MERCER UNIVERSITY
Catalog 2013-2014

College of Liberal Arts
Eugene W. Stetson School of Business and Economics
School of Engineering
Tift College of Education
Townsend School of Music

Macon, Georgia 31207
Federal Disclosure Requirements

Mercer University's Federal Disclosure Requirements are available from the University website at http://disclosure.mercer.edu/. This report contains the following information:

- Campus Security: Jeanne Clery Disclosure for Campus Security, campus crime statistics, Campus Sex Crime Prevention Act, and fire safety
- Campus Emergency Procedures
- Drug and Alcohol Policies
- Financial Assistance and Cost of Attendance Information
- Health and Safety Information: immunization and missing persons information
- Institutional Information: accreditation, characteristics of students, degree programs, degree program improvement plans, disability support services, FERPA information, retention and graduation rates, peer-to-peer file sharing, post-graduate employment information, readmission of veterans, transfer of credit, withdrawal procedures, voter registration, and satisfactory progress standards.

Paper copies of these reports are available upon request. Please contact the Office of Institutional Effectiveness by mailing inquiries to:

Office of Institutional Effectiveness
Mercer University
1400 Coleman Avenue
Macon, GA  31207

Equal Opportunity Policy

Mercer University is committed to providing equal educational and employment opportunities to all qualified students, employees, and applicants, without discrimination on the basis of race, color, national or ethnic origin, sex, sexual orientation, age, or disability, as a matter of University policy and as required by applicable state and federal laws (including Title VI, Title VII, Title IX, Sections 503 and 504, ADEA, ADA, E.O. 11246, and Rev. Proc. 75-50). Inquiries concerning this policy may be referred to Mercer's Equal Opportunity/Affirmative Action Officer, Human Resources, 1400 Coleman Avenue, Macon, Georgia  31207, telephone (478) 301-2786.
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# Calendar 2013–2014

## Fall 2013
- Open Registration Ends: Aug 19
- Opening Convocation: Aug 19
- First Day of Classes: Aug 20
- Late Registration and Drop/Add Period: Aug 21-24
- Labor Day Holiday: Sep 2
- Fall Break: Oct 3-4
- Mid-Term: Oct 11
- Last Day for Course Withdrawal: Oct 28
- Master's Theses and Dissertations Due in Provost Office: Nov 1
- Application for Spring & Summer 2014 Graduation Due: Nov 1
- Thanksgiving Holidays: Nov 27-29
- Last Day of Classes: Dec 6
- Reading Days: Dec 7-8, 11
- Final Examinations: Dec 9-10, 12-14

## Spring 2014
- Open Registration Ends: Jan 5
- First Day of Classes: Jan 6
- Late Registration and Drop/Add Period: Jan 6-10
- MLK, Jr. Holiday: Jan 20
- Mid-Term: Feb 26
- Spring Break: Mar 10-14
- Last Day for Course Withdrawal: Mar 25
- Application for Fall 2014 Graduation Due: Mar 28
- Good Friday: April 18
- Master's Theses and Dissertations Due in Provost Office: Apr 2
- Honors Convocation: Apr 4
- Last Class Day: Apr 25
- Reading Days: Apr 26-27, 30
- Final Examinations: Apr 28-29, May 1-3
- Commencement: May 10

## Summer 2014
### Session 1 (5 weeks)
- Classes Begin: May 19
- Holiday: May 26
- Classes End: June 18
- Reading Day: June 19
- Exams: June 20
### Session 2 (5 weeks)

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<tr>
<td>Classes Begin</td>
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<td>Master's Theses and Dissertations Due in Provost Office</td>
<td>July 1</td>
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<td>Holiday</td>
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<td>Classes End</td>
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### Session 3 (10 weeks)

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<td>Exams</td>
<td>July 25-26</td>
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Correspondence Directory

For Information On:

Academic Programs
  College of Liberal Arts .............................. Dean Lake Lambert
  School of Business and Economics ............... Dean Susan P. Gilbert
  School of Engineering .............................. Dean Wade Shaw
  Tift College of Education ........................... Interim Dean Paige L. Tompkins
  Townsend School of Music .......................... Dean C. David Keith
  School of Medicine ................................. Dean William F. Bina

Academic Records and Transcripts .................... Office of the Registrar

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

Athletics ................................................ Mr. Jim Cole, Director of Athletics

Alumni .................................................. Alumni Services

Denominational Relations ............................. Dr. Craig T. McMahan
  University Minister

Fees and Business Matters ............................. Dr. James S. Netherton
  Executive Vice President for Administration and Finance

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

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

Graduate Studies ...................................... Provost Office

Undergraduate Studies ............................... Provost Office

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

Social Organizations/Greek Life ...................... Campus Life

Student Financial Planning ........................... Ms. Maria A. Hammett
  Associate Vice President for Student Financial Planning

Student Affairs ....................................... Dr. Douglas R. Pearson
  Vice President and Dean of Students
The University

Founded in 1833, Mercer University is a dynamic and comprehensive center of undergraduate, graduate, and professional education. The University enrolls more than 8,300 students in 12 schools and colleges—liberal arts, law, pharmacy, medicine, health professions, business, engineering, education, theology, music, nursing, and continuing and professional studies—on major campuses in Macon, Atlanta, and Savannah and at four regional academic centers across the state. Mercer is affiliated with four teaching hospitals—The Medical Center in Columbus, St. Francis Hospital, Columbus, Memorial University Medical Center in Savannah and the Medical Center of Central Georgia in Macon, and has educational partnerships with Warner Robins Air Logistics Center in Warner Robins and Piedmont Healthcare in Atlanta. The University operates an academic press and a performing arts center in Macon and an engineering research center in Warner Robins. Mercer is the only private university in Georgia to field an NCAA Division I athletic program. Mercer has been ranked among the leading regional colleges and universities in the South by U.S. News & World Report for more than 20 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 between faith and learning, and embracing the principles of intellectual and religious freedom. For 175 years, young men and women have left Mercer to become influential leaders and doers of great deeds.

Students benefit from Mercer’s welcoming atmosphere and small-class learning environment. They learn from a prestigious, yet caring, faculty. Mercer’s faculty members, whose credentials come from some of the world’s finest academic institutions, are distinguished for both teaching and research. More than 90 percent of the faculty hold doctorates or the highest attainable degrees 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 Vision

One of the finest private universities in the Southeast, Mercer University will be nationally renowned for providing a dynamic, diverse, and rigorous education where every student matters and learns to make a difference.

University Mission Statement

Mercer University’s mission is to teach, to learn, to create, to discover, to inspire, to empower and to serve. In fulfilling this mission, the University supports undergraduate, graduate, and professional learning as well as basic research and its application in service to others. As a university committed to excellence and innovation, Mercer challenges members of its community to meet and exceed high standards in their teaching, learning, research, scholarship and service.

Founded by Baptists in 1833, Mercer is an independent university that remains grounded in a tradition that embraces freedom of the mind and spirit, cherishes the equal worth of every individual, and commits to serving the needs of humankind. As a reflection of this heritage:

- We encourage our students to discover and develop fully their unique combination of gifts and talents to become leaders who make a positive difference in the world.
We seek to inspire members of our community to live virtuous and meaningful lives by using their gifts and talents to serve the needs of humankind as an expression of their love for God and neighbor.

We seek to enrich the mind and spirit by promoting and facilitating an open and rigorous search for truth and understanding, including an examination of the moral, religious and ethical questions of this and every age.

We affirm and respect the dignity and sacred worth of every person and celebrate both our commonalities and our differences.

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 was founded in 1833 in Penfield by Georgia Baptists. The school, under the leadership of Baptist minister and spiritual father Adiel Sherwood, was named for Jesse Mercer, a prominent Baptist leader and the first chair of the Mercer Board of Trustees.

Josiah Penfield gave the $2,500 that prompted the Georgia Baptist Convention to begin plans to open a school. Many Georgia Baptists gave matching funds for Penfield’s gift. The school opened under principal Billington Sanders.

Initially a boys’ preparatory school named “Mercer Institute,” the school at its founding consisted of a red clay farm and two hewed log cabins, valued at approximately $1,935. Enrollment for the first term was 39 students although, when the school opened, there were considerably fewer and others came over the first few weeks. Tuition was $35 for the year. Board was provided at $8 per month, and each student was required to supply his own bedding, candles and furniture.

From its humble beginnings in Penfield, Mercer today is a dynamic and comprehensive center of undergraduate, graduate and professional education. The University has 8,300 students; 12 schools and colleges – liberal arts, law, pharmacy, health professions, medicine, business, engineering, education, theology, music, nursing and continuing and professional studies; major campuses in Macon, Atlanta and Savannah; three regional academic centers around the state; a university press; two teaching hospitals; educational partnerships with Warner Robins Air Logistics Center in Warner Robins and Piedmont Healthcare in Atlanta; an engineering research center in Warner Robins; a performing arts center in Macon; and a NCAA Division I athletic program.

The institution’s reputation for exceptional academics in an engaged learning environment continues to grow. For almost two decades, U.S. News & World Report has ranked Mercer among the leading universities in the South. The Princeton Review repeatedly ranks it in the top 10 percent of all colleges and universities in North America. The University has been named a “College with a Conscience” by The Princeton Review and College Compact and has been named to the President’s Higher Education Community Service Honor Roll for distinguished community service. Mercer has also earned a Community Engagement classification by the Carnegie Foundation for the Advancement of Teaching.
Historical Highlights

Mercer in the 19th Century

1833 Mercer Institute, the forerunner of Mercer University, is founded by Georgia Baptists in Penfield as a manual labor school for boys.

1838 Mercer's first Board of Trustees is elected and Mercer Institute becomes known as Mercer University.

1839 First college classes begin.

1841 First college class is graduated.

1843 Principal college building at Penfield is destroyed by fire.

Early 1860s Mercer is one of the few colleges in the South and the only one in Georgia to remain open during the War Between the States. When war was declared, students and graduates of Mercer responded “to defend their constitutional rights and sacred honor.” Most of the senior classes of 1861 and 1862 joined the Confederacy together.

1866 Mercer awards General Robert E. Lee, C.S.A., the honorary Doctor of Laws degree. Mercer is the only university to grant an honorary degree to General Lee.

1870 During the April 1870 Georgia Baptist Convention (GBC) meeting, the decision is made to move Mercer away from Penfield. In August, the commission, appointed by the GBC to find a new location, votes to approve Macon. In September, President David E. Butler tells Macon Mayor George S. Obear and the City Council that Macon has been chosen and “that the proposition on their part to pay you the sum of $125,000…in bonds of the city of Macon, and a site to cost not over $25,000…was accepted.” On Oct. 28, President H.H. Tucker reports that a six-acre site, adjoining Tatnall Square, has been selected. On Nov. 2, Mayor Obear presents $125,000 in bonds and the title deed to the land; a written contract has been entered into between the Trustees and the city. The end of the year marks the closing of the school at Penfield and the University moved.

1871 Mercer relocates to Macon.

1873 A law school is organized and classes begin in February 1874. The first classes are held in the courthouse and in law offices.

1874 Construction of the Administration Building is completed at a cost of $100,000.

1880 The cornerstone of the new chapel building (current-day Willingham) is in place. The chapel is dedicated in 1881, debt-free.

1892 Mercer plays the University of Georgia in Athens in the first college football game in the state of Georgia and one of the first in the Southeast. The game, scheduled for Thanksgiving Day 1891, is postponed until January 1892. Georgia triumphed, 50-0.

In the fall, Mercer would record its first win in football, beating Georgia Tech, 12-6, in Macon, in the Yellow Jackets’ first game ever.

Mercer in the 20th Century

1903 Mercer opens the School of Pharmacy.

1918 The School of Pharmacy closes.

During World War I, the Mercer Board of Trustees authorized President Rufus W. Weaver to tender to the secretary of the Navy and the secretary of war the buildings and equipment of the University that they might be used effectively in service of the nation. The Student Army Training Corps is established at Mercer on Oct. 1, 1918, and continues until the following spring. Following the war, Mercer discontinues systematic military training. Altogether, Mercer's war dead numbers 14.

1919 Mrs. W. E. Jackson is the first woman to receive a degree from Mercer. Mrs. Jackson, who later becomes Mrs. Joseph Seth Weekly, is awarded the LL.B. degree.
1922 WMAZ Radio, with call letters standing for “Watch Mercer Attain Zenith,” goes on the air, located in the tower of the chapel building.

1927 Mercer turns the fledgling radio station over to the Macon Junior Chamber of Commerce.

1933 Mercer celebrates its centennial.

1939 Macon Baptist Pastors Union requests an investigation of the character of teaching in some of Mercer’s classrooms. After a 10-hour hearing held in Roberts Chapel on March 30, the Board of Trustees accepts the action of the special committee disposing of the charges.

1940 Willingham Chapel Building is rededicated and a new organ is installed.

1942 Mercer sets apart the Law Building and Roberts Hall for use by the War Training Service during World War II.

1943 The Navy V-12 School is established on July 1 and continues until October 1945. Mercer is one of nine institutions in the Southeast selected to give aviation instruction in the Navy War Training Service. During this period, 731 trainees receive basic aviation instruction in the Mercer V-12 program.

1947 In ceremonies held in Willingham Chapel and Ryals Law Building, the Walter F. George School of Law is named for Georgia's U.S. Senator Walter F. George.

1949 Mercer dedicates the restored Mercer Chapel at Penfield with Dr. Louie D. Newton as speaker.

1957 Construction is completed on the George B. Connell Student Center.

1959 The Southern School of Pharmacy in Atlanta merges with Mercer University.

1963 Sam Jerry Oni of Ghana, Africa, becomes the first black to enter Mercer. On April 18, Mercer Trustees vote to admit qualified students without regard to race, and Mercer becomes one of the few private colleges in the South to do this before being required by the 1964 Civil Rights Act.

1965 Mercer dedicates the Eugene W. Stetson Memorial Library.

1967 Mercer dedicates Knight Hall of Humanities.

1968 The Hugh M. Willet Science Center is dedicated.

1972 Mercer dedicates the new School of Pharmacy building in Atlanta. Atlanta Baptist College merges with Mercer University and becomes known as Mercer University in Atlanta. Today it is known as the Cecil B. Day Graduate and Professional Campus.

1973 The Law School’s centennial is celebrated and Mercer graduate and U.S. Congressman Carl Vinson’s 90th birthday is observed.

1974 Construction of the Ida B. Patterson Infirmary is completed.

1976 Mercer acquires the Insurance Company of North America Building on Coleman Hill in Macon as the home of the Walter F. George School of Law under a gift-purchase agreement for $1 million. The property is valued at more than $4 million.

1978 The former Tatnall Square Baptist Church on the Macon campus is rededicated as Newton Hall in honor of Dr. Louie D. Newton.

Mercer acquires the Overlook Mansion on Coleman Hill, now known as the Woodruff House. Later in the year, Mercer gives the mansion to the City of Macon, and after restoring the exterior, the City of Macon returns the mansion to Mercer in November 1981.


1980 Mercer dedicates the restored Administration Building.

Inauguration ceremonies for Mercer’s 17th president, Raleigh Kirby Godsey, are held at the Macon City Auditorium.

Mercer dedicates the A.T. Davis Administration Building, College of Arts and Sciences, in Atlanta.
Mercer dedicates the Sheffield Building, College of Arts and Sciences in Atlanta.

1981 Mercer dedicates the School of Medicine’s Education Building in Macon.

1982 Mercer University School of Medicine admits its charter class of students in the fall.

1983 Mercer establishes the School of Business and Economics in Atlanta. The dedication of the Woodruff House, formerly known as Overlook Mansion, takes place. Mercer dedicates the W.G. Lee Alumni House in Macon.

Mercer dedicates the Monroe F. Swilley Jr. Library in Atlanta.

The Plunkett-Sewell family commissions a Holtkamp pipe organ, specially designed for Newton Chapel. The 52-rank Tracker instrument is one of the largest organs of its kind on the eastern seaboard, establishing Mercer as a center for organ performance and teaching.

1984 The Eugene W. Stetson School of Business and Economics is established in Macon.

The School of Engineering is established in Macon.

The Walter F. George School of Law becomes the home of the National Criminal Defense College.

The College of Arts and Sciences in Atlanta becomes the Cecil B. Day College of Arts and Sciences.

1985 The charter class of the School of Engineering begins its studies and construction on a new building for Engineering is begun.

1986 Tift College, a Georgia Baptist women’s institution in Forsyth, merges with Mercer University.

The new School of Engineering building opens for classes in the fall and is dedicated in October.

1987 University College, formerly the College of Continuing Education, is established, with educational centers located in Macon, Thomaston, Griffin, Eastman and Douglasville.

Nine kaolin industries in middle Georgia join together to establish the world’s first Kaolin Industry Endowed Chair at the School of Engineering.

Groundbreaking is held for a new 93,750-square-foot library building located on the main campus in Macon.

The Mercer Engineering Research Center (MERC) is established as an extension of the School of Engineering. MERC provides a broad range of customer-oriented services to commercial and government clients.

1988 The Walter F. George School of Law receives the largest gift in the University’s history at that time — $14 million from George W. Woodruff.

1989 The University’s Board of Trustees votes to discontinue undergraduate liberal arts education on the Atlanta campus. The mission of the Cecil B. Day Campus in Atlanta is changed to focus on graduate and professional education.

1991 In April, the University breaks ground on a new education and research center for the Southern School of Pharmacy on the Cecil B. Day Campus in Atlanta.

1992 In July, the Southern School of Pharmacy moves from downtown Atlanta to the 300-acre Cecil B. Day Campus in northeast Atlanta.

1994 The University’s Board of Trustees, faculty, administration and staff launch the Mercer 2000: Advancing the Vision Campaign, seeking $126 million for endowment and facilities.

The Board of Trustees approves plans to establish a School of Education and a School of Theology.

1995 In April, the University’s Board of Trustees approves plans to locate the School of Theology on the Cecil B. Day Campus in Atlanta. During its April meeting, it also votes to transfer University College’s programs to the Eugene W. Stetson School of Business and Economics, the School of Medicine and the School of Education.
On Oct. 1, Mercer enters into a 20-year lease with Bibb County for the management and administration of The Grand Opera House in downtown Macon.

**1996** Construction is completed on the new 32,000-square-foot School of Theology building on the Cecil B. Day Campus in Atlanta. The School's charter class of students is admitted in the fall.

Renovations totaling $7.6 million are completed in Boone, Dowell, Porter and Shorter residence halls on the Macon campus.

Through a gift/purchase agreement, Mercer acquires the former Georgia Natural Gas building, located on the corner of Poplar Street and Martin Luther King Jr. Boulevard in downtown Macon.

**1997** In April, the Board of Trustees approves naming the School of Theology for James and Carolyn McAfee. The inaugural convocation and dedication of the James and Carolyn McAfee School of Theology is held in October.

The former Findlay House, located next to the W. G. Lee Alumni House on Coleman Avenue in Macon, is restored and dedicated in May as the Tift College Alumnae House.

Construction is completed on a 26,557-square-foot academic facility for the Douglas County Center.

Construction is completed on a new 52,155-square-foot facility for the Mercer Engineering Research Center in Warner Robins.

The School of Medicine completes construction on a 10,000-square-foot expansion of its research wing.

The former Stetson Library is rededicated in September as Stetson Hall and converted into office and classroom space for the Stetson School of Business and Economics and the School of Education.

**1998** On Dec. 4, the University breaks ground on a 28,300-square-foot building for the Department of Music of the College of Liberal Arts.

**1999** The James and Carolyn McAfee School of Theology graduates its charter class in May.

Mercer breaks ground for a Greek Village in Macon and student apartment buildings in Macon and Atlanta.

Mercer completes renovations on two School of Medicine buildings in downtown Macon: a 27,000-square-foot building for the Departments of Internal Medicine and Psychiatry and Behavioral Science on the corner of First and Pine Streets, and a 5,500-square-foot facility for graduate medical education on First Street.

**Mercer in the 21st Century**

**2000** During a ceremony on April 20, Mercer dedicates the Jack Tarver Memorial Library.

Mercer breaks ground for an 8,500-square-foot Baptist Collegiate Ministries building, later named the Religious Life Center.

In August, Mercer opens its new police station and seven new apartment buildings on the Macon campus and two new apartment buildings on the Cecil B. Day Campus in Atlanta.

In September, Mercer dedicates the new 18-building Greek Village.

Mercer and LaGrange College are co-recipients of a gift of property from Remer and Emily Crum valued at the time at $123 million. The 83-acre Century Center Park property is located near I-85, north of Atlanta.

Mercer and the Georgia Baptist Convention announce that the 98-year-old Georgia Baptist College of Nursing, located in downtown Atlanta, will merge with Mercer on Jan. 1, 2001.
2001 The School of Education is renamed the Tift College of Education of Mercer University at the April Board of Trustees meeting.

Mercer announces the creation of the Center for Baptist Studies.

2002 The McAfee School of Theology receives full membership into the Association of Theological Schools (ATS) as an accredited school of theology.

The new Georgia Baptist College of Nursing building on the Atlanta campus is dedicated during the College's centennial celebration.

2003 Mercer and Robins Air Force Base mark the 20th anniversary of a partnership agreement that sparked a School of Engineering on the Macon campus and an engineering research center in Warner Robins.

Mercer dedicates its state-of-the-art recital hall in the McCorkle Music Building, naming it the Neva Langley Fickling Hall.

Mercer opens the doors to its newest regional academic center in McDonough, providing opportunities for adult learners in Henry County and surrounding areas. The University's programs in Griffin and Covington are merged into the Henry County location.

The University's 10th academic unit, the College of Continuing and Professional Studies, is established from the former Division of Extended Education. The non-education programs in the Tift College of Education are moved to the new college.

Mercer purchases the Georgia Baptist Center, which was previously owned by the Georgia Baptist Convention and is adjacent to the Atlanta campus. It becomes the Atlanta Administration and Conference Center.

2004 The University plays its first basketball games in the new University Center Arena during Homecoming week, Jan. 27-Feb. 1. The remainder of the signature facility on the Macon campus opens March 15.

The official dedication of the University Center and the Griffin B. Bell Board Room is held in April, following the Board of Trustees meeting.

2005 Mercer partners with Piedmont Healthcare, one of the state's prominent hospital systems, to establish the Center for Health and Learning in Atlanta.

The Townsend-McAfee Institute is established to offer graduate programs in church music that prepare musical artists for the ministry. The institute is a collaboration between the Department of Music in the College of Liberal Arts in Macon and the McAfee School of Theology in Atlanta.

2006 After 27 years as president, R. Kirby Godsey steps down from his leadership role to become chancellor, leaving office as the longest-serving president in University history. William D. Underwood, former interim president of Baylor University, former high-profile attorney and noted legal scholar and teacher, becomes the University's 18th president on July 1.

The Department of Music in the College of Liberal Arts becomes the Townsend School of Music on July 1. Trustee Carolyn McAfee, widow of James T. McAfee Jr., former chairman of Mercer's Board of Trustees, and her son and daughter-in-law, Tom and Julie McAfee, provided the founding endowment.

The Townsend-McAfee Institute and Mercer University Press announce they will develop a new hymnal for Baptists and other Christian fellowships, slated for release in 2009. In early 2007, the name of the new hymnal is unveiled: Celebrating Grace: Hymnal for Baptist Worship.

The Robert McDuffie Center for Strings is established on the Macon campus, offering conservatory-quality music training in a comprehensive university setting. Under the leadership of internationally renowned violinist Robert McDuffie, the center is designed to provide highly talented string students the opportunity to learn with some of the nation's renowned string musicians.
Tift College of Education’s Educational Leadership Program offers a Doctor of Philosophy in P-12 School Leadership on the Macon and Atlanta campuses.

The 103-year-old Southern School of Pharmacy changes its name to the College of Pharmacy and Health Sciences on July 1. The name change reflects additional health science programs, including a new physician assistant program.

The American Baptist Historical Society, with the largest and most diverse collection of Baptist historical materials and archives in the world, announces it will relocate to Mercer’s Atlanta campus. The ABHS consolidated holdings from facilities in Valley Forge, Pa., and Rochester, N.Y.

Radio station WMUM-FM (Mercer University Macon), formerly WDCO-FM, opens on the Macon campus. A partnership between Mercer and Georgia Public Broadcasting, the station provides local content to central Georgia public radio listeners from its broadcast studio on the Macon campus.

2007 The Baptist History and Heritage Society, founded in 1938 as the Southern Baptist Historical Society, relocates from Brentwood, Tenn., to the Atlanta campus. An independent organization with historic ties to the Southern Baptist Convention.

The Tift College of Education adds a higher education leadership track to its Ph.D. in Educational Leadership.

Three teams of students and faculty inaugurate the Mercer On Mission program over the summer in Kenya, Brazil and Guatemala. The program combines academic credit with service-learning opportunities.

The School of Medicine, as it celebrates its 25th year, announces it will open a second, four-year doctor of medicine program in Savannah in fall 2008. The program will be based at Memorial University Medical Center, where Mercer has had a clinical relationship since 1996 to provide instruction for part of the school’s third- and fourth-year medical students.

The Mercer Athletic Foundation is established to raise funds for intercollegiate athletics.

The University completes a new gateway entrance to the Macon campus on Mercer University Drive, near Interstate 75, and a new Hilton Garden Inn opens on that side of the campus.

The building housing the Douglas County Regional Academic Center is dedicated to longtime benefactors Fred and Aileen Borrish.

The new Science and Engineering Building is dedicated, and the University celebrates the School of Engineering’s 22-year partnership with Warner Robins Air Logistics Center.

2008 The New Baptist Covenant is held at the Georgia World Congress Center in Atlanta, drawing on some of the most prominent figures in Baptist life. The New Baptist Covenant traces its roots to April 10, 2006, when Jimmy Carter and Mercer President William D. Underwood convened at The Carter Center in Atlanta a group of 18 Baptist leaders representing more than 20 million Baptists across North America. Celebrating its 175th year, Mercer marked the anniversary with special Founders’ Day activities, including the traditional convocation on the Macon campus, as well as a Feb. 26 event on the Atlanta campus and an event featuring a discussion with five “Mercer Legends” on the Macon campus.

Mercer Trustees endorse a new vision statement and an ambitious 10-year strategic plan for the University that calls for more than $1.2 billion in new investments in the institution’s endowment, faculty and staff, facilities and technology, and academic and co-curricular programs over the next decade. Titled “Charting Mercer’s Future: Aspirations for the Decade Ahead,” the strategic plan was developed over the prior 18 months under the leadership of the University Planning Council and with the input of trustees, faculty, staff, alumni, students, community leaders, parents of current students, and other stakeholders.

Economics icon Arthur B. Laffer Sr. and long-time educator Horace W. Fleming are named to the positions of Distinguished University Professors. Laffer was named as
Distinguished University Professor of Economics and Fleming as Distinguished University Professor of Educational Leadership.

Redevelopment efforts in downtown Macon and the neighborhoods surrounding Mercer's Macon campus received a major boost from the John S. and James L. Knight Foundation. Mercer was awarded a $250,000 planning grant from Knight Foundation to facilitate a voluntary alliance of redevelopment partners to coordinate plans and leverage new investments.

Thirty first-year medical students receive their white coats and begin their education as members of the inaugural class in Mercer's new four-year medical program in Savannah.

The School of Medicine is awarded the largest one-time grant in the history of the school. The National Institutes of Health provided the Department of Family Medicine at the School of Medicine with $3.1 million to conduct a five-year study of the Church-Based Diabetes Prevention and Translation program.

Promising a “sober speech,” former U.S. President Jimmy Carter called on the next administration of the United States to restore human rights as a national priority. Carter made his remarks during the second annual President's Lecture Series on the Macon campus.

Moving its Homecoming to the fall under the theme, “Reconnect, Reunite, Rediscover,” scores of Mercerians and their families came back to campus Nov. 21-23. In recent years, the University's Homecoming was held in the winter at the end of the basketball season.

Mercer Trustees approved new Ph.D. programs in nursing and curriculum and instruction. The new doctoral programs – Mercer's third and fourth – fulfill objectives in the University's recently-adopted 10-year strategic plan to expand Ph.D. offerings. Mercer earns national recognition from the Carnegie Foundation for the Advancement of Teaching for its commitment to community engagement. Mercer is the only college in Georgia, and one of just 119 in the United States, to be selected by the foundation for its 2008 Community Engagement Classification.

2009 Griffin Boyette Bell, one of Mercer's most distinguished graduates and the 72nd Attorney General of the United States, succumbs to cancer at the age of 90 on Jan. 5 in Atlanta.

Mercer earns the highest federal recognition for community engagement according to the Corporation for National and Community Service. For the University’s exemplary service efforts and service to the community, the corporation named Mercer to the President's Higher Education Community Service Honor Roll for 2008.

The Clinton Global Initiative University recognizes Mercer's efforts to help amputees in Vietnam and other developing nations as “as an exemplary approach to addressing a specific global challenge” during the organization's annual conference in Austin, Texas.

The University’s Mercer On Mission project was one of only four “commitments” by universities around the country to be recognized by President Bill Clinton during the conference's opening plenary session.

The Atlantic Sun Conference announces that Mercer will host the 2010 and 2011 General Shale Brick Men's and Women's Basketball Championships at the University Center. Mercer, one of the conference's charter members, will host the tournament for the first time in the university's history.

An announcement is made that a $10 million mixed-use development on the Macon campus will feature loft-style apartments and retail space for the Mercer Bookstore and other businesses that cater to the Mercer community and residents in the College Hill Corridor. Called "The Lofts at Mercer Village," the development will be located on Montpelier Avenue across from Ingleside Village Pizza and Jittery Joe's Coffee. It has been designed
to create a vibrant streetscape, enhancing the recent retail development in Mercer Village, which in addition to Ingleside Village Pizza and Jittery Joe's Coffee, is home to Francar's Buffalo Wings, Georgia Public Broadcasting studios and College Hill Alliance offices.

2010 A Mercer On Mission project that provides low-cost prosthetics to amputees in developing countries received two substantial grants to help with those efforts. The National Collegiate Inventors and Innovators Alliance awarded Dr. Ha Van Vo, assistant professor of biomedical engineering, with a Sustainable Vision Grant of $37,275 to help him perfect his design and set up a prosthetic lab and clinic in Vietnam. The Cooperative Baptist Fellowship awarded the University a $50,000 grant to replicate the Vietnam program in Haiti, where the 2010 earthquake left thousands of Haitians without limbs.

Mercer celebrated its new Newnan Regional Academic Center on Sept. 21 with an opening ceremony and ribbon cutting. The center began classes in August with three degree programs, including the Bachelor of Science in Education in early care and education and early childhood/special education from the Tift College of Education and the Bachelor of Science in Social Science in Public Safety from the College of Continuing and Professional Studies.

The sights and sounds of intercollegiate football will return to the Mercer University campus after a 70-year absence. The University's Board of Trustees on Nov. 19 unanimously approved a plan to resume competition in football in the fall of 2013. Mercer currently fields 15 men's and women's sports and is the only private university in Georgia to compete in NCAA Division I athletics.

The Board also elected two new Life Trustees, Thomas B. Black of Columbus and James Coward of Norcross. Black is a retired administrator with the Bradley-Turner Foundation, a top-10 private foundation in Georgia that has helped to fund several projects at Mercer, including the University Center and the Science and Engineering Building. Cowart is president and owner of Jim Cowart Inc., a Dunwoody-based land development firm.

2011 Mercer Distinguished Alumnus and former Trustee Nathan Deal was inaugurated in January as Georgia's 82nd governor. He became the 11th Mercer alumnus to hold that office. Seven Mercerians have led the State of Georgia, and four others have served as governors of the states of Alabama, Texas, New Hampshire and the Commonwealth of Puerto Rico.

Mercer's first outdoor commencement was held May 14 on the Cecil B. Day Campus in Atlanta. More than 6,000 guests witnessed the largest 2012 ceremony, held on the upper fields of the campus.

A grand opening was held in August for the Lofts at Mercer Village, a multi-million dollar development located on Montpelier Avenue in the College Hill Corridor. The highly anticipated opening of the Lofts, which also houses Barnes and Noble/Mercer University Bookstore and apartments for 117 students, culminates the collaboration between the University and Sierra Development. The ceremony also served as the official opening for three of the Lofts retailers – Designer Tan, Fountain of Juice and Margaritas at Mercer Village.

For the fifth straight year, Mercer enrolled a record number of students for fall 2011. The University-wide student population increased 1.2 percent with 8,336 students enrolled, topping 8,300 for the first time.

On Nov. 11, the University broke ground and unveiled plans for its new football and lacrosse complex during a Homecoming weekend ceremony. In recognition of the lead gifts for the complex, President Underwood announced four major components of the project:

- The Homer and Ruth Drake Field House
- The William H. Anderson II Family Field
- The Marshall and Jane Butler Family Plaza
- The Tony and Nancy Moye Family Football and Lacrosse Complex.
In December, the Center for Collaborative Journalism – a new model for journalism education designed to increase and strengthen local reporting by bringing journalists to work together with university students in a unique, joint newsroom in the College Hill Corridor – was announced. Professionals from Mercer students will work alongside journalists at The (Macon) Telegraph and Georgia Public Broadcasting to learn and employ digital-age storytelling skills to meet Central Georgia’s information needs. The collaborative effort was made possible by $4.6 million in grants from Knight Foundation.

2012 Mercer joined 24 institutions across the country as a participant in the prestigious Stamps Scholars Program, funded by the Stamps Charitable Foundation Inc. Initially, five entering freshman will be designated as Stamps Scholars and receive the full cost of attendance, plus a $16,000 stipend over four years for enrichment activities, such as study abroad or undergraduate research. When the program is fully implemented, 10 members of each Mercer freshman class will be designated as Stamps Scholars.

Longtime Cooperative Baptist Fellowship Executive Coordinator Dr. Daniel Vestal was named to lead the University’s new Eula Mae and John Baugh Center for Baptist Leadership, which is being endowed with a $2.5 million grant from the Eula Mae and John Baugh Foundation. The Baugh Center will foster research and learning in Baptist history, theology, ethics and missiology, partnering with the James and Carolyn McAfee School of Theology, the Cooperative Baptist Fellowship, the American Baptist Historical Society, as well as Mercer’s Center for Theology and Public Life and other organizations and programs.

The University announced in February plans to partner with The Medical Center and St. Francis Hospital to establish a Columbus campus for its School of Medicine. Columbus joins Macon – where the School was established in 1982 to prepare physicians for rural and medically underserved areas of Georgia – and Savannah in hosting campuses for the medical school. The Mercer School of Medicine will place up to 80 third- and fourth-year medical students at the Columbus Campus, beginning in the summer of 2012.

A landmark season for the men’s basketball team resulted in the Collegeinsider.com Championship in a hard-fought 70-67 win at Utah State. Mercer’s victory secured the team’s spot in history as the Atlantic Sun Conference’s first team to capture a post-season crown. The 2011-2012 team rewrote several school records including wins (27), points scored and blocks. Mercer’s first basketball team to win a post-season non-conference win earned home victories over Tennessee State and Georgia State before hitting the road to finish the historic run with wins at Old Dominion and Fairfield before the electrifying championship battle at Utah State.

In April, the University lost a prominent alumna with the passing of Dr. Leila H. Denmark at the age of 114. She was the world’s oldest practicing pediatrician until her retirement in 2001 at the age of 103. At her death, she was the world’s fourth-oldest verified living person in the world.

A $1 million gift from Macon cardiologist Dr. Chuck Hawkins and his wife, Kathy, to benefit the Mercer basketball program was recognized later that month with the arena housed within the University Center renamed “Hawkins Arena.”

The Board of Trustees authorized establishment of the Mercer University Health Sciences Center, a multi-campus academic health center encompassing the School of Medicine, College of Pharmacy and Georgia Baptist College of Nursing, as well as the creation in July 2013 of a new College of Health Professions. The Health Sciences Center will enroll more than 1,700 students, employ more than 400 full-time faculty and staff, and graduate more than 500 physicians, nurses and nurse educators, physician assistants, pharmacists, physical therapists, family therapists, public health professionals and biomedical scientists each year. Dr. Hewitt W. (Ted) Matthews, longtime dean of the College of Pharmacy and Health Sciences, was named senior vice president for health sciences and will oversee the new Center.
The first School of Medicine commencement on the Savannah Campus was held May 5 with 38 graduates earning their M.D. degrees.

In July, the first five Stamps Leadership Scholars, funded by the Stamps Family Charitable Foundation, were announced. Mercer is one of only 25 universities in the country to participate in the program.

A $1 million grant from Macon's Peyton Anderson Foundation was announced to fund an innovative newsroom in Mercer's Center for Collaborative Journalism, a partnership involving the University's Journalism and Media Studies Department, The Telegraph and Georgia Public Broadcasting. The Telegraph's editorial staff moved into the newly-named Peyton Anderson Newsroom.

In September, Mercer dedicated the Center for Collaborative Journalism, located on the first floor of the recently completed Phase II of the Lofts at Mercer Village, in conjunction with the fall meeting of the University's National Journalism Advisory Board. Supported by $5.6 million in grants from the John S. and James L. Knight Foundation and Peyton Anderson Foundation, the Collaborative seeks to bring a new model to journalism education.

In November, the University dedicated the Emily Parker Myers Admissions and Welcome Center at the corner of Winship Street and Montpelier Drive. The building is named in honor of Myers, who was one of the longest serving administrators in University history, serving as senior vice president for university advancement and external affairs when she retired in 2008.

The Board of Trustees, at its November meeting, gave the green light for construction to begin on Cruz Plaza, to transform the appearance of the central part of the Macon Campus from the University Center to the Historic Quad and from the Greek Village past Tarver Library. Milton L. Cruz, his wife Aileen, father Juan L. Cruz Rosario and sister Zoraida Cruz Torres provided the lead gift for the project. An official groundbreaking was held Dec. 11, 2012.

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In 2013, one of Mercer’s most accomplished graduates, the man known by many as “Sambo,” died at the age of 90. Dr. Ferrol A. Sams, Jr. penned eight books, including a trilogy of works featuring Porter Osborne Jr., a character largely based on Dr. Sams’ own boyhood in Fayette County. Generations of Mercerians have been inspired by the accounts of his exploits while at Mercer in The Whisper of the River.

Mercer University Presidents

In the course of its history, Mercer University has had 24 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
Archibald John Battle ................................................................. 1872-1889
Gustavus Alonzo Nunnally .......................................................... 1889-1893
John Edgerton Willet, Acting President ................................. 1893-1893
James Burton Gambrell .............................................................. 1893-1896
Pinckney Daniel Pollock ............................................................... 1896-1903
William Heard Kilpatrick, Acting President ..................... 1903-1905
Charles Lee Smith ................................................................. 1905-1906
Samuel Young Jameson ............................................................. 1906-1913
James Freeman Sellers, Acting President ....................... 1913-1914
William Lowndes Pickard ............................................................ 1914-1918
Rufus Washington Weaver ....................................................... 1918-1927
Andrew Phillip Montague, Acting President ....................... 1927-1928
Spright Dowell ................................................................. 1928-1953
George Boyce Connell .............................................................. 1953-1959
Spright Dowell, Interim President ........................................... 1959-1960
Rufus Carrollton Harris .............................................................. 1960-1979
Raleigh Kirby Godsey ................................................................. 1979-2006
William D. Underwood ............................................................ 2006-present

Mercer University Profile

As one of America’s oldest and most distinctive institutions of higher learning, Mercer University’s mission is to teach, to learn, to create, to discover, to inspire, to empower and to serve. In fulfilling this mission, the University supports undergraduate, graduate, and professional learning, as well as basic research and its application in service to others. Founded by Baptists in 1833, Mercer is an independent university that remains grounded in a tradition that embraces freedom of the mind and spirit, cherishes the equal worth of every individual, and commits to serving the needs of humankind.

With more than 8,300 students enrolled in 12 schools and colleges on campuses in Macon, Atlanta and Savannah, Mercer has a strong presence in Georgia. However, its more than 68,000 alumni are making important contributions to their professions and communities around the world.

Mercer is consistently ranked among the nation’s leading institutions by such publications as U.S. News & World Report, which named the University the No. 1 value in the South in 2012 and No. 6 on its list of “up-and-coming” schools.

Academic Divisions

College of Liberal Arts (Macon): The oldest of the University’s academic units, the College remains the cornerstone of Mercer’s educational programs. The College offers an array of baccalaureate programs in the humanities, fine arts, sciences and social sciences.

Walter F. George School of Law (Macon): Founded in 1873, Mercer’s Law School is one of the oldest law schools in the United States and the first in the state of Georgia accredited by the American Bar Association. Its innovative Woodruff Curriculum – which focuses on ethics and practical skills – earned the Gambrell Professionalism Award from the A.B.A. for its “depth of excellence.”

Eugene W. Stetson School of Business and Economics (Macon, Atlanta, Douglas County, Savannah): The School offers undergraduate and graduate (B.B.A., M.B.A.)
degrees in Macon and Atlanta, the M.B.A. in Savannah and the B.B.A. degree in Douglas County. The School holds the highest level of accreditation for business education by AACSB International – the Association to Advance Collegiate Schools of Business.

**School of Engineering (Macon):** Mercer's innovative and academically challenging engineering-related programs provide students with a comprehensive education, featuring a solid foundation in mathematics and sciences, a core engineering curriculum, a range of courses in engineering specialties and a strong emphasis on communication technologies. The School of Engineering marked its 25th anniversary in 2010 and continues to be ranked by U.S. News & World Report as one of the top three master's degree-level engineering schools in the Southeast.

**Tift College of Education (Macon, Atlanta, Savannah, Regional Academic Centers):** The College prepares more professional educators than any other private college or university in Georgia. It offers baccalaureate and graduate degrees. Guided by the conceptual framework of the “Transforming Educator,” Tift College is dedicated to preparing effective teachers and educational leaders who aspire to grow professionally throughout their careers, while also seeking to transform the lives of students.

**James and Carolyn McAfee School of Theology (Atlanta):** Established in 1996, the School brings Jesse Mercer's founding vision of providing students with a classical and theological education full circle as it prepares students for the ministry.

**College of Continuing and Professional Studies (Macon, Atlanta, Regional Academic Centers):** The College offers undergraduate and graduate programs to working adults seeking professional advancement or transition and leadership roles in and beyond their communities. The College provides students with distinctive, multidisciplinary programs that integrate theory and practice, liberal learning and professional education, and knowledge and experience.

**Townsend School of Music (Macon):** The School is nationally recognized for its artist faculty, award-winning students, wide range of performance ensembles and state-of-the-art facilities. Specialized music programs include the Townsend-McAfee Institute for Graduate Church Music Studies and the Robert McDuffie Center for Strings.

**Division of Library Services (Macon, Atlanta, Savannah, Regional Academic Centers):** The mission of Mercer's libraries is to serve as learning-centered gateways of information resources through robust collections and innovative, technology-rich patron services to support the educational endeavors of the University community.

**Mercer University Press (Macon):** Since its establishment in 1979, Mercer Press has published more than 1,200 titles, generally in the areas of Southern history, philosophy, religion and regional studies. The Press holds membership in the Association of American University Presses.

**Mercer Engineering Research Center (MERC) (Warner Robins):** Founded in 1987, MERC provides engineering research services to private industries and government agencies, including the Department of Defense. Since its inception, MERC has exceeded $300 million in contract revenue.

**Mercer Health Sciences Center**

**School of Medicine (Macon, Atlanta, Savannah, Columbus):** The School was established in 1982 to educate physicians and health professionals to meet the primary care and health care needs of rural and medically underserved areas of Georgia. The School of Medicine currently operates two four-year campuses. Following their second year, students participate in core clinical clerkships at the School's primary teaching hospitals: Medical
Center of Central Georgia in Macon, Memorial University Medical Center in Savannah, and The Medical Center and St. Francis Hospital in Columbus.

**College of Pharmacy (Atlanta):** For more than a century, the College has maintained a tradition of excellence and a national reputation for producing leaders in the health care profession and has made notable contributions to the fields of pharmacy and health sciences. Mercer is ranked as the No. 4 private pharmacy school in the United States and among the top private and public pharmacy schools.

**Georgia Baptist College of Nursing (Macon, Atlanta):** Nationally recognized Georgia Baptist College of Nursing, the oldest nursing program in Georgia, is grounded in its heritage of educating students to provide superior nursing care. All undergraduate nursing students are members of the National Student Nurses Association, thus providing them with superior leadership and professional development opportunities.

**College of Health Professions (Macon, Atlanta):** The College of Health Professions became operational in 2013. The new College is comprised of three departments: Physical Therapy, Physician Assistant Studies, and Public Health. The College offers the doctoral-level physical therapy program, the master's-level physician assistant program, and the master's-level public health program. The Department of Physical Therapy offers an Orthopaedic Manual Physical Therapy residency program and a Neurologic Physical Therapy residency program. The Department of Physician Assistant Studies offers an Advanced Cardiology residency program.

**Athletics**

Mercer is the only private university in Georgia to compete in Division I of the National Collegiate Athletic Association. A founding member of the Atlantic Sun Conference, Mercer fields teams in baseball, basketball, cross country, golf, lacrosse, soccer and tennis for men, and basketball, tennis, softball, soccer, volleyball, sand volleyball, cross-country and golf for women. For the 2011-2012 academic year, the cumulative grade point average for student athletes was 3.264. In fall 2013, Mercer will resume competition in football as a member of the non-scholarship NCAA Division I Pioneer Football League. Women's track and field will become a varsity sport beginning in the 2013-2014 school year and women's lacrosse will begin in spring 2015.

**Accreditation**

In 1837, by Act of the General Assembly of the State of Georgia, the Executive committee of the Georgia Baptist Convention was given the power “to establish and endow a collegiate institution, to be known by the name of Mercer University.”

Mercer University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award the baccalaureate, master's, and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or at www.sacscoc.org or call (404) 679-4500 for questions about the accreditation of Mercer.

The National Collegiate Athletic Association has certified Mercer University. The website is www.ncaa.org.

The Stetson School of Business and Economics is accredited by AACSB International -- the Association to Advance Collegiate Schools of Business, 777 South Harbour Island Boulevard, Suite 750, Tampa, FL 33602; (813) 769-6500; www.aacsb.edu.

In the College of Continuing and Professional Studies, the Master of Science degree in Clinical Mental Health Counseling is accredited by the Council for Accreditation of Counseling and Related Educational Programs, 1001 North Fairfax Street, Suite 510,
Two accrediting bodies accredit programs in the College of Liberal Arts. The American Chemical Society accredits the baccalaureate chemistry program, 1155 Sixteenth Street NW, Washington, DC 20036; (800) 227-5558; www.acs.org. The Bachelor of Science degree in Computer Science is accredited by the Computing Accreditation Commission of ABET, www.abet.org.

Mercer University’s professional education programs are accredited by the National Council for Accreditation of Teacher Education (NCATE; www.ncate.org) and approved by Georgia’s Professional Standards Commission. This accreditation includes all initial teacher preparation programs and all advanced educator preparation programs offered on all Mercer campuses and centers. Contact NCATE at 2010 Massachusetts Avenue NW, Suite 500, Washington, DC 20036 or call (202) 466-7496.

In the School of Engineering, the Bachelor of Science in Engineering degree program is accredited by the Engineering Accreditation Commission of ABET, www.abet.org.

The College of Health Professions houses three accredited programs. The Physician Assistant program is accredited by the Accreditation Review Commission on Education for Physician Assistant (ARC-PA), 12000 Findley Road, Suite 150, Johns Creek, GA 30097; (770) 476-1224; www.arc-pa.org. The Master of Public Health program is accredited by the Council on Education for Public Health, 1010 Wayne Avenue, Suite 220, Silver Spring, MD 20910; (202) 789-1050; http://ceph.org. The Doctor of Physical Therapy program is accredited by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association, 1111 North Fairfax Street, Alexandria, VA 22314; (703) 684-2782; www.capteonline.org.

The Juris Doctor and Master of Laws programs in the Walter F. George School of Law are accredited by the American Bar Association, 312 North Clark Street, Chicago, IL 60654; (312) 988-5000; www.americanbar.org.

The School of Medicine houses two accredited programs. The Doctor of Medicine is accredited by the Liaison Committee on Medical Education (LCME). LCME (www.lcme.org) is jointly sponsored by the Association of American Medical Colleges (2450 N. Street, NW, Washington, DC 20037; (202) 828-0596) and the Council on Medical Education of the American Medical Association (515 North State Street, Chicago, IL 60654; (312) 464-4933. The Marriage and Family Therapy program is accredited by the Commission on Accreditation of Marriage and Family Therapy Education, American Association for Marriage and Family Therapy, 112 South Alfred Street, Alexandria, VA 22314; (703) 838-9808; www.aamft.org.

The baccalaureate and master’s music programs of the Townsend School of Music are accredited by the National Association of Schools of Music, 11250 Roger Bacon Drive, Suite 21, Reston, VA 20190; (703) 437-0700; www.nasm.arts-accredit.org.

The Bachelor of Science in Nursing, the Master of Science in Nursing, and the Doctor of Nursing Practice programs in the Georgia Baptist College of Nursing are accredited by the Commission on Collegiate Nursing Education, One Dupont Circle, NW, Suite 530, Washington, DC 20036; (202) 887-6791; www.aacn.nche.edu/ccne-accreditation.

The Doctor of Pharmacy program in the College of Pharmacy is accredited by the Accreditation Council for Pharmacy Education, 135 S. LaSalle Street, Suite 4100, Chicago, IL 60603; (312) 664-3575; www.acpe-accredit.org.

The Master of Arts in Christianity, the Master of Divinity, and the Doctor of Ministry programs in the James and Carolyn McAfee School of Theology are accredited by the Association of Theological Schools, 10 Summit Park Drive, Pittsburgh, PA 15275; (412) 788-6505; www.ats.edu.
Grants and Contracts Office

The Grants and Contracts Office (GCO) at Mercer University is the centralized administrative office that oversees the entire award process from the proposal submission to the award close out. This includes proposals and awards in support of any sponsored program to include Research, Instruction, Training, and Community Service Projects. GCO has an enhanced database that houses the University's grant and contract information.

GCO assists faculty in all aspects of the pre-award process. It assists faculty in finding funding opportunities and provides general support to faculty for the preparation and submission of proposals including assistance with budget preparation and review. GCO is responsible for coordinating the routing of proposals for administrative review and approval prior to submission of applications to sponsoring agencies.

GCO manages all aspects of post-award administration. It is responsible for establishing accounts, managing budgets, authorizing expenditures, ensuring compliance with University policy and agency guidelines, collecting time and effort certifications, invoicing and reporting. Additional information can be found at: http://www2.mercer.edu/Grants/default.htm

International Programs at Mercer University

The Office of International Programs (OIP) is the central administrative unit of international education. The OIP manages the study abroad program, student and faculty exchange programs, international student and scholar services, and courses in the English Language Institute (ELI) on the Atlanta campus. The OIP is also responsible for managing the University's relationships with foreign universities and other overseas 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 catalog.
Entering The University

Admission from Secondary Schools

Mercer University seeks to admit students who have outstanding academic credentials and personal characteristics indicating they will contribute to the diversity and richness of the campus, both inside and outside of the classroom. Applicants’ records should reflect a strong commitment to their educational goals, a sense of responsibility to themselves and their communities, and a promise of growth, intellectually and socially.

Applicants are considered on the strength of their academic record, standardized test scores, character and leadership potential, co-curricular and service-related activities.

Admission to the University normally requires graduation from an accredited, secondary school with a minimum of sixteen units of high school credit including English (4 units), mathematics (4 units), laboratory science (3 units), social science/history (3 units) and foreign language (2 units). Applicants are expected to be in good academic and disciplinary standing at their current or last institution attended.

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

1. Attendance at Mercer’s Summer Program for new students to demonstrate their college preparedness. Upon enrollment in the Summer Bridge Program and payment of all tuition and fees, Bridge students may be tentatively registered for fall classes. Students must earn a C or better in all Summer Bridge classes to be admitted for the fall term, and students who are not successful in the Bridge Program will be unregistered from fall classes.

2. Reconsideration for admission through submission of additional academic information (new SAT/ACT scores, high school transcripts).

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.)
• Personal Statement

Students may apply to Mercer University’s traditional undergraduate programs through the Early Action Deadline (November 1) or the Regular Decision Deadline (April 1). Applications are accepted at any time, but evaluations do not begin until September of an 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). An applicant is notified of his/her admission or denial within two to four weeks of the completed application having been received and processed by the Office of University Admissions.

Special Admissions

Home-Educated Applicants

The University works with home-schooled applicants and has established methods to evaluate these students in a manner comparable to other freshman applicants.

For traditional freshman applicants, Mercer requires students to complete a college preparatory curriculum (CPC) from an accredited high school in order to be considered for
admission. 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 a portfolio. The University uses the SAT 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, to select the most qualified students for admission.

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

Advance Admission

Advance admission may be granted to mature, rising high school seniors who have above-average SAT/ACT scores and have attained exceptional achievements in high school course work. Candidates should follow the normal application procedure and submit three letters of recommendation. The letters must be from a student's principal/headmaster, guidance counselor, and parent(s) or guardian(s).

Letters from high school administrators must state the requirements that a student must fulfill at Mercer in order to receive a high school diploma. A letter from the parent(s) or guardian(s) must give 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.

Dual High School Enrollment

Dual high school enrollment may be granted to rising high school seniors who meet the University's and their individual high school's requirements for admission. The student must submit an application for dual enrollment, transcripts, SAT or ACT scores, and recommendations from their high school principal, guidance counselor, and parents. If the applicant is requesting an upper-level college course, a letter of recommendation from the high school's department chair in that area of study is required as well.

Applicants will be evaluated by the Office of University Admissions on their credentials as well as their letters of recommendation. Notification of acceptance will be sent through the high school guidance counselor's office.

Applicants must also file a FERPA form and immunization form with the Office of University Admissions to be admitted.

Applicants with General Education Diploma (GED)

In limited circumstances, applicants may be considered for admission if they have a General Education Diploma. These applicants must meet the following requirements to be considered 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 1060 on the critical reading and math sections of the SAT with at least 500 on each section of the SAT or corresponding converted scores from the ACT. A minimum ACT composite score of 23 will also be accepted.

Enrollment Deposit

To reserve a place in the in-coming class, accepted students should submit a $500 deposit by May 1. The deposit is refundable until May 1 for those students admitted to the summer or fall semesters. The refund deadline for the spring semester is December 1. Students may request a refund of a deposit before the stated deadline by submitting a written request to the Office of University Admissions. Deposits made after the stated refund deadline are automatically non-refundable.

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 examinations administered by the Educational Testing Service. In certain cases, a score of 4 or 5 will allow a student to receive credit for two courses. Applicants should request that 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 or above the 50th percentile on the general and/or subject exams. For more information on 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 a student's final high school transcript or from the International Baccalaureate Office.

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." An 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 through a letter addressed to the dean of the school/college of the student's 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 catalog under which they originally enrolled. However, students who leave the University and...
Students who seek readmission after ten years must reapply through the Office of Admissions.

* Students who seek readmission after five years must secure new transcripts from all other institutions attended, including those institutions attended prior to their initial enrollment at Mercer.

Applicaiton Process for Transfer Applicants from Other Colleges and Universities

Candidates for transfer admission from a regionally accredited college or university should submit an application for admission, 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:

<table>
<thead>
<tr>
<th>Semester</th>
<th>Deadline</th>
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<tbody>
<tr>
<td>Summer Semester</td>
<td>May 1</td>
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<tr>
<td>Fall Semester</td>
<td>July 1</td>
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<tr>
<td>Spring Semester</td>
<td>December 15</td>
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</tbody>
</table>

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 of college credit earned must submit official high school transcripts and official SAT or ACT score reports.

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. Students requesting exceptions to this policy may be asked to submit additional documentation or enter the University on a probationary status, in which case 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 each student. Those who intend to enroll should submit enrollment deposits of $300 to hold their spaces in the entering class.

This deposit is refundable until May 1 for those students admitted to the summer and fall semesters. The refund deadline for the 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 made after the stated refund deadline are automatically non-refundable.

Course work with a grade of C- or better that was completed 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, and not less than one fourth of the minimum credits required for the degree, 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 number of credits accepted from this program is 9 semester hours. The maximum number of credits 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 of combined off-campus and extension work is allowed; 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 two categories, as described as follows:

Transient Students

Candidates currently enrolled and in good standing at another college or university may be admitted as transient students. A letter from 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.

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 Information” section of this catalog. The audit fee is listed in the “Financial Information” section of the catalog.

International Students

Students from countries other than the United States are an important part of the University community and are encouraged to apply. Some scholarships for international students are available to full-time undergraduate student studying on the Macon Campus.

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 the intended date of enrollment. An application fee of $50 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 of all students who are not citizens of the United States, for study at Mercer University. 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 minimum composite TOEFL score is 80 IBT (internet based TOEFL), 213 CBT (computer based TOEFL), 550 PBT (paper based TOEFL) and minimum IELTS score is 6.5. Qualified students with scores below these minimums, or who have no TOEFL or IELTS score, may be conditionally admitted contingent upon their successful completion of English Language Institute (ELI) course(s) on the Atlanta campus. 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.

Admission Standards for International Undergraduate Students

Full Admission

- Official high school transcript with official translations in English
- Proof of English proficiency as demonstrated by acceptable SAT or ACT test scores ([official TOEFL scores of 80 IBT (internet based TOEFL), 213 CBT (computer based TOEFL), or 550 PBT (paper based TOEFL)] or IELTS score of 6.5 or successful completion of Mercer University English Language Institute course

Personal interviews may be required.

Conditional Admission

Students who are accepted conditionally must complete the English Language Institute and successfully complete the Bridge Program with a grade point average of 2.5 or higher. To be accepted conditionally, students must submit the following.

- Official high school transcript with official translation in English
- Letter in English describing career plans and goals
- Letters of recommendation in English (maximum of three) from former teachers, colleagues, or professionals who can comment on the student's academic potential

Transfer Students

Students who have completed at least one year of university-level work are not required to submit high school transcripts but are required to submit for evaluation official copies of all university transcripts with official copies in English. Depending upon the evaluation of these transcripts, students may be required to complete certain courses in the Bridge Program.

Bridge Program for International Students

The Bridge Program at Mercer University assists international students in further developing the mathematics, communication, and written skills needed for university-level course work. Classes are offered on the Cecil B. Day Campus in Atlanta through the College of Continuing and Professional Studies. Undergraduate students who are accepted conditionally into a Mercer program or a prospective graduate student who needs additional language instruction can take courses through the Bridge Program. Students enrolled in the program must complete all of the following requirements all of which carry academic credit:
1) Assessment of mathematics proficiency is accomplished through use of an online assessment tool to determine the level of functional knowledge in algebra and pre-calculus, including analytic trigonometry. Based on the results of the proficiency assessment exams, students may be exempt from taking one or more of the following courses:

- MATH120. Basic Algebra
- MATH130. Topics in Precalculus
- MATH150. Analytic Trigonometry *

*Exemption may apply for certain majors.

For additional information, please contact the Bridge Program advisor at (678) 547-6029.

2) Students enrolled in the Bridge Program must also complete the following courses:

- FDLS110. The Culture of the University
- FDLS130. Language and Communication *
- ENGL100. Critical Thinking, Reading, and Writing
- COMM 171. Introduction to Public Speaking

*Students enrolled in FDLS 130 must receive a grade of C or higher in order to register for LBST 175 and LBST 180.

The Bridge Program provides quality instruction by faculty members with expertise in teaching English as a second language. Emphasis is placed on critical thinking, oral presentations, writing skills, problem solving, and contextual scientific reasoning.

Additionally, students gain an appreciation for flexible and creative scheduling of courses allowing them to develop a stronger presence at Mercer University. Therefore, students will benefit from engaging native speakers of the English language in both the academic and popular cultures.

Additional requirements may apply as determined by individual colleges/schools at Mercer University.

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 CERTIFIED English translations 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 outside credential evaluations, should submit official transcripts in their native language in addition to official transcripts in English.

If a student wishes to transfer credits earned at a foreign institution to his/her record at Mercer, the student must supply the Registrar’s Office with an official copy (still sealed in the original envelope) of a credit evaluation from a reputable U.S. evaluation service; the evaluation should include all of the credits that the student wishes to transfer to Mercer. Once the Registrar’s Office receives an official evaluation, the student’s foreign credits will be reviewed to see if they are eligible for transfer to the student’s Mercer degree. Please note that the registrar makes the final decision when accepting credits from a foreign institution.
Deposits and Insurance

Accepted international students must pay the appropriate fees, which include a $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

The Mercer University Student Health Form is required and must be signed by a physician or other health care provider, and stamped with the provider's name and address. Students are encouraged to keep a photocopy of this completed form for their personal records.

All students born after 1956 must provide a statement of immunization 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 (Rubella) vaccine, two doses of Mumps vaccine, and one dose of Rubella are required. You must have been at least 12 months old when the first vaccine dose was received.

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, or Rubella, the student may register following documentation of the first dose of MMR, with the second to follow in 30 days, if required.

Tuberculosis screening (within the past year) is required of all new students. Students at risk for TB will be required to have a PPD skin test (Mantoux). The Tine tuberculosis test 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 after the positive PPD) to be eligible to register. A physician should evaluate individuals with a positive tuberculosis skin test.

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 doctors' offices, health departments, and schools. Students should make copies of the completed immunization form for their own files, and then mail, fax, or email the original forms to the Student Health Center. Do not rely on health care providers, family members, or other colleges to mail the forms.

Exemptions from compliance with the immunization policy include:

1. Religious exemption, written on letterhead stationery, signed by a religious official and notarized.

2. Medical exemption, written on office stationery, signed and stamped by a health care provider. The letter should state the reason for the exemption, and whether the exemption is permanent or temporary.

Immunizations for the following diseases are recommended, but not mandatory: chickenpox (varicella), 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.
Some academic programs have additional immunization requirements. Students are advised to check with their College/School program for any additional requirements.

For more information, contact the Student Health Center at 1508 College Street, Macon, Georgia 31207, by phone at (478) 301-2696, fax at (478) 301-2116, or email shc-macon@mercer.edu. The immunization form can be found at www.mercer.edu/shc.

**Health Insurance**

Mercer students must maintain primary insurance coverage. Students, except those enrolled in the Regional Academic Centers or distance learning programs, are automatically enrolled in the University sponsored student health plan. There is a charge for this coverage. To have the charge removed from the Mercer account, a student must show evidence of enrollment in a personal insurance 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 Affairs and Campus Life

Student life is a vital part of the college experience. When extracurricular activities, programs, and organizations are tied closely to a student's academic experience, the impact on the student's learning can be profound. The Division of Student Affairs, led by the Vice President and Dean of Students, is charged with overseeing a majority of these extracurricular programs, and includes the following departments: Counseling and Psychological Services, Housing and Residence Life, Recreational Sports and Wellness, Campus Life (including Greek Life), Career Services, Disability Support Services, Student Health Center, and Student Support Services. Student Affairs offers a wide range of resources that promote intellectual, cultural, social, vocational, physical, psychological, and spiritual growth.

The Office of the Vice President and Dean of Students is located on the third floor of the Connell Student Center and operates as the primary location for information on student life. The Office of Judicial Education is also located in this office and is charged with implementing the Student Code of Conduct and adjudicating student conduct violations. Students are expected to abide by all rules and regulations of the University and to uphold the community standards of the institution. To obtain additional information on these policies and procedures, or to merely request a review of any non-academic student issue or grievance, please contact this office. For additional information: www.mercer.edu/studentaffairs.

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. Student government serves as the official voice of the students and as a liaison with the administration and faculty.

The executive branch of the student government is comprised of eight student body officers. The standing committees of SGA are: Academic Affairs, Student Life and Organizational Affairs, Fiscal Affairs, Campus Safety and Improvements, Contract Services, Macon Connections, 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 from each class and five senators at large. The senate represents the interests of students in social and academic matters, and funds projects and programs of benefit to the student body and the larger community. SGA encourages all students to attend senate meetings and listen to online podcasts at www.sga.mercer.edu.

Academic Integrity

Mercer University strives to be a Community of Respect that includes respect for academic integrity. Students operate under an honor system and will exhibit the values of honesty, trustworthiness, and fairness regarding all academic matters. Students, faculty, and staff are expected to report any violations in the forms of, but not limited to, cheating, plagiarism, and academic dishonesty to the honor council appropriate for their campus and program.

Procedures related to Honor Systems and Academic Integrity are outlined in the specific handbooks for each campus and can be found on the Provost website at http://provost.mercer.edu/handbooks.
The Honor System

Academic integrity at Mercer is maintained through the Honor System. The Honor System at Mercer imposes on each student the responsibility for his or her own honest behavior and requires each student to report any violations of the Honor Code about which he or she has information. The Honor System was instituted in 1954 and has been in operation since that time. Its success has been the result of students' respect and concern.

An undergraduate student honor council administers the Honor System for undergraduate students. The Honor System for graduate students is administered by an honor committee that is governed by policies established by the Graduate Council of Mercer University. Decisions and sanctions of the Honor Council and Honor Committee are binding, but may be appealed to the President of the University.

By the act of entering Mercer University, each student consents to participate fully in the Mercer Honor System. Furthermore, each student is personally responsible for knowing the rights and obligations set forth by the Honor System. A student is also expected to cooperate with all proceedings related to 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 that complement Mercer's educational mission. The student run committees provide programs such as Mercer Madness, Homecoming, Bearstock, comedians, Midnight Movies, as well as opportunities for students to showcase their talents. For additional information: www.mercer.edu/quadworks.

Student Organizations

The Mercer community has more than 120 active student organizations. These organizations range from departmental, religious, or club sport to special interest, governmental and social. A full list of organizations, including contact information, is available on the Campus Life website. Student organizations and community opportunities are showcased during Bear Fair. For more information: www:studentaffairs.mercer.edu/campuslife/studentorgs.cfm.

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

Media Relation Student Organizations. Students publish The Cluster (the campus newspaper) and the Dulcimer (the University's literary magazine). Mercer also has a student-run radio station, and a closed-circuit television station, known as Mercer 99, which shows movies and locally created content.

For more information about any of these student organizations, contact the Office of Campus Life at (478) 301-2868.

Honor Societies

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. 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.

A number of other nationally affiliated honor societies have been established: Beta Beta Beta (biology), Delta Sigma Pi (business), Kappa Delta Epsilon (education), Phi Alpha Theta (history), Pi Sigma Alpha (political science), and Psi Chi (psychology).

For more information about any of these student organizations, contact the Office of Campus Life at (478) 301-2868.

Leadership and Volunteerism

The Office of Campus Life coordinates a variety of leadership and volunteerism opportunities for students. The Center for Leadership and Volunteerism, which is housed in Campus Life, offers students the chance to become involved in the Macon community through Service Saturdays, tutoring programs and other campus service projects throughout the year. The Center also works with student organizations and community organizations to provide volunteer experiences both on and off campus. Leadership opportunities for students include retreats, workshops, lectures and luncheons. New to Campus Life is the Student Leadership Series which is open to all students on the Macon campus that have an interest in developing leadership skills and knowledge. For more information please visit http://studentaffairs.mercer.edu/campuslife/.

Recreational Sports and Wellness

The Recreational Sports and Wellness Office is located in the University Center and oversees five programs: Aquatics, Club Sports, Fitness/Wellness, Intramural Sports, and Mercer Outdoors. Each of these programs gives students, faculty, and staff the opportunity to participate in a variety of activities.

Mercer Aquatics manages the use of the two pools on the Macon campus. The University Center Pool is located on the lower level of the Fitness Center and is open for lap swims and group aquatic exercise.

Plunkett Pool, located behind Plunkett Hall, is open to the Mercer community for recreational use. Students, faculty, and staff members can use the pool for themselves and their families by presenting a valid Bear Card. Children under the age of 16 are not allowed to enter the pool area without an adult and must be supervised at all times. Plunkett Pool is a seasonal facility and is open from May to September.

Sport Clubs offer unique opportunities to participate in recreational activities. These clubs are separate from the intramural programs offered at Mercer and are competitive and/or recreational in nature. Several of the clubs’ activities are not offered through Mercer's regular recreational programming, so they give the Mercer community a unique opportunity to participate in and learn something new. Currently, there are twenty club sports on campus, and we encourage new clubs to form.

The Fitness/Wellness Program promotes health and wellness throughout the campus community by providing services, resources, and opportunities to actively engage students in healthy lifestyle behaviors. Activities offered include: a variety of group fitness classes; health promotion and educational programs on current health topics and trends; fitness incentive programs; individual wellness counseling; and personal training.

Intramural Sports provides a comprehensive and diverse program of competitive and recreational activities. The program reflects the needs and interests of currently enrolled students, faculty and staff members. More than thirty activities are offered featuring team sports, individual/dual sports, meets and special events.
Outdoor Adventures is committed to providing excellent travel opportunities that challenge self-perceived limits, are fun, and that build a strong appreciation for the natural environment. Small group wilderness experiences have a unique impact on the lives of our participants.

Employment opportunities – Recreational Sports and Wellness hires over 100 students per year for positions as lifeguards, group exercise instructors, intramural officials, personal trainers, scorekeepers, trip leaders, and ropes course facilitators. The benefits of working for Recreational Sports include flexible hours, a great atmosphere, leadership opportunities, the convenience of having a job on campus, and extra income.

For more information on Mercer Recreational Sports and Wellness, visit www.mercer.edu/recreation or call 478-301-2404.

Intercollegiate Athletics

The University provides programs of intercollegiate competition in men’s basketball, lacrosse, baseball, tennis, golf, soccer, cross-country, football, track and field, women’s basketball, tennis, soccer, softball, volleyball, cross-country, golf, and sand volleyball. Women’s lacrosse will be added as an intercollegiate sport in 2013-2014. Mercer is a Division I member of the National Collegiate Athletic Association (NCAA) and the Atlantic Sun Conference. Copies of the Equity in Athletics Disclosure Act and the annual NCAA Graduation Rate Report are on file in the Office of the Registrar.

Religious Life

Opportunities for significant spiritual growth are integral parts of Mercer University’s campus life. University Worship is provided for the entire Mercer community in Newton Chapel each Sunday evening. 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 religious traditions meet weekly in the center for inspiration and fellowship.

The following organizations are available: Baptist Collegiate Ministries, A.G.A.P.E. (All God’s Anointed People Evangelizing), Cooperative Student Fellowship, Reformed University Fellowship, Canterbury Episcopal Student Fellowship, Catholic Newman Ministry, Orthodox Christian Fellowship, Wesley Foundation, Young Life, and the Muslim Student Association.

For more information on campus ministries, please visit www.mercer.edu/ReligiousLife.

In addition, Mercer On Mission, an international service-learning program whose partners include several faith-based organizations is directed by the University Minister. For more information about Mercer On Mission, please visit www.mercer.edu/mom.

Counseling and Psychological Services

Counseling and Psychological Services (CAPS, located behind MEP residence hall) seeks to encourage students in their attainment of educational and personal goals by creating opportunities to develop self-knowledge and skills, and remediate difficulties within a welcoming and relaxed atmosphere. Services include individual and couples counseling, outreach programming, crisis intervention, and academic assistance. Consultation is provided to the Mercer community. Referrals to off-campus mental health service providers are made when appropriate and upon students’ request. CAPS also serves as a field placement site for undergraduate students, an internship site for Mercer’s MFT and Medical Psychology Ph.D. students, and sponsors AWARE, CAPS peer education program. For more information, visit the website at www.mercer.edu/counseling or phone 478-301-2862.
Career Services

Career Services provides support to students and alumni in the areas of career 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 BEARLINK. Career Services coordinates annual career days, 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.

Upward Bound

Upward Bound, funded completely by a grant from the U.S. Department of Education and sponsored by Mercer University, is a pre-college program for high school 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 component. Upward Bound is one of three Mercer University TRIO Programs.

Educational Opportunity Center

The Educational Opportunity Center (EOC), a program funded by a grant from the U.S. Department of Education, promotes postsecondary education among adults who qualify. An emphasis is placed on providing assistance with the postsecondary application process and with obtaining 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.

Disability Services

Mercer University is committed to making all of its programs, services and activities fully accessible to qualified students with disabilities. Students requesting to be recognized as a person with a disability or requesting accommodations for a diagnosed physical, medical, psychological or learning disability must first self-identify by registering with Disability Support Services. Appropriate and reasonable accommodations will be determined on a case-by-case basis upon review of the submitted documentation. Disability Support Services also offers voter registration information and assistance.

Please report any problems with physical access such as non-working elevators to Disability Support Services immediately. Students who believe they have been discriminated against or denied access to a program or service because of a disability should contact Carole Burrowbridge, Director of Disability Support Services. Further information on policies, procedures, and documentation requirements may be obtained by contacting Disability Support Services at 301-2778 or found on the web at: http://www.mercer.edu/disabilityservices.

Student Support Services

Student Support Services (SSS) is a program funded by a grant from the U.S. Department of Education that serves first generation, Pell-eligible and/or students with disabilities. The program is designed to increase the retention and graduation among underrepresented students at the college level. SSS participants receive services including personal and group counseling, academic advising/workshops, financial aid counseling, Freshman Grant Aid, mentoring and career/graduate school counseling as well as addition-
al tutoring, trips to career and professional school fairs and cultural activities. SSS is one of the three Mercer University TRIO programs. (478) 301-2686.

Minority Affairs

The Minority Affairs Office is committed to providing opportunities for Mercer University minority students to be actively engaged in the "Mercer Experience" and to develop a sense of community while at Mercer. Minority Affairs along with the Minority Student Success Committee sponsor an annual conference each spring. The services provided through the Minority Mentoring Program are: free tutorial assistance in most freshman courses; a personal mentor; academic, social and cultural workshops and trips; an early-arrival freshman retreat; and access to local minority professionals in the student's general area of study. The Minority Affairs Office also provides support and leadership to improving the campus culture for minorities. For more information, visit our website at http://www.mercer.edu/studentaffairs/minorityaffairs.index.shtm.

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. Beginning with the incoming freshmen class (Fall 2012), all freshmen, sophomore, and junior students (based on High School graduation date) under 21 years of age are required to live on campus and purchase a meal plan. Exceptions include those students living with parents or guardians within a reasonable commuting distance, (this includes the following counties: Bibb, Crawford, Houston, Jones, Monroe, Peach, Twiggs) and students who are married or are single parents. Resident students are required to sign a residence hall contract for the academic year. All Housing facilities are closed during the winter break. Applications for residence hall rooms and apartments are available through the Department of Housing and Residence Life website. For additional information about living on campus, please visit our website: http://studentaffairs.mercer.edu/housing.

Judicial Education

The Office of Judicial Education serves the Mercer University community by defining, interpreting, enforcing and educating students on the university's judicial policy and procedures while promoting intellectual growth, social responsibility, healthy behaviors, and respect for the community through its process. This Office adjudicates all non-academic violations of University rules and regulations by individual students, as well as student organizations. Students or organizations that violate these regulations are subject to sanctions ranging from written reprimand to suspension or expulsion. A description of the judicial process appears in the Lair and can be found at: http://studentaffairs.mercer.edu/judicial/.

Dining Services

Twenty-one (21) meals are served each week at the Fresh Food Company, which is Mercer University's on-campus restaurant. The Fresh Food Company, located in the Connell Student Center, offers all-you-care-to-eat buffet-style dining. Breakfast, lunch, and dinner are offered Monday through Friday from 7 a.m. – 8:30 pm. On Saturday and Sunday, a continental breakfast is served from 9 a.m. until 11 a.m., lunch from 11 a.m. until 2 p.m., dinner from 4:30 p.m. until 7 p.m. on Saturday and dinner from 4:30 p.m. until 8 p.m. on Sunday.

Bear Necessities is a convenience store carrying everyday goods like batteries, toothpaste, pain relief, candy, snacks, grab and go, and Starbucks coffee. The convenience store is located on the second floor of the Connell Student Center.
The University Center Food Court is another dining area on campus. Here, students will find Subway, Chick-fil-A, and Burger Studio, plus a large selection of “grab and go” items. To learn more about the food services available at Mercer, you may contact Food Services at (478) 301-2925 or on-line at Mercerdining.com

All freshmen and sophomores living in residence halls and apartments on campus are required to purchase a meal membership plan, Beginning with the incoming freshmen class of 2012 all freshmen, sophomore and junior students under 21 years of age living on campus are required to purchase a meal membership plan in accordance with Mercer University’s policy. The minimum meal membership required for students living on campus is as follows regardless of the style of campus housing: Freshmen: Unlimited Meal Membership Plan—Sophomore: 14 Meal Membership Plan and Juniors 10 Meal Membership Plan. Classification is determined by academic hours earned. Freshmen = 0 to 29 hours, sophomores 30 to 59 hours, Juniors 60 to 89 hours. Changes to meal plan assignments must be made in the first ten calendar days of the semester. In the event a contract release is approved students are subject to a $100.00 cancellation fee. There will be no refund of membership fees should a housing eviction occur.

To learn more about the various plans available and their specific costs, contact Auxiliary Services at (478) 301-2741 or online at www.mercer.edu/auxiliary

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 to 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 their Bear Bucks account. 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 Wells Fargo 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 Bucks account at the Bursar’s Office, on-line at bearcardoffice.com, at a value transfer station (VTS), or in the Office of Auxiliary Services. If the Bear Card is lost or stolen, it is invalidated immediately upon the report of the loss.

Telecommunications

In-Room telephone service is available to all students living on campus that includes a private line, call waiting, three-way calling and caller id. Please contact the Information Technology Help Desk at (478) 301-2922 for further information.

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; these 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 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. A student may be treated immediately by a nurse, referred to Urgent Care, or an appointment may be scheduled with a Student Health physician, or a physician outside of Student Health.

Located on the second floor of the Patterson Building, the Student Health Center is open Monday-Friday, 8 a.m.-12 noon and 1 p.m.-5 p.m. Call (478) 301-2696 for appointments or information.

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 patient.

Class Excuses: The Student Health Center does not provide medical excuses for missed classes, exams, or assignments. In the event that you need to miss class due to an illness, injury or an emergency, the Student Health Center recommends that you contact your professor, preferably before the class or exam takes place. You should speak with him/her in person, if possible, or via phone or email. If you are unable to reach your professor, be sure to leave your contact information (telephone number and email) so that he/she can reach you. All decisions about the impact of your absence on your grade, as well as any arrangements for making up work, rest with your instructors.

Immunization Policy: University health requirements are included in the “Entering the University” portion of this catalog.

General medical information is available on the Student Health Center web site at www.mercer.edu/shc.
Academic Services, Resources, and Activities

Orientation

The Office of Academic and Advising Services coordinates comprehensive orientation programs for all traditional undergraduate new students entering Mercer Macon campus. Summer Orientation gives new students and their families the opportunity to learn more about Mercer’s academic programs and campus resources. Students also meet with an academic advisor regarding course registration during this time. All incoming students are encouraged to attend Summer Orientation.

Fall Orientation begins several days prior to the start of classes and is mandatory for all traditional undergraduate new first-year students. During Fall Orientation, students acclimate to campus by attending academic meetings and social activities with their orientation group. The Office of Academic and Advising Services also coordinates orientation programs at the beginning of each semester for Mercer’s incoming transfer students on the Macon campus.

The Office of Academic and Advising Services

The Office of Academic and Advising Services provides programs and services to support the academic success of students. Located in Penfield Hall, staff members coordinate the advising of new students, provide academic progress reports, sponsor pre-professional and Sophomore Signature programs and coordinate the first-year student course, University 101: The New Student Experience. Additionally, the Office serves as an information, training, evaluation and resource center for campus academic advisors and instructors. Academic support is provided to all interested students each semester through academic counseling and end-of-semester academic intervention plans. The membership and programs of Phi Eta Sigma, the first-year student honor society, and the undergraduate Honors Program are coordinated by the Office.

Academic Resource Center (ARC)

The Academic Resource Center (ARC) provides tutoring, study space, and structured guidance on the Macon campus to help traditional undergraduate students improve their academic performance and excel in demanding courses. In addition to college study skills classes (LSK 185 and 186), individual tutors are available to assist students in major subject areas. The ARC also provides campus-wide coordination of Supplemental Instruction, an intensive group tutoring program for selected courses.

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 maintains an open-access lab with the following hours:
- Sunday: 2 p.m. – 3 a.m.
- Monday – Thursday: 8 a.m. – 3 a.m.
- Friday: 8 a.m. – 5 p.m.

All services are provided free of charge. For more information, visit the ARC website at http://www.mercer.edu/arc.
Practical Experience: Cooperative Education and Internships

Mercer University offers a variety of opportunities for its students 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 satisfactory standards 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 experiences in fields related to their majors. The level of responsibility and expertise required for a job increases to match a student's progress through the academic curriculum, thus assuring a stimulating, challenging employment situation. Salaries are established by individual employers and often increase as a 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 verification 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 are: a 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.

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

Library Services

The primary mission of Mercer University's libraries is to serve as a gateway of information resources by providing strong collections and innovative, technology-rich patron services to support the present and future educational needs of the University's 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** (http://libraries.mercer.edu) embraces its mission as a partner in Mercer University's educational enterprise, as symbolized by the library's motto, "Learning Happens Here." As a physical space and as a virtual presence, the library serves the information and research needs of Mercer's community.

Tarver Library, in Macon, primarily serves the Macon-based programs in the College of Liberal Arts, Tift College of Education, School of Engineering, Stetson School of Business, the College of Continuing and Professional Studies, and the Townsend School of Music. Tarver Library also serves as a major information resource for the Regional Academic Centers' programs, supplying books and articles via a courier service and electronic desktop delivery.

Occupied in 1989, Tarver Library was dedicated in 2000 in memory of Mercer alumnus Jack Tarver, a prominent journalist and businessman. The building seats 750 patrons and holds 500,000 volumes. Twenty-three group study rooms support collaborative work and learning activities. Computers and wireless connectivity are available for patrons to access the web-based catalog, databases, and full-text resources, including JSTOR, and Web of Knowledge. Mercer's students and faculty enjoy access, via their BearCards, to the 24-hour study room on the lower level of the building, for those hours when the library is closed.

The library is committed to ensuring that Mercer students achieve appropriate information-seeking skills for academic work and lifelong learning. The Chappell Classroom, an electronic classroom near the reference desk, supports hands-on, course-based instruction programs that are designed and delivered by librarians to teach specific research skills for course assignments. The library also offers research clinics each semester to provide intensive individual attention that supplements the reference desk assistance available every day.

Tarver Library's Special Collections houses a rich Mercer University archives and is the official repository of the Baptist archives of the Georgia Baptist Historical Commission. Special Collections supports the local, national, and international research community in seeking information on Baptist life and Mercer's place in the history of Baptist higher education.

The **Monroe F. Swilley Jr. Library** in Atlanta serves the Mercer University College of Pharmacy; College of Health Professions; McAfee School of Theology; Georgia Baptist College of Nursing; and the Atlanta programs of the Stetson School of 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 Learning 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 library's Clinical Campus Branch is maintained at the Health Sciences Library of Memorial Health University Medical Center in Savannah, GA, one of the medical school's teaching hospitals.

The **Furman Smith Law Library**, which is accessible to law students 24 hours a day, is the center for legal research information at Mercer's law school. The law library's staff of sixteen includes professional librarians who have both law degrees and master's degrees in library and information science. The library's staff provides instruction in the required "Introduction to Legal Research" course, as well as the elective "Advanced Legal Research" course, which further develops a lawyer's ability to critically select and use a wide range of legal information sources. Mercer law librarians also teach specialized legal research, as part of doctrinal courses, on topics such as labor, securities, tax, and environmental law. The library's collection includes judicial, legislative, administrative, and practice materials, in electronic and print formats, for all jurisdictions, with an emphasis on Georgia and the...
Southeast. The library and computer lab form a fully integrated, functional unit, and Mercer law students utilize desktop computers and network drops to access the law school's network.

**Cultural Activities**

The Townsend School of Music presents more than seventy concerts each year in the Neva Langley Fickling Hall, Newton 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. Also, the concert series features the School of Music's faculty, as well as guest artists, in recital. Featured ensembles include the Mercer Singers, the Mercer University Orchestra, Jazz Ensemble, Mercer University Wind Ensemble, Women's Chamber Choir, and numerous Chamber Ensembles.
Financial Information

2013-14 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>$16,410</td>
<td>$32,820</td>
</tr>
<tr>
<td>Meal Ticket (Required of all residence hall students)</td>
<td>from $1,280 to $2,875.50</td>
<td>from $2,560 to $5,751</td>
</tr>
</tbody>
</table>

Housing
- Residence Hall (rates may vary) from $2,320 to $3,075
- Apartments from $2,930 to $3,630
- Greek Village from $2,889

The tuition and fees listed above cover semester course loads from 12 through 18 credit hours. Course loads under 12 credit hours will be charged on a per-credit-hour basis. Any course load greater than 18 hours will be charged at the above listed full-time rate PLUS a per-credit-hour charge for each hour greater than 18 credit hours. These rates and the 12 through 18 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 the 2013-14 academic year $1,094

Graduate Programs and Professional Programs

Cost per credit hour

**Townsend School of Music**
- Master of Music $656/hr

**Stetson School of Business and Economics**
- Master of Business Administration $692/hr

**Tift College of Education**
- Master of Education (MED) $533/hr
- Master of Arts in Teaching (MAT) $533/hr
- Specialist in Education $565/hr
- PhD $661/hr

**School of Medicine**
- Doctor of Medicine - Per Year $41,457
- Master of Family Therapy (MSR/MFT) $942/hr
- Master of Preclinical Science $747/hr
- Master of Biomedical Science $747/hr
- PhD in Clinical Medical Psychology $968/hr

**School of Engineering**
- Master of Engineering $835/hr
School of Law

Per Year ................................................................. $36,960

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 the course tuition charged.)

Tift College of Education special fees

Reciprocity Fee ...................................................... $600
Student teaching (EDUC 492, 496, 498, EMAT 611, 612) ........ $360
Fieldwork (EDUC 102B, 201A, 202B, 311A, 313B, 398, 399) EDEL 645B . $150
Practica (EDUC 480, 485, 488, EMAT 601, 608, 609) .............. $240
Leadership Academy (EDEL 601, 655, 703, 704, 810, 811, 898) ...... $65
(These fees are in addition to the course tuition charged.)

Audit Fee (for part-time students) ................................ $150 each course
Audit Fee (for full-time students) ................................. no charge for one audit per semester

Laboratory Fee (charged each semester per designated laboratory class) ................................................... $125
(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 catalog. Physical Education Lab Fees vary widely based on the activity.)

Facilities and Technology Fee:

Undergraduate students enrolled
12 hours or more ....................................................... $150/semester
Undergraduate students enrolled
11 hours or less ....................................................... $12.50 per credit hour
Graduate and Prof. students enrolled 9 hours or more .......... $150/semester
Graduate and Prof. students enrolled 8 hours or less ............. $17.00 per credit hour

Late Registration Fee .............................................. $50
Late Fee Payment .................................................. $50
Registration Reinstatement Fee .................................... $50
Payment Plan Enrollment Fee (per semester) ...................... $40
Dissertation Binding Fee .......................................... $65
Thesis Binding Fee .................................................. $30

Returned Check ............................................... $50 or 1% 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 Related Fees

Transcript Fee (for two to five-day service) ....................... no charge
Transcript on Demand (immediate service) ........................ $25
Document Faxing Fee ............................................. $5

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 2013-2014 academic year and are subject to change without prior notice.
Billing and Fee Payment

All students will be electronically billed and may access tuition statements through their MyMercer account. Notification emails are sent the student’s official Mercer email address when new statements are posted. Tuition is always due 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. Accounts may later be adjusted and rebilled based on changes in class schedules 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. A $50 fee per month will be charged for late payment.

If a student is registered for a particular semester but elects not to attend, the student must officially notify 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 balance.

Official correspondence, notices, and bills from the Bursar Office will be sent to the student’s Mercer designated email address.

Contractual Obligations

The registration of a student signifies the assumption of definite financial obligations between himself or herself and the University.

Payment Methods

Tuition, special fees, housing, and other assessments may be paid by cash, check, or money order (made payable to Mercer University), or by MasterCard, Discover, and American Express. Credit card payments must be made online through QuikPay via MyMercer. Students paying by credit card will be assessed a convenience fee by the credit card processor. E-check payments are free.

Students will be notified of their anticipated amounts of financial aid by way of award notifications or letters from the Office of Student Financial Planning. Those students whose financial aid has not been awarded by the first day of class are required to sign a Tuition Deferment for Pending Financial Aid form.

In an ongoing effort to assist our students and their families with budgeting educational expenses, Mercer offers a Monthly Payment Plan that allows a student to pay tuition in monthly installments throughout the semester. Also, students who receive company reimbursement may be eligible to participate in our Employer Tuition Assistance Payment Plan. More information concerning these payment options may be obtained by visiting our website at bursar.mercer.edu, or by contacting the Macon Campus Office of the Bursar.

Payment of tuition and fees is the responsibility of the student, regardless of sponsorship by his or her employer. To avoid late fees and being placed on registration and transcript hold, payment arrangements should be made by the first day of class each semester.

Third Party Payments

Special billing arrangements involving third parties must be approved by the Office of the Bursar prior to the start of each semester, and applicable vouchers and payment contracts must be received by the last day of the drop/add period. All outstanding balances must be paid 30 days from the last day of classes for a semester. A student using a third-
party payment arrangement will be held liable for payment of his or her account in the event that the third party does not pay.

V A Benefits

Individuals who are contemplating enrollment and are eligible to receive financial assistance through the U.S. Department of Veterans Affairs should contact the University’s Office of the Registrar on the Macon Campus regarding VA certification. VA recipients should not assume that contacting the Registrar relieves them of payment obligations. Students are responsible for notifying the Office of the Registrar of any changes in benefits or exhaustion of entitlement. **Students who receive VA benefits must make appropriate payment arrangements with the Office of the Bursar no later than the first day of class each semester to ensure that their tuition and fees will be paid in full.**

Students receiving tuition assistance paid directly to the University will have their total tuition and fees submitted to VA for payment, minus any tuition-based scholarships awarded for the term. Housing fees, meal plan fees, and miscellaneous fees (parking tickets, housing fines, etc.) are not eligible to be paid by VA and are the responsibility of the student. Students who have less than 100% entitlement are responsible for paying any outstanding balance that will not be covered by VA no later than the first day of class.

Students receiving tuition assistance paid directly to the student are encouraged to enroll in the Monthly Payment Plan to avoid holds and late fees on their tuition account. In these cases, the University does not receive any funds directly from VA and the student is solely responsible for ensuring that their balance is paid in full by the first day of class or they are enrolled in a payment plan.

Post-9/11 GI-Bill: The U.S. Department of Veterans Affairs provides a maximum amount of benefit per academic year, paid fall through summer, based on the entitlement percentage of the student. This entitlement is available for a maximum of 36 months. Once the maximum has been paid by VA for the academic year, or the end of the entitlement period is reached, the student is responsible for paying any remaining balance on their tuition account. Students with 100% entitlement may be eligible to receive Yellow Ribbon to help cover their balance once the maximum benefit has been paid for the year. For more information on this program, please contact the Office of the Registrar.

Student Insurance

All students are required to carry health insurance while enrolled at Mercer University. Each semester, an insurance premium is assessed at the time of registration. Those who do not wish to purchase the school policy must provide proof of insurance by completing the online insurance waiver at studentinsurance.com. Once coverage is verified, the premium charge will automatically reverse off. If the waiver is not entered each semester by the published deadline, the student will be held responsible for payment of the non-refundable insurance premium. No exceptions are made to this deadline.

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. The Bursar’s Office is authorized to apply to the student's debt any funds needed from the student's scholarships, loans, state grants, or any other student financial aid (unless prohibited by regulations governing said 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 and should understand that collection costs will be a minimum of 33 1/3%
or up to 67% of the outstanding balance. All accounts placed with collections will be reported to the Credit Bureau and NSLDS.

Refund Policy

A student is not eligible for any refund if (1) the student fails to formally withdraw; (2) the student is suspended for disciplinary reasons; (3) the student withdraws when a disciplinary action or honor code violation is pending; or (4) the student withdraws from a class or classes, but does not totally withdraw from all classes for the semester. 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 on 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 FORMALY 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 his/her school's Registrar's Office (2.) complete the online Withdrawal form. The completed form must be received in the Registrar's Office before the resignation process can be finalized. Refund 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 from the University prior to the first day of classes for a term. When a student resigns after the end of the official drop/add period, dormitory housing and meal plan refunds are calculated based on the percentages allowable under the Federal Return Policy Refund Schedule. Additional charges for housing and meals will be assessed on a prorated basis from the time of withdrawal until the student vacates the room and returns his/her keys and keycard. Once all calculations are complete, the Office of the Bursar will bill the student for any outstanding balance. 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 Academic Centers must submit letters of appeal along with any pertinent documentation to the Office of the Bursar by the beginning of the following semester. 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 return of financial aid funds. Otherwise, the University may use the student's last verifiable 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 45 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 its source programs:

\[
\text{The total number of calendar days attended by the student} = \text{Percentage to be retained}
\]

\[
\text{The total number of calendar days in the term of enrollment} = \text{Percentage to be retained}
\]

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.

\[
\text{Total tuition and fees for the term of enrollment} \times (100 - \text{percentage to be retained}) = \text{Total tuition and fees to be credited to the student's account}
\]

\[
\text{Total amount of Title IV Financial Aid disbursed} \times (100 - \text{percentage to be retained}) = \text{Total Title IV Financial Aid to be returned}^{**}
\]

**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.

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

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 / 114 days = .2368 or 23.7%

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:  

<table>
<thead>
<tr>
<th>Transaction</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>$1,959.00</td>
</tr>
<tr>
<td>Direct Loan</td>
<td>(3,000.00)</td>
</tr>
<tr>
<td>Refund to Student</td>
<td>1,041.00</td>
</tr>
</tbody>
</table>
| 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

*Note that this is the same calculation used for the percentage of Title IV Aid earned.*
Resignation Scenario #2: An undergraduate student formally resigns in the Registrar's Office on September 17th and turns in her dorm room keys and key card the same day.

Typical Charges:  
Financial Aid Disbursed:  
- $5,000 Federal Subsidized Direct Loan 
- $2,000 FSEOG Award 
- $9,145 Tuition 
- $7,000 Total Title IV Financial Aid 
- 1,750 Dorm Room 
- 3,000 Institutional Scholarship 
- 1,480 Meal Plan 
- 2,000 Outside Scholarship 
- $12,375 Total Charges 
- $12,000 Total Financial Aid Disbursed

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, 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 = $9,442.12

Less Title IV funds returned by the University = 5,341.00

Funds to be returned to non-Title IV funds = $4,101.12

These funds are distributed as follows:
- $3,000 to an institutional scholarship
- $1,101.12 to an outside scholarship

Snapshot of Student Account:

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

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.

Questions regarding refund procedures and amounts may be directed to the Office of the Bursar, 1400 Coleman Avenue, Macon, GA 31207 (Telephone: 478-301-1111).

**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 the 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 begins the leave of absence.

**Overpayment**

All payments made by or on behalf of a student shall be receipted to his/her account. In the event of an overpayment, it is not necessary for the student to request a refund. Refundable credit balances are processed on a regular basis by the Office of the Bursar.

Credit balances resulting from overpayment by credit card payment will be refunded to the credit card.

**General Information**

Books: Books and other supplies are available at the Mercer Bookstore. The cost of books varies with the courses of study and course load. Based on historical costs, we estimate $1,200 for books per year.

Parking Fee: No fees are charged for University parking. However, parking decals are required and may be obtained from the University Police. 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. Students disputing parking fines should contact the Mercer Police.
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 causes.

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's financial aid programs 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 have the primary responsibility for helping students meet educational costs, and that financial assistance is available to help students meet the difference between potential resources (such as a parent's contribution, summer earnings, outside scholarships and awards, etc.) and expenses. Parents and students should carefully review the "Financial Information" section of the catalog 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. Students are strongly encouraged to review the University's website for up-to-date policies and procedures.

Students and families are also strongly encouraged to complete Mercer's “Net Price” Calculator in order to get an estimate of the assistance they may receive at Mercer. 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 funds.

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) must be submitted each year. Students may complete the FAFSA on the Web at www.fafsa.ed.gov.

Mercer's priority deadline for receipt of the FAFSA is April 1 each year. Forms received after that date will be given consideration as long as funds remain available. Because the FAFSA can take a few 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 your results by our priority deadline of April 1.

Students are encouraged to visit the Office of Student Financial Planning (OSFP) website (www.mercer.edu/maconfa) to learn more about financial aid policies and to e-mail their Financial Planning Counselors 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 officially awarded. Provisionally accepted students are not eligible for financial aid (this includes Summer Bridge Students).
- In most instances, financial assistance is granted only on the main undergraduate campus to students who enroll in a course load of at least twelve semester hours
per term, 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 (i.e., Fall and Spring) of the regular academic year. Students interested in the summer session(s) will have their files reviewed for any remaining loan, Pell, HOPE, and GTEG eligibility once they have enrolled for summer classes. Students should discuss summer enrollment plans with their Financial Planning Counselor at least three weeks before summer term begins. Mercer scholarship and grant funds are not available for summer terms.

- Students receiving awards from sources other than Mercer University are required to advise the OSFP. A written statement that identifies the sponsor(s), the term(s) applicable, and the amount of the outside award(s) is required. Some adjustment of the financial aid originally awarded may be necessary. The University reduces any self-help (i.e. loan and work) awarded to the student before reducing any scholarships/grants.

- One-half of qualified students’ final annual financial aid packages (with the exception of Work-Study) will be automatically credited to their accounts at the beginning of each semester, provided the student remains enrolled full-time and all necessary paperwork is completed. Work-Study awards are paid directly to the student by check after the student earns these funds. It is up to the student to apply their paychecks to any balance due in the Bursar’s Office unless they specifically authorize the Bursar’s Office to apply their Work-Study checks to their student account in advance.

- No financial assistance will be disbursed while a student is in the “verification” process. 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 required to furnish supporting documentation. Students are originally awarded based on information submitted on their original FAFSA, in most cases. IMPORTANT: Should any information change based on verification of data, the student’s original financial aid package may be reduced.

- With the exception 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 renewes 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 submit 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 on the main undergraduate campus are made only to students who are enrolled full-time (minimum 12 semester hours per term). Following the initial semester award, University awards are typ-
ically renewed for seven additional semesters (fall and spring only), as long as the student continues to meet eligibility criteria. These awards must go towards tuition.

- Financial assistance may be available for Mercer’s Study Abroad programs. Students planning to study abroad must notify their Financial Planning Counselor at least 30 days in advance of their travel date to have their files reviewed.

- Certain Veterans’ Benefits must be considered part of the student's financial aid package. It is the student's responsibility to advise the OSFP if any VA benefits are being (or will be) received.

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

- Students must be making progress towards the completion of their course of study according to the “Satisfactory Academic Progress Standards” in the following section in order to receive Federal and State funds.

- Students who fail to earn a passing grade in all classes for a particular semester will be considered to have “unofficially withdrawn” from the University. If the institution cannot document that the student completed at least one class for the semester, Federal and State financial aid will be returned to the original sources of funds, in accordance with Federal Title IV Refund Policies.

- Presidential and other full tuition scholarships cover full tuition MINUS all entitlements, e.g., Pell Grant, State Grant, HOPE Scholarship, and Zell Miller Award.

- Any student receiving Mercer funds who leaves the University and re-enrolls the following academic year or later will be reviewed as a new, incoming transfer student for scholarship purposes. The student's original Mercer scholarship is not automatically reinstated.

**SAP (Satisfactory Academic Progress)**

Mercer’s Satisfactory Academic Progress standard is used to determine if an enrolled student is making satisfactory academic progress in his or her educational program, regardless of whether or not he or she is receiving Title IV aid. The SAP policy provides a consistent application of standards to all students, ensuring both the quality of academic work and the completion of a student’s program within the maximum time frame.

Mercer’s SAP Policy provides that a student's academic performance will be evaluated at the end of each semester. The SAP policy will measure both...

- Qualitative – Cumulative GPA a student must achieve at each evaluation (see chart below)

- Quantitative – Pace of progression to ensure graduation within the maximum time frame

**Qualitative Standard**

The Qualitative standard is a graduated standard based on cumulative GPA. A student must meet the following grade point average (GPA) at each evaluation:

<table>
<thead>
<tr>
<th>Total Hours Earned</th>
<th>Minimum Cumulative Grade Point Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 – 16</td>
<td>1.4</td>
</tr>
<tr>
<td>17 – 32</td>
<td>1.7</td>
</tr>
</tbody>
</table>
A student with a cumulative GPA below those listed in the above table will be put on Financial Aid WARNING for the next term and must meet the cumulative GPA standard at the end of the Financial Aid Warning payment period.

Eligibility to Appeal - If you have mitigating circumstances (e.g. death of a relative, injury or illness of student, or other special circumstance) that prevented you from meeting the 2.0 GPA requirement at the end of your second academic year, you may appeal to the Office of Student Financial Planning for a review of your circumstances as they relate to your academic standing. All appeals must be submitted, in writing, to the Office of Student Financial Planning within 10 calendar days of receiving the denial letter.

Quantitative Standard

There are two components to the Quantitative Standard: 1. Maximum Time Frame allowed for program. 2. Cumulative Completion Percentage. Both standards will be checked at the end of each payment period.

Maximum Time Frame – Students may receive aid for a maximum of 150% of the published length of their educational program. The measurement is cumulative, including all periods with or without Title IV assistance.

Maximum Time Frame at Mercer is defined in semester credit hours. For example, a degree program requiring 120 credit hours to complete will have the following Maximum Time Frame:

120 X 150% = 180 hours (Maximum Time Frame)

A student may NOT receive Title IV aid after attempting 150% of the Program Length. However, if a student feels there are mitigating circumstances that prevented him or her from completing the program within the 150% time frame, that student may review the appeal process included in this SAP policy and appeal in writing to the Financial Planning Office.

Completion Percentage for payment period: Students must earn at least 67% of all hours attempted (cumulatively for program) at the end of each semester. The Completion Percentage will be checked at the end of each payment period.

- **Transfer hours** – Accepted into a student’s program will count as both hours attempted and hours earned
- **Withdrawals** – Will count as hours attempted ONLY
- **Incompletes** – Will count as hours attempted, only until the course is completed. A passing grade will count as hours earned; a failing grade will remain as hours attempted only
- **Repeat Courses:**
  - Repeat courses are counted for previously failed classes
  - Repeat of previously passed courses are counted ONE TIME only
Quantitative Evaluation Points

If a student does NOT meet SAP standards at their first Quantitative evaluation point:

- Student will be automatically placed on Financial Aid Warning for ONE payment period
- No appeal is necessary by the student at this point in order to receive one Financial Aid Warning period
- Student must make SAP once Financial Aid Warning semester is completed
- If a student does NOT meet the SAP quantitative standard at the end of the Financial Aid Warning Period, the student is no longer eligible for Title IV aid. The student may submit an appeal in writing to be considered for Financial Aid probation.

Appeal Process

If a student loses Title IV eligibility and they feel they have mitigating circumstances (i.e. death of a relative, injury or illness to student, or other special circumstance) that prevented them from meeting SAP standards, they may provide a written appeal to the Office of Student Financial Planning. This appeal must be a complete summary of the student's circumstances and must include all supporting documentation such as death certificate, referrals from Doctor, medical bills etc. The Financial Planning Appeals Committee will review the appeal and determine if the circumstances warrant a waiver of the loss of Title IV aid and an additional probationary semester. When put on probation, the student is expected to meet SAP standards by the end of the probationary term, or be on track with an academic plan designed to ensure student will meet SAP standards by a specific point in time. A student's academic plan will be included in his or her appeal response.

If the appeal is not approved, the student will no longer be eligible for federal or state aid until the student meets SAP standards.

Financial Aid Probation

- Under Financial Aid Probation, a student may receive Title IV funds for ONE semester only.
- A student may not receive Title IV funds for any subsequent payment period unless:
  - Student is making SAP; or
  - Financial Planning Committee determines student met the SAP requirement specified by the Committee. A student reinstated to eligibility under an academic plan and making progress under the plan is considered to be eligible.

University Academic Scholarships and Grants

University academic scholarships and grants are awarded annually to qualified incoming new students through the Office of Undergraduate Admissions. These funds are awarded to incoming freshmen for eight semesters maximum (fall and spring semesters only), provided a student is enrolled full-time each semester 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 meet established academ-
ic criteria for renewal of their academic scholarships and grants each year. Please contact
the Office of Admissions for further information. These academic scholarships are for under-
graduate students who are enrolled on the Macon Main Campus only; and they are not
transferrable to other Mercer programs such as Pharmacy, RAC, Law, Nursing, etc.

Students seeking merit-based scholarships, or their continuation, may be required to
complete a Free Application for Federal Student Aid (FAFSA).

1. To maintain academic scholarships, students must enroll for a minimum of 12 credit
   hours in each semester- Fall and Spring.
2. The minimum standard for the continuation of merit-based scholarships is a cumulative
   grade point average of 2.5 (on a 4 point scale) for undergraduate studies. Grade point
   average will not be rounded up. Specific scholarships and/or academic programs may
   require a higher grade point average.
3. Cumulative grade point averages and semester loads will be checked at the end of each
   spring term. A student who fails to meet the requirements 1 and 2 is given a provision-
   al period of one year. If the student fails to meet the requirements at the end of the pro-
   visional period, but has maintained an academic load of at least 12 semester hours
   each term and has a grade point average of at least a 2.0, then the student will retain
   50% of the original scholarship amount.
4. Scholarship will be suspended for any student who fails to earn a cumulative grade point
   average of at least 2.0 at the end of the fourth semester.
5. By contacting the Office of Student Financial Planning, students may appeal to have
   their scholarship reinstated at the original value at the end of a term in which the stu-
   dent meets the aforementioned criteria.

Recipients of merit-based Full-tuition Scholarships:

1. To maintain academic scholarships, students must enroll for a minimum of 12 credit
   hours in each semester- Fall and Spring.
2. The minimum standard for the continuation of merit-based scholarships is a cumulative
   grade point average of 3.0 (on a 4 point scale) for undergraduate studies. Grade point
   average will not be rounded up. Specific scholarships and/or academic programs may
   require a higher grade point average.
3. Cumulative grade point averages and semester loads will be checked at the end of each
   spring term. A student who fails to meet the requirements 1 and 2 is given a provision-
   al period of one year. If the student fails to meet the requirements at the end of the pro-
   visional period, but has maintained an academic load of at least 12 semester hours
   each term and has a grade point average of at least a 2.0, then the student's scholar-
   ship will be reduced to the highest merit-based University Scholarship awarded by the
   admissions office. This scholarship value is currently set at $20,000 per year.
4. Scholarship will be suspended for any student who fails to earn a cumulative grade point
   average of at least 2.0 at the end of the fourth semester.
5. By contacting the Office of Student Financial Planning, students may appeal to have
   their scholarship reinstated at the original value at the end of a term in which the stu-
   dent meets the aforementioned criteria.

Endowed and Expendable Scholarships

Certain scholarships are also provided by University sources, private businesses, civic
groups, estates, individuals, and alumni. Most of these scholarships are awarded as
University Scholarships originally then transferred to these funded accounts during the year.
All University 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.

All students who complete the Free Application for Federal Student Aid (FAFSA) will automatically be reviewed for Endowed and Expendable Scholarship eligibility as long as funds remain available. No separate applications are required.

Scholarships coordinated through the OSFP are listed below, in addition to several scholarships coordinated through various departments on campus. Please contact the OSFP for additional information.

- Nedra Anargyros Scholarship
- Charles Andrews Scholarship
- Awtrey Scholarship
- Pearl Baker Scholarship
- Esther Baldwin Scholarship
- Barlow Scholarship
- Joe Frank and Ada Barton Scholarship
- Thomas W. Bennett Scholarship
- Berry Scholarship
- Sara Cheatham Bittick Scholarship
- Bivins Scholarship
- Doris Bleckley Scholarship
- Ronald C. and M. Sue Bloodworth Fund
- Iverson Brooks Fund
- Edna Boone Memorial Scholarship
- Zonie Brantley Scholarship
- Bryan Scholarship
- M.E. Butler Scholarship
- Frank Edward Byington Scholarship
- Paul E. Cable Scholarship
- A & M Cardwell Scholarship
- Dr. B. Carroll Carter Scholarship
- M.D. Memorial Scholarship
- Richard and Annette Chappell Scholarship
- Clark Scholarship
- Class of '31 Scholarship
- Class of 1960 Scholarship
- Irma and Marvin Coddon Scholarship
- Collier Scholarship
- Martha Jean Colquitt Memorial Scholarship
- Charles Connally Scholarship
- Paul R. Consenza Fund
- Bryan Cook Honorary Scholarship
- Joel J. Cordell Scholarship
- Cousins Scholarship
- James M. Cowan Scholarship
- James and Sandra Cox Scholarship
- Mary & Carl Cranford Scholarship
- Crous Scholarship
- Barbara Dean Scholarship
- Dodd Scholarship
- Donaldson Scholarship
- R.E. Dorough Scholarship
- Dowell Scholarship
- Elmo Droughon Scholarship
- Dunaway Scholarship
- Dunwoody Scholarship
- Valerie Edmonds Student Research Award Fund
- Eagle Scout Scholarship
- Elyeen R. Elrod Scholarship
- Engineering Faculty & Staff Scholarship
- Paul Erbele Scholarship
- G. Leslie Fabian Chair of Music Fund
- G. Darrell Fennell Memorial Scholarship Fund
- The 50 Year Reunion Class Alumni 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
- Joan Godsey Scholarship
- Goizueta Foundation Scholarship
- Moses Gordon Scholarship
- G.W. and Mary Goss Scholarship
- Gragg Scholarship
• James Gray Scholarship
• Allen and Jane Grum Scholarship
• Hoke S. Greene Scholarship
• Gunn-Murray Memorial Scholarship
• Robert L. Gunnels Scholarship
• Betty Hamil Scholarship
• Hubert Hamilton Scholarship
• Judge H. Pope Hamrick Jr. Scholarship
• D.S. Hardman Memorial Scholarship
• William B. Hardman Fund
• Henry E. Harris Fund
• Rufus Harris Scholarship
• John & Ruth Harrison Scholarship
• Julian & India Harrison Scholarship
• J. Freeman Hart Scholarship
• Robert Hatcher Leadership Scholarship
• Heard Scholarship
• Jean Hendricks Psychology Scholarship
• Joseph and Elizabeth Hendricks Mercer on a Mission Fund
• Hendricks Minority Scholarship
• Bobbie Bobo Hennecy Scholarship
• Holcomb Scholarship
• Carol Ann Holcomb Scholarship in Biology
• Louise Holland Scholarship
• Ira Holliman Scholarship
• Ira P. and Lucile F. Holliman Scholarship
• Holsenbeck Memorial Scholarship
• Fred W. Hoppe Music Scholarship
• Horn Scholarship
• Leslie M. and Ethel A. Horn Scholarship
• Leann Wimpey Hulsey 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
• Johns Creek Baptist Church
• Allie Jolley Scholarship
• Allie & Joseph Jolley Scholarship
• Ben Hill Jones Scholarship
• T.W. Jones Scholarship
• A. Justus Scholarship
• Laverne and Margie Kellum Scholarship
• Evolyn Kennedy Scholarship
• Caroline Paul King Endowed Chair of Strings Fund
• Knight Scholarship
• Melvin I. Kruger Scholarship
• Latore Family Scholarship
• T.J. & Mary Lawler Scholarship
• Hugh Lawson III Memorial Scholarship
• W. Leroy Lawson Memorial Scholarship
• Lawton Scholarship
• W. G. Lee Music Scholarship
• George William Lee Scholarship
• David Leonard Memorial Scholarship
• John and Ernestine Lewis Scholarship
• Mappin Memorial Scholarship
• B. Mathias Martin Scholarship
• Martin-Melton Scholarship
• Mercer on a Mission Scholarship Fund
• Maughon Fund
• The Jeffrey Mavro TCO Scholarship
• Shannon Mays Scholarship
• McAfee Vision and Leadership Scholarship
• McCarty Chemistry Scholarship
• Clyde McCrea Scholarship
• Mildred McMahon Scholarship
• G & G Meeks Scholarship
• Robert McDuffie Scholarship
• Mens EEE Scholarship
• Fred Miles Scholarship
• James & Pauline Miles Scholarship
• W.L. Moore Scholarship
• Max and Doris Morris Memorial Mercer on a Mission Fund
• James Morton Scholarship
• Hammond Nicholson Scholarship
• Michael D. Osterhout Scholarship Fund
• Ernie and Carmen Ortiz Memorial Scholarship
• Pace Family Scholarship
• Parents Scholarship
• Patillo Scholarship
• Drew W. Paulk Scholarship
• Perryman Scholarship
• W.L. Pickard Memorial Scholarship
• Lamar R. Plunkett Honorary
• SC Sigma Nu Records
• Thomas Plunkett Scholarship
• Myrtