of group supervision and a minimum of 50 hours of individual supervision. At least 50% of supervision hours must be supervision by direct observation, which includes live supervision, videotape and audiotape supervision. (No more than 20 hours of supervision by audiotape may be counted toward the 50 hours minimum of supervision by direct observation). The 100 hours of clinical supervision occur at the Program’s Family Therapy Center, during the day on Wednesdays throughout the entire practicum experience. Individual Supervision occurs for 1-½ hours every Wednesday and Group Supervision occurs every other week for 2 ½ hours. Students in Practicum are required to engage in clinical supervision every Wednesday as indicated throughout their practicum experience.

See MFT Practicum Experience in the student handbook for additional details concerning the Master and Post Masters Certificate in Marriage & Family Therapy Practicum Experience.

**Practicum Experience – Master of Family Services**

MFS students spend a minimum of one semester in an appropriate agency setting to enable students to develop advanced problem solving skills in a social service agency which deals primarily with family related issues and problems. Theoretical explanations and justification of intervention processes and outcomes will be submitted. Students will be expected to demonstrate self directed learning skills in addition to interpersonal skills and personal awareness competencies. The practicum consists of 30 hours of agency contact per week for sixteen weeks.

**Practicum Experience – Post Masters Certificate in Medical Family Therapy**

Students enrolled in the Medical Family Therapy Certificate Program will spend a minimum of one semester in an appropriate agency setting doing marriage and family therapy under supervision. The Practicum may begin during the first or second semester of training, depending upon the clinical experience of the student, and will continue until the student has accumulated 150 hours of client contact. During this practicum experience the student will see a majority of individuals, couples and families in which at least one member has an acute medical situation or chronic illness. Supervision will focus on systemic/relational dynamics of the individuals, couples and families and how these dynamics are influenced and impacted by the presence of medical problems. Efforts will also be directed in delineating the impact and influence of the medical health care team and the medical environment upon individual and family functioning.

**Practicum Experience – Post Masters Certificate in Pediatric Family Therapy**

Students enrolled in the Pediatric Family Therapy Certificate Program will spend a minimum of one semester in an appropriate agency setting doing marriage and family therapy under supervision. The Practicum may begin during the first or second semester of training, depending upon the clinical experience of the student, and will continue until the student has accumulated 150 hours of client contact.
contact. During this practicum experience the student will see a majority of individuals, couples and families who have a child or adolescent with an acute or chronic medical situation. Supervision will focus on systemic/relational dynamics of the individuals, couples and families who have a child and/or adolescent who is under going medical treatment. The impact of the medical situation on the growth and development of the child/adolescent and the corresponding influence and care giving activities on individual, couple and family relationships are examined. Efforts will also be directed in delineating the impact and influence of the medical health care team and the medical environment upon individual, couple and family functioning.

Registration

All students are required to register for courses at the time prescribed in the MUSM calendar or in compliance with official notices issued by the Office of the Registrar at MUSM. Official course enrollment, which includes the completion of satisfactory arrangement for financial payments, is required for admission to classes.

Completing and submitting a registration form in electronic or paper format commits a student for the courses requested and the corresponding fees and charges incurred. A student, who early-registers or registers during an official registration period and is unable to attend classes, must notify the Registrar in writing prior to the first day of class. A student who registers after the official registration period is required to pay a $25.00 late fee.

Right of Appeals

Students may appeal faculty or program decisions regarding evaluations, grades, or decisions on the fulfillment of program and certification requirements. Please refer to the Student's Right of Appeals Grievance Procedures in the Student Handbook for specifics.

Surveys of Alumni

The Program hosts an Alumni Day each spring. Students are invited to attend the Armour Family Lecture Series and a luncheon or dinner hosted in their honor. The purpose of the two events is to provide an educational, networking opportunity for students, alumni, and marriage and family professionals. Alumni are also asked to complete a survey each year that requests information on professional employment status, credentialing status, preparedness to function in the workplace and student satisfaction with their educational experience in the MFT/MFS Program.

COURSE DESCRIPTIONS

MFST 600. Introduction to Family Studies (3 hours)
This course introduces the field of family studies and provides inquiry into broader aspects of family, the psychosocial interior of the family, sociology of the family, healthy family functioning, ethnicity and family life and the changing family life cycle including divorce and remarriage as a family life stage. Relationships between macro and micro systems is emphasized.

MFST 615. Family Systems I (3 hours)
This course is an in-depth examination of several systemic approaches to mar-
riage and the family. Beginning with the history of the field, students study the theory, therapeutic interventions, and strategies of early approaches to marriage and the family: communications, psychodynamic (including Bowenian, contextual, and object relations), structural, experimental and behavioral.

MFST 616. Family Systems II (3 hours)
Prerequisite: MFST 615.
This course provides an in-depth study of the newer systems approaches to marriage and the family. Following an examination of the post modern context of family systems, emerging models are analyzed according to theory, strategies and case examples.

MFST 620. Family Therapy with Major Psychopathology (3 hours)
Prerequisites: MFST 600, 615 and 616.
A detailed examination of family systems psychopathology which contributes to major psychiatric disorders as defined in the Diagnostic and Statistics Manual of Mental Disorders is provided. The focus of the course is on family theory as it pertains to the functions of assessment, diagnosis and treatment in family therapy along with a brief coverage of psychopharmacology and the genetics of major psychopathology.

MFST 630. Marriage and Family Therapy Methods (3 hours)
Prerequisites: MFST 600, 615, 616 and MFST 620. Students must also be currently enrolled in MFST 696.
A general systems approach to family therapy treatment which covers assessment, diagnosis and treatment procedures using the following theoretical models: psychodynamic, communications, structural/strategic, experiential, intergenerational, behavioral, etc.

MFST 640. Family Treatment of Addiction (3 hours)
Prerequisites: MFST 615, and 616.
This course examines recent theoretical and research materials related to the conceptualization, understanding, assessment and treatment of substance abuse and addictions from a family systems theoretical perspective.

MFST 650. Human Sexual Dysfunction (3 hours)
Prerequisites: MFST 615, and 616.
This course addresses sexual functioning in relationships. An integration of individual, sexual, and marital therapies will be utilized toward the goal of enhancing intimacy in relationships. This integration includes reliance upon behavioral, object relations, and bio-psychosocial theories into an integrative systemic theoretical framework.

MFST 655. Child Development (3 hours)
This course focuses on the psychosexual and psychosocial development of children and the method in which these theories were devised. Works from original authors are utilized in the course. The relevancy of these historical foundational theories is examined from a family systems theoretical perspective.

MFST 656. Adolescent Development (3 hours)
This course offers an analysis of the developmental changes which take place between the ages of 10 and 20. Topics covered include physical maturation, cognitive development, personality development, and social development. Special consideration is given to the unique problems associated with this period.
MFST 657. Adult Development (3 hours)
This course covers the adult span of development. Particular focus is placed on the motif of stability vs. change in the biological, social, cognitive, emotional, and existential factors across the three stages of adult development. These developments are interfaced with family life-cycle developmental stages and tasks with particular attention to the task of differentiation from one’s family of origin. Application is directed to the person and family of the therapist as well as to the clients with whom the therapist works.

MFST 665. Gender Development (3 hours)
This course explores issues of gender from the point of view of both female and male writers and theorists. It examines the nature of archetypal representation of the feminine and the masculine as well as the nature of stereotypes associated with each. The course encourages students to examine the cultural stereotypes associated with each gender and seeks for the possibility of reconciliation of the masculine and the feminine archetypes in relationship to the self and others.

MFST 670. Ethics and Professional Practice (3 hours)
This is a seminar for the study of ethics and ethical problems that arise in the practice of marriage and family therapy. The purpose of the course is to examine the standards of acceptable practice and ethical problems that are unique to the practice of marriage and family therapy.

MFST 675. Family Research Methodology (3 hours)
This course is a study of the social research process with emphasis on research design, data collection, sampling, data analysis, and evaluation. Particular attention will be given to the family-related and marriage and family therapy-related applications of more generally used research techniques.

MFSS 680. Management of Family Services I (3 hours)
This course focuses on those networks of human service systems, both public and private, which aid healthy family functioning, remediate intra familial problems, alleviate external stress, provide needed material and emotional support, and provide substitute care when necessary. Emerging or persisting family problems will be identified and analyzed, and proposals will be developed for constructive responses to them.

MFSS 681. Management of Family Services II (3 hours)
Prerequisite: MFSS 680.
This course is a continuation of the subjects discussed in MFSS 680 and is designed to explore the organizational structure and management of family services programs. Particular attention will be given to supervision, interagency cooperation, grantsmanship, and conflict management.

MFSS 695. Practicum - Master of Family Services (6 hours)
Prerequisites: MFSS 680 and MFSS 681.
The practicum experience is designed to enable students to develop advanced problem solving skills in a social service agency or institutional setting which deals primarily with family-related issues and problems. Theoretical explanations and justification of intervention processes and outcomes will be submitted. Students will be expected to demonstrate self-directed learning skills in addition to interpersonal skills and personal awareness competencies. The practicum consists of an average of 30 hours of agency contact per week for sixteen weeks for
a total of 480 hours. If the requirement of 480 hours is not achieved in one semester, additional practica will be required.

MFST 696. Practicum - Master of Family Therapy (9 hours)
Prerequisite: Permission of the Clinical Director.
The practicum is designed for the integration and application of marriage and family theory to actual cases in the mental health field. Socialization of the student into the discipline and profession of marriage and family therapy is an ongoing process in the Practicum. The student will locate a practicum site in conjunction with the approval of the Program Director and/or the Clinical Director. The student must take a minimum of nine semester hours of full Practicum. In addition the student is required to have 500 client-contact hours in the Practicum with greater than 51% (255 hours) in relational therapy (i.e., couples and families). If the requirement of 500 client-contact hours with the relational therapy qualifier is not achieved in three semesters of full Practicum, additional practica will be required. Students who are in the Practicum are required to participate in both group and individual supervision with an assigned clinical faculty member of the program. A minimum of 50% of clinical supervision will be conducted by audio, video, or live supervision.

MFST 697. Special Topics in Marriage and Family (3 hours)
Prerequisite: Permission of the Program Director.
From time to time special topics as it relates to marriage and family studies will be offered as an elective. These offerings constitute the latest research in the field or some special area of inquiry that is not included in the regular curriculum. After completing the requirements in a required course, students have the opportunity to study that subject at an advanced level through independent study. Such study may occur only once and must be arranged between the student and faculty member and approved by the Program Director well in advance for a required course in the curriculum.

MFST 699. Supervision of Psychotherapy and Family Therapy (3 hours)
Prerequisites: Masters or Doctoral degree; a minimum of two supervisees.
This course is an overview of the supervision literature for mental health practitioners field who provide family therapy/psychotherapy supervision to mental health trainees.

MFST 720. Advanced Developmental Psychopathology (3 hours)
The course will draw a distinction between aspects of normal child development and factors related to more enduring types of childhood problems. The importance of understanding and working within a biopsychosocial framework to assess and treat mental illness will be explored via the study of transactional and ecological processes influencing development. Special emphasis will be placed on weaving systems theory or "thinking systems" into the fabric of the traditional mental illness assessment and treatment perspective which is individually-oriented.

MFST 730. Methods in Medical Family Therapy (3 hours)
This course will focus on the nature of the major methods used in the practice of medical family therapy. Students will be prepared for work within primary and/or tertiary care medical settings. A major theme throughout the course will be the importance of clinicians to create a collaborative network of care to fully meet the physical, social, emotional, and spiritual needs of patients and their families.
Students will learn how to apply the major family therapy/systemic theories to the care of persons living with physical illness, as well as to work within the systems of care involved in patients' treatment. Special emphasis will be placed on the nature of adjustment and grief as an indelible component of medical family therapy.

**MFST 731. Methods in Pediatric Family Therapy** (3 hours)

This course is designed to provide students with an in-depth analysis of the primary modalities employed by family therapists when working with a pediatric population. Students will explore various theoretical frameworks and learn a wide array of therapeutic interventions which will allow them to work flexibly and effectively with infants, children, adolescents, and their families. A developmental-systems framework will be emphasized to discuss broader theories, such as psychodynamic, structural-strategic, behavioral, and experiential approaches, as they apply to pediatric family therapy.

**MFST 755. Pediatric Medical Family Therapy** (3 hours)

This course is designed to prepare students for becoming an integral part of collaborative health care teams within pediatric medical care settings. Students will gain an advanced understanding of their roles as therapists working with acute and chronic illnesses such as asthma, diabetes, and cancer. The biological, cognitive, emotional, behavioral, and spiritual levels of individual and family functioning will be explored to promote a developmental-systems framework for working with the pediatric patient population. Special attention will be paid to the need for clinicians to maintain developmentally-appropriate expectations for understanding illness, death, and the grief process.

**MFST 757. Advanced Developmental Theory in Family Therapy** (3 hours)

Most families pursuing therapy and the therapists who see them are more in tune with the damage model of pathology and dysfunction than with the health and functionality of the resilient family. To emphasize the importance of the resiliency perspective, the course will elucidate normal family processes and identify factors related to the concomitant development of both the individual and the family. This will be done by injecting developmental theory into systemic thinking to achieve a model that views the individual as a system, which will enrich the view of the family system and its development, especially in regards to healthy functioning and resilience. Information from the fields of marriage and family therapy, child and family development, and developmental psychopathology will be covered.

**MFST 770. Chronic Illness, Death, & Dying** (3 hours)

This course will explore in-depth the biopsychosocial nature of the major acute and chronic illnesses MFTs are most likely to encounter when collaborating with medical systems, and the factors related most intensely to issues of death and dying. A major emphasis will be placed on students examining their own beliefs and experience about the processes of death and dying as a means of informing their therapeutic work with these issues, as well as their own needs related to working with people who are chronically and/or terminally ill. A developmental-systems perspective will be taken and the cognitive, emotional, biological, behavioral, and spiritual levels of the individual and family systems will provide a primary context to explore the course material.
MFST 796. Practicum in Medical Family Therapy  (4 hours)
This Practicum course is designed to provide the supervised clinical training experience for students enrolled in the Medical Family Therapy certificate program. Students will be placed in a primary Practicum placement site which provides primary or tertiary health care services. Students will also complete several rotations through secondary placement sites designed to expose them to a wide range of contexts in which collaborative health care and the interfacing of therapist and physician are integral components of patient care.

MFST 797. Practicum in Pediatric Family Therapy  (4 hours)
This Practicum course is designed to provide the supervised clinical training experience for students enrolled in the Pediatric Family Therapy certificate program. Students will be placed in a primary practicum placement site that serves children, adolescents, and their families. Students will also complete several rotations through secondary placement sites designed to expose them to a wide range of contexts in which the pediatric population is treated.

MASTER OF PUBLIC HEALTH PROGRAM

William F. Bina, III, Program Director/Professor
M. Marie Dent, A. Peter Eveland, and Ike S. Okosun, Associate Professors
Jerry Daniel, Rene Sanchez, Haomiao Jia, Michael Mathews, Assistant Professors
Frances Carter, Kathryn Martin, Mary W. Mathis, Leah Smith and Krista Swanson, Instructors

The Master of Public Health (MPH) degree program educates students to become community responsive health professionals who are trained to meet health industry needs in public health, business, managed care agencies, insurance companies, and government, with emphasis on rural and underserved areas. This goal will be achieved by providing students with expertise in defining and prioritizing community health problems; developing disease prevention, health promotion, and health education strategies; data management and interpretation; assessing and utilizing health information technologies; health services evaluation; and strategic health planning. The acquisition and application of these skills will enable students to strengthen the community health infrastructure by encouraging and promoting healthy public policy. Students must elect one of two assessment skill paths to strengthen their public health knowledge base: the technology-based health assessment skill path or the community-based assessment skill path.

CURRICULUM TRACKS

Technology-Based Health Assessment Skill Path
This track addresses the needs and interests of individuals who wish to pursue or enhance a career in the practice of teaching, planning and evaluation, research, or consulting in public health and health related disciplines. Students will be trained to apply appropriate technological and statistical methodologies to identify and target health problems at the local level.

<table>
<thead>
<tr>
<th>Required Basic Core</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>MPH 601. Principles of Public Health Practice (online option available)</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

432 / GRADUATE STUDIES
MPH 611. Principles of Epidemiology  
(online option available) 3 hours

MPH 621. Basic Biostatistics and Health  
Measures (online option available) 3 hours

MPH 631. Environmental Health (online option available) 3 hours

MPH 641. Disease Prevention and Health Promotion 3 hours

MPH 651. Communications in Public Health 3 hours

**Skill Path Core**

MPH 663. Analysis and Application of Public Health Data 3 hours

MPH 664. Computer-Based Applications 3 hours

MPH 665. Desk-Top Computerized Geographic Information Systems 3 hours

**Total Hours - 27 hours**

**Practicum or Research Project (Required)**

MPH 796. Organizational Setting 6 hours

MPH 797. Applied Research Project in Public Health 6 hours

**Total Hours - 6 hours**

**Electives (3 of 7)**

MPH 700. Community-Health Statistical Measures 2 hours

MPH 701. Research Design and Measurement 2 hours

MPH 702. Small Area Analysis 2 hours

MPH 703. Health Systems and Policy 2 hours

MPH 704. Chronic Diseases 2 hours

MPH 705. Infectious Disease and Bioterrorism 2 hours

MPH 706. Advanced Seminar in Public Health 2 hours

MPH 707. Introduction to Law in Health and Human Services 2 hours

**Total Hours - 6 hours**

**Total Credit Hours Required - 39 hours**

**Community-Based Health Assessment Skill Path**

This track addresses the needs and interests of individuals who wish to pursue or enhance a career in the areas of community organization, managed care, community development, health education and promotion, and public health policy. Students will apply an evidence-based approach to decision making by focusing primarily on strategies and methods for improving outcomes in public health practice.

**Required Basic Core**

MPH 601. Principles of Public Health Practice  
(online option available) 3 hours

MPH 611. Principles of Epidemiology  
(online option available) 3 hours

MPH 621. Basic Biostatistics and Health  
Measures (online option available) 3 hours

MPH 631. Environmental Health (online option available) 3 hours
MPH 641. Disease Prevention and Health Promotion 3 hours
MPH 651. Communications in Public Health 3 hours

**Skill Path Core**
MPH 673. Epidemiology in Health Services Mgmt. 3 hours
MPH 674. Population-Based Health and Demography 3 hours
MPH 675. Community Health Needs Assessment 3 hours

**Total Hours - 27 hours**

**Electives (3 of 7)**
MPH 700. Community Health Statistical Measures 2 hours
MPH 701. Research Design and Measurement 2 hours
MPH 702. Small Area Analysis 2 hours
MPH 703. Health Systems and Policy 2 hours
MPH 704. Chronic Diseases 2 hours
MPH 705. Infectious Disease and Bioterrorism 2 hours
MPH 706. Advanced Seminar in Public Health 2 hours
MPH 707. Introduction to Law in Health and Human Services 2 hours

**Total Hours - 6 hours**

**Practicum or Research Project (Required)**
MPH 796. Practicum 6 hours
MPH 797. Applied Research Project in Public Health 6 hours

**Total Hours - 6 hours**

**Total Credit Hours Required - 39 hours**

**Full Time Status**
A full-time course load for a graduate student is six credit hours per semester. A graduate student may not register for more than nine credit hours in any one semester unless the student obtains permission from the Director of the MPH Program.

**ADMISSIONS INFORMATION**

**G.P.A. Requirement**
An overall undergraduate grade point average of 2.50 or better based on a 4.0 system is required.

**Application Process - Master of Public Health Program**
The Assistant Dean and Registrar for Mercer University School of Medicine (MUSM) require the materials listed below in order to complete the application to the Master of Public Health Program of MUSM.

1. An MPH graduate application form and a non-refundable fee of $40 for domestic applicants and $150 for international students.
2. Official transcripts, sent directly from the college or university for all college-level work completed to earn a baccalaureate degree from an accredited college or university.
3. Official transcripts, sent directly from the college or university for any work completed in addition to the undergraduate degree.

4. Official test results from either the Graduate Records Exam (GRE) taken within the last seven years. The codes for the GRE scores are institution code - 5409 and department code - 0616. The Medical College Admissions Test (MCAT) may be accepted by the program director in lieu of the GRE. Exception: Applicants who hold a master's or higher post baccalaureate degree from a regionally accredited college or university are exempt from the admission test requirement. The Program Director will evaluate test score information as part of academic advisement.

5. A three-page (750 words), double-spaced, typewritten essay on the subject of educational, career, and life goals.

6. Three letters of reference (two of the three letters must be from either current or previous college professors and/or employers, the third may be either a college professor, employer or friend) sent directly to the Office of Admissions, Mercer University School of Medicine, 1550 College Street, Macon, GA 31207.

In addition, all students must complete an interview with the MPH Program Director and/or Faculty. The MPH admissions committee will evaluate each applicant based on his or her academic record, personal qualities, work experience, and personal goals. The application form deadlines for fall and spring entrance are June 1 and November 1, respectively for domestic applicants and May 1 and October 1, respectively, for international applicants. All supporting documents must be submitted within two (2) weeks of each deadline.

Graduate Transfer Students

Because of the specialized nature of the MPH Program offered through MUSM, the amount of transfer credits awarded will be evaluated on a case-by-case basis. However, the maximum number of transfer credits that will be accepted from another graduate institution is limited to six semester hours. The Program Director will make the final determination on the type and amount of transfer credits to be accepted.

FINANCIAL INFORMATION


Tuition per semester hour: $597
Books/Equipment: Average expenses per course - $100
Tuition payments are due at the time of registration for each semester at MUSM. It is specifically understood that students will pay, in full, all charges assumed at registration

Special Fees
Auditing Fees . . . . . . . . . . . . . . . . . . . . . . . . . . . One-half of regular tuition

Special Assessments
Domestic Application Fee . . . . . . . . . . . . . . . . . . . . . . . $40 per request
International Application Fee . . . . . . . . . . . . . . . . . . . . . $150 per request
Late Registration Fee . . . . . . . . . . . . . . . . . . . . . . . . . . . . $25 per semester
Returned Check Fee .............................................. $25 per check
Late Payment Fee .......... 5% of unpaid tuition after financial aid is deducted

Note: All special assessments are non-refundable.

For more information regarding financial aid, consult "The Financial Aid Maze" for Graduate Degree Programs publication issued from The MUSM Office of Financial Aid.

Refunds and Leave of Absence
Refer to the Family Studies section of this Bulletin for this information.

ACADEMIC INFORMATION

1. Completion of the MPH Program should take no more than two (2) years full-time or five (5) years part-time.
2. Full-time enrollment will be considered six (6) semester hours; halftime will be considered (3) semester hours. A graduate student may not register for more than nine (9) credit hours per semester unless the overload has been approved by the Program Director.

Academic Advising
The Program Director will assign a faculty advisor to each student accepted into the program. The advisor will assist students in selecting courses, devising strategies to meet career objectives, and recommending resolutions to academic problems.

Grading Options
Degree-seeking students enrolled in graduate courses will receive letter grades for all graduate work. The grading of "Satisfactory or Unsatisfactory" are not options for MPH graduate students.

Course Numbering System
The numbering system for graduate courses in MPH is 601-799. Each course appears in the Bulletin with the prefix MPH.

Cancellation of Courses
The School of Medicine reserves the right to cancel a scheduled course due to unforeseen circumstances or if an insufficient number of students enrolls for the course. Student advisors will assist students in the selection of alternative courses when a course is canceled.

Changes in Program or Major
If a student pursues one skill path and then decides to change to another path, he or she must meet the following requirements:
1. The student must have a GPA of at least 3.0 in all courses taken in the MPH Program at that time.
2. The student must have demonstrated a record of academic, professional, and personal integrity.
3. The student must complete a comprehensive interview with a faculty advisor.
Curriculum Changes

MUSM may from time to time revise the curriculum for the MPH Program. The academic year for the MPH Program begins with the fall semester (16 weeks) and spring semester (16 weeks) and ends with summer semester (11 weeks). Practicum will continue year round (50 weeks). A student must fulfill the educational requirements in effect during the academic year in which that student entered the program at MUSM unless he or she is not enrolled for two or more consecutive semesters. If a student is not enrolled for two or more semesters including summer, he or she must fulfill the education requirements in effect at the time he or she re-enrolls.

Units of Credit

The MPH Program at MUSM uses the semester hour as the basic unit of credit. The individual course descriptions indicate the number of credit hours awarded for each course.

Grading System

Letter grades are reported and recorded for all courses in which the student is enrolled after the end of the stated course change period. They are as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Interpretation</th>
<th>Quality Points per Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>4.0</td>
</tr>
<tr>
<td>B+</td>
<td>Very Good</td>
<td>3.5</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>3.0</td>
</tr>
<tr>
<td>C+</td>
<td>Above Average</td>
<td>2.5</td>
</tr>
<tr>
<td>C</td>
<td>Average</td>
<td>2.0</td>
</tr>
<tr>
<td>D</td>
<td>Poor</td>
<td>1.0</td>
</tr>
<tr>
<td>F</td>
<td>Failure</td>
<td>0.0</td>
</tr>
<tr>
<td>ABX</td>
<td>Absence from Final Exam Excused</td>
<td></td>
</tr>
<tr>
<td>AU</td>
<td>Audit</td>
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<tr>
<td>IC</td>
<td>Incomplete</td>
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</tr>
<tr>
<td>IP</td>
<td>In Progress (Continuing)*</td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>Withdrawal</td>
<td></td>
</tr>
<tr>
<td>Z</td>
<td>No Grade Submitted</td>
<td></td>
</tr>
</tbody>
</table>

The grade of "IP" is awarded only in graduate internships, practicum, or research courses which may extend beyond the end of a semester. A student is expected to finish in progress work based on the timetable established by the professor issuing the "IP" grade.

The grade of "ABX" denotes that the student was absent from the examination because of illness or another valid and compelling reason deemed satisfactory to the professor. A makeup examination must be taken by the end of the next semester that the student is enrolled at MUSM. Credit will not be awarded unless the ABX grade has been removed within one calendar year from the time it is given.

The grade of "IC" indicates that a relatively small part of the semester’s course work remains incomplete because of sickness or reasons satisfactory to the instructor. The work must be completed within one semester after the student re-enters MUSM. If the student does not complete the required work within the time specified, the grade automatically converts to an "F."
Registration

All students are required to register for courses at the time prescribed in the MUSM calendar or in compliance with official notices issued by the Office of the Registrar/Assistant Dean of Admissions at MUSM. Official course enrollment, which includes the completion of satisfactory arrangement for financial payments, is required for admission to classes. Completing and submitting a registration form commits a student for the courses requested and the corresponding fees and charges incurred. A student who early-registers during a formal registration period and is unable to attend classes, must notify the Registrar in writing prior to the first day of class. A student who registers after formal registration period is required to pay a $25 late fee.

Adding or Dropping Courses

Adding and/or dropping courses must be accomplished on or before the dates specified in the academic calendar. Required forms must be obtained and processed in the Registrar’s office. Courses dropped during this period will not appear on the student’s grade report or permanent record.

Withdrawing from Courses

A student may withdraw from a course with a grade of “W” after the course change period and on or before the last day for withdrawals as shown in the current academic calendar. Withdrawals are not used when computing grade point averages. Students should also read the Financial Information section regarding possible loss of financial aid. To make an official withdrawal from a course, a student must obtain and submit a completed Course Withdrawal Form to the MUSM Registrar. If the student elects to discontinue class attendance and academic performance and does not complete an official Course Withdrawal Form within the time limits described, a grade of “F” will be recorded on the student’s official record.

Academic Standards

A cumulative grade point average of 3.0 is one of the requirements for graduation from the MPH program. In addition to meeting the 3.0 requirement for graduation, students also must have no more than 2 grades of “C” and/or “C+” in the entire graduate work. Grades below a “C” do not count toward a MPH degree. Students not meeting the minimum academic standard will be placed on academic caution. A student may repeat only one course to improve a letter grade of “C” or “C+.”

Academic Caution

The first semester that a student receives a "C" or "C+" the student will be placed on academic caution.

Academic Warning

Upon receiving the second "C" or "C+,” the student will be placed on academic warning.

Academic Exclusion

A student will be permanently excluded from the program upon receiving a third letter grade of "C" or "C+." Also, a student will be permanently excluded from the program with a letter grade of "D" or "F."
Program Limitations

A student seeking a master's degree must complete all program requirements within five years from the start of the program in MUSM. The time requirement begins when a student formally enrolls in his or her first graduate course in MUSM.

Credit through Extra-Collegiate Learning Program

No credit will be awarded for courses taken by correspondence or through other forms of life experiences. Courses taken in other graduate programs in which a degree was earned cannot be used for credit in the MPH Program.

Transfer Credit

A maximum of six hours of graded work may be accepted as transfer credit for MPH electives from a previous accredited college or university. Transfer credits for core courses will be reviewed on a case by case basis.

Transient Status

Students enrolled at another institution who wish to obtain graduate credit for a course taken at Mercer University must provide written authorization from the other institution. The authorization must be accompanied by a completed application for admission and the appropriate application fee. Transcripts and admission test scores are waived.

Transient Credit

Students who wish to earn transient credit from another college must have prior approval from the appropriate Program Director for such credit to be accepted as a part of the degree program. Transient credit may not be used to meet the residency requirement necessary for graduation, except under unusual circumstances which must be approved by the Program Director.

Practicum

The practicum is an important part of the Master of Public Health Program. The practicum experience is intended to expose students to the practical use of skills and knowledge acquired during the academic curriculum experience, and it serves as a forum that allows for the integration of the theoretical with the practical. The practicum facilitates the goal of educating professionals with a demonstrated capacity for excellent performance. Each practicum is individually designed to meet specific objectives during the practice field experience (160 hours required within one semester). Further development of competencies are applied within the public health setting and skills that are used that link academic training to the three core functions of public health (assessment, policy development, and assurance). Political, economic, social, and organizational challenges that are found in public health agencies and exposure to community public health activities enable the student to begin integrating the academic experience with practical experience.

Applied Research Project

Students may elect to complete an applied research project in lieu of a
practicum. The goal of this project is to provide students with the opportunity to use the knowledge and skills acquired in the academic program to develop, explore, and analyze a public health topic. Students electing to complete a research project will have the opportunity to investigate a health issue through the review of current literature and the application of statistical methodology. Students must register for MPH 797 (Applied Research Project in Public Health) in 3-hour increments over the course of two semesters or 2-hour increments over three semesters. Research project objectives include further development of analytical skills learned in the academic program; an opportunity to analyze a public health topic using statistical methodology; further exposure to scientific literature; and enhancement of formal writing and oral presentation experiences.

Degree Requirements

1. Successful completion of all academic course work with minimum of 3.0 GPA. The student may have no more than two letter grades of “C.” A letter grade of “D” may not be included in course work used for the MPH Program.
2. Successful completion of the practicum or research project in public health.
3. Successful clearance granted by the Office of the Registrar.

COURSE DESCRIPTIONS

Courses:

MPH 601. Principles of Public Health Practice (3 hours)
(Online Option Available)
This course focuses on the implications for the management of public health care services. Examination of key contemporary issues in the organization and management of health care services including: in-depth discussion of managerial, social, behavioral, legal, and economic aspects from a macroscopic viewpoint.

MPH 611. Principles of Epidemiology (3 hours)
(Online Option Available)
This course focuses on the basic concepts and principles of epidemiology. The curriculum teaches the descriptive and analytical concepts, techniques and statistics necessary to describe the patterns of descriptive and analytical concepts, techniques and statistics necessary to describe the patterns of disease in a population and to formulate and test epidemiologic hypotheses regarding disease causation.

MPH 621. Basic Biostatistics and Health Measures (3 hours)
(Online Option Available)
This course focuses on the principles and reasoning underlying modern public health biostatistics and on specific inferential techniques commonly used in public health research. At course completion, students will be able to apply basic descriptive and inferential methods in research endeavors, and improve their abilities to understand the data analysis of health related research articles. This includes learning basic terminology and its meaning, the calculations of various statistical measures and indices, quantification of health relationships and the interpretation of inferential statistical techniques. Fundamentals of statistical programming techniques with SPSS or SAS will be emphasized throughout the course.
MPH 631. Environmental Health (3 hours)
(Online Option Available)
This course reviews basic concepts of environmental health, includes physical, mental and social aspects of environmental health and applies them to the prevention of environmentally induced diseases. In this review process, the course examines issues related to biological monitoring in the environment, the workplace, health surveillance, and current environmental standards governing air, water and soil quality. The latter include laws enforced by the Environmental Protection Agency (EPA), the Occupational Safety and Health Administration (OSHA) and Workers’ Compensation.

MPH 641. Disease Prevention and Health Promotion (3 hours)
This course explores topics related to the methods and techniques of health education and disease prevention pertaining to hospitals, clinics, patients, and communities. The curriculum also includes observation and discussion of clinical activities in relation to the processes of health education, educational intervention, strategies for health promotion and disease prevention programs.

MPH 651. Communications in Public Health Practice (3 hours)
This curriculum focuses on teaching effective strategies for the dissemination of public health information at the local level. This course develops students' skills in information sharing with community members, policy makers, health care personnel, and the media about potential or real health problems and risks in the community.

Technology–Based Skill Path

MPH 663. Analysis and Application of Public Health Data (3 hours)
Storage, manipulation and retrieval of public health data as well as statistical summaries of morbidity and mortality will be covered. The course will utilize national, state, and local data sets. The major focus will be hands-on opportunities to analyze public health data with epidemiological methods. The course provides students practice in the analysis and presentation of data from actual public health population-based studies.

MPH 664. Computer-Based Applications and Outcome Measures (3 hours)
This course focuses on epidemiologic examples addressing clinical and community issues; computer-based project management focuses on study design, data collection, and quality control. The use of common software applications will be reviewed, and the aspects of computer networks as public health data sources are introduced.

MPH 665. Desk-Top Computerized Geographic Information Systems (3 hours)
This curriculum focuses on the uses of advanced computer-based techniques in current GIS and MapInfo and health marketing databases (Inforum and Claritas) to assess the health of communities. It involves the application of geocoding and mapping health related data sets for the purpose of targeting special populations for health intervention efforts.
Community–Based Skill Path

**MPH 673. Epidemiology in Health Services Management**  (3 hours)
This course teaches epidemiologic methods in the planning and evaluation of health services. Various epidemiology techniques and designs are applied to assessments of health care needs, priority setting, risk assessment, regional health planning, validity assessment, access to care, and program evaluation.

**MPH 674. Population-Based Health and Demography**  (3 hours)
The principles and concepts of population-based services are presented using basic epidemiologic methods to measure population health status, to determine health risks, and to plan, manage, and evaluate interventions for eliminating disease.

**MPH 675. Community Health Needs Assessment**  (3 hours)
This course explores community health needs assessment in the context of population-based methods. Emphasis is placed on understanding and utilizing health and demographic data for application in community assessment. This course also includes methods for ensuring data integrity by exploring data collection, maintenance and dissemination.

**Electives**

**MPH 700. Community Health Statistical Measures**  (2 hours)
This course examines topics related to the application and interpretation of community health statistics frequently encountered in the medical and public health literature. The application and interpretation of these measures enhance decision-making skills in the areas of community health, outcome evaluation and strategic planning.

**MPH 701. Research Design and Measurement**  (2 hours)
This curriculum provides an in-depth knowledge of the research methodology frequently encountered in the medical and public health literature. It includes design and analysis techniques related to prospective, retrospective, crosssectional, and ecological study designs.

**MPH 702. Small Area Analysis**  (2 hours)
This course concentrates on appropriate techniques used to analyze health related outcomes occurring in small areas. It teaches students to design policies, develop planning strategies, and analyze and evaluate health programs for populations in small areas.

**MPH 703. Health Systems and Policy**  (2 hours)
This course will familiarize the student with the basic elements of the public and mental health delivery systems and health care delivery systems in rural and urban areas, with emphasis on Georgia systems. Specific topics for discussion include the availability, organizational structure and function, and hierarchy of current services. The course will review the impact of local, state and federal programs on the delivery of public health services in the State of Georgia.

**MPH 704. Chronic Diseases**  (2 hours)
This course focuses on review of major issues in chronic disease epidemiology, summarization of relevant pathology, and analogies of population determinants and strategies for prevention. Topics include risk factors, trends, interventions and
health care issues. An interdisciplinary approach to prevention and control will be addressed. Readings and discussions on classical and contemporary research papers in cardiovascular diseases will be emphasized throughout the course.

**MPH 705. Infectious Disease and Bioterrorism** (2 hours)
Elements and principles for the investigation and prevention of infectious diseases will be covered. These will include surveillance models, study designs, laboratory diagnosis, principles of molecular epidemiology, dynamics of transmission and assessment of vaccine field effectiveness. Infectious disease agents to be studied will include those that lend themselves to be used as bioterrorism weapons by virtue of their potential to effect a high degree of morbidity and/or mortality, in large segments of a susceptible population, and with relative speed and stealth.

**MPH 706. Advanced Seminar in Public Health** (2 hours)
The seminar will explore and analyze selected topics in public health. The topics may include contemporary issues in public health areas such as public health practice, assessing risks among cohorts, community-based prevention, eliminating health disparities, quality improvement issues in public health practice, and ethics in public health. The course will address the most important and current public health issues that are challenges for today's public health professionals.

**MPH 707. Introduction to Law in Health and Human Services** (2 hours)
This course is designed to provide a foundation in the relevant law for health and human services practitioners and administrators. It provides an overview of principles established in the US Constitution, federal and state legislation, and judicial decisions affecting the provision of preventive and therapeutic health services. It will focus on how to recognize principles and concepts as they present themselves to health care practitioners, administrators and researchers.

**Practicum or Research Project in Public Health**

**MPH 796. Practicum** (6 hours)
This eight week practicum involves the application of acquired skills in an approved community organization. Students will gain expertise in areas of interest. The specific focus of the rotation will be mutually agreed upon by the student and organization representative, and then approved by the student's advisor. A written and oral report based on experiences and insight obtained during the practicum is required.

**MPH 797. Applied Research Project of Public Health** (6 hours)
The public health research project will involve the investigation of a population-based public health problem. Students will develop an individualized public health research project that will focus on the analysis of the health of populations within communities. The research project will provide an opportunity to utilize and apply knowledge and skills to a public health research project.
# School of Medicine Academic Calendar 2004-2005

## Fall Semester 2004
- Aug 20: Registration
- Aug 23: First day of class
- Sep 6: Labor Day
- Aug 30: Last day to drop/add/late registration
- Oct 27: Last day to withdraw/resign
- Nov 27: Thanksgiving
- Dec 3: Last day of class
- Dec 6-10: Finals week

## Spring Semester 2005
- Jan 7: Registration
- Jan 10: First day of class
- Jan 17: Last day to drop/add/late register
- Jan 19: Martin Luther King Holiday
- Mar 16: Last day to withdraw/resign
- Mar 25: Good Friday
- Apr 22: Last day of class
- Apr 25-29: Finals week
- May 7: Graduation

## Summer (Mini) Semester 2005
- May 6: Registration
- May 9: First day of class
- May 16: Last day to drop/add/late register
- May 30: Memorial Day Holiday
- June 22: Last day to withdraw/resign
- July 4: Independence Day
- July 15: Last day of class
- July 18-22: Finals week
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Craig Gibson, B.A., M.Ed., Head Baseball Coach
Sally Hammel, B.A.A., M.B.A., Head Women’s Golf Coach
Joel Lamp, B.A., Sports Information Director
Jeremy Luther, B.A., Head Men’s and Women’s Cross Country Coach
Daniel McCarthy, B.A., M.ED, Compliance Coordinator
Tom Melville, B.A., M.S., M.Ed., Head Men’s Soccer Coach
Brenda Nichols, B.S., M.S., Head Women’s Basketball Coach
Jason Payne, B.S., Head Men’s Golf Coach
Mickey Pearce, Head Rifle Coach
Grant Serafy, B.S., M.Ed., Head Women’s Soccer Coach
Mark W. Slonaker, B.S.Ed., M.Ed., Head Men’s Basketball Coach
Nick Stutsman, B.A., Head Men’s and Women’s Tennis Coach
TBA, Head, Volleyball Coach
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Clarence Eugene Bell, Professor of Computer Science, Emeritus; B.S., Mississippi State University, 1957; M.A., Louisiana State University, 1964.

Alpha May Bond, Jr., Professor of Sociology, Emeritus; A.B., Dartmouth College, 1952; M.A., Columbia University, 1953; Ph.D., Emory University, 1963.


Barbara Hobson Caminita, Assistant Professor of Biology, Emerita; B.S., M.S., University of Maryland, 1937, 1948.

James Chester Coomer, Jr., Professor of Political Science, Emeritus; B.A., Carson-Newman College, 1965; M.A., Georgia State University, 1968; Ph.D., University of Tennessee, 1974.


Van Hale Crawford, Professor of Chemistry, Emeritus; B.S., Denison University, 1968; Ph.D., University of North Carolina, 1976.

George Espy, Jr., Assistant Professor of English, Emeritus; A.B., Morehouse College, 1956; M.A., Atlanta University, 1965.

Abbie Donald Evans, Professor of Sociology, Emeritus; B.A., M.A., Ph.D., Louisiana State University, 1968, 1971, 1982.

Clare Taylor Furse, Professor of Chemistry, Emeritus; B.S., Ph.D., University of Utah, 1957, 1961.

Howard Peterson Giddens, Curry Professor of Christianity, Emeritus; B.A., M.A., Mercer University, 1934, 1935; Th.M., Th.D., Southern Baptist Theological Seminary, 1938, 1946.
Willis Borders Glover, Professor of History, Emeritus; B.A., Mississippi College, 1938; M.A., University of Virginia, 1939; Ph.D., Harvard University, 1951.


James Ostelle Harrison, Professor of Biology, Emeritus; A.B., Mercer University, 1949; M.S., University of Georgia, 1954; Ph.D., Cornell University, 1960.

Jean Hendricks, Kilpatrick Professor of Psychology, Emerita; A.B., Tift College, 1942; M.S., Ph.D., Florida State University, 1963, 1964.


Bobbie Bobo Hennecy, Associate Professor of English, Emerita; A.B., Mercer University, 1950; M.A., Emory University, 1962.

Ann Nickerson Hughes, Professor of Foreign Languages and Literatures, Emerita; A.B., Mercer University, 1950; M.A., Ph.D., University of Georgia, 1964, 1973.

Franklin Ward James, Callaway Professor of Chemistry, Emeritus; B.S., Mississippi College, 1947; Ph.D., University of North Carolina, 1952.

Edwin Dargan Johnston, Roberts Professor of Christianity (Bible), Emeritus; A.B., Mercer University, 1941; Th.M., Th.D., Southern Baptist Theological Seminary, 1944; 1955; Ph.D., Victoria University of Manchester, 1950.

Lois Belle Lantz, Associate Professor of Music, Emerita; B.M., M.M., Indiana University, 1949, 1950.


Harold Lynn McManus, Roberts Professor of Christianity, Emeritus; B.A., Wake Forest College, 1941; Th.M., Southern Baptist Theological Seminary, 1944; S.T.M., Ph.D., Yale University, 1948; 1953.


Leslie Hurst Peek, Associate Professor of Mathematics, Emeritus; B.S., B.A., Carson-Newman College, 1959; M.M., University of Tennessee, 1963.

Chandler Jones Pike, Assistant Professor in Mathematics, Emerita; B.A., Randolph-Macon Woman’s College, 1969; M.S., Florida State University, 1971; Ph.D., University of Georgia, 1999.
Wilfred Carlton Platt, Jr., Professor of History, Emeritus; A.B., Furman University, 1958; B.D., Southern Baptist Theological Seminary, 1962; M.A., Ohio University, 1963; Ph.D., University of Georgia, 1966.

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B. Ruth Bastin Slentz, Associate Professor of Biology, Emerita; A.B., Agnes Scott College, 1948; M.A., Emory University, 1957.

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Denise Carla Volkoff, Associate Professor of Foreign Languages and Literatures, Emerita; B.A., Lycee Feneion, 1949; C.E.L.G., License es Lettres, Sorbonne, 1951.

Henry Young Warnock, Professor of History, Emeritus; A.B., Mercer University, 1942; M.A., University of Georgia, 1949; M.A., Ph.D., Northwestern University, 1953, 1963.

Lawrence Emory Whitaker, Professor of Mathematics, Emeritus; B.S., Davidson College, 1964; M.A., Ph.D., University of Georgia, 1966, 1975.

Mary Roberts Wilder, Professor of English, Emerita; A.B., Mercer University, 1954; M.A., Peabody College, 1961; Ph.D., Florida State University, 1970.


Alfred Eliot Youman, Professor of Foreign Languages and Literatures, Emeritus; B.A., M.A., Ph.D., Yale University, 1951, 1956, 1959.

Full-Time:


Robert A. Allen (1992) Associate Professor of Computer Science; B.S., Berry College, 1982; M.S., Ph.D., Clemson University, 1985, 1988.


Gary Lee Blackburn (1987) Chair and Associate Professor of Art; B.A., Corpus Christi State University, 1979; M.F.A., Stephen F. Austin State University, 1982.


Margaret Dee Bratcher (1985) Professor of Christianity and Dean of University Commons; B.A., Wake Forest University, 1975; M.Div., Southern Baptist Theological Seminary, 1978; Ph.D., Southern Baptist Theological Seminary, 1984.

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Full-Time:


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School of Engineering – Faculty

Emeritus:

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Full-Time:


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Tift College of Education
– Faculty

Emeriti:


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School of Medicine

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Faculty - Division of Library Services - Macon

Emerita:

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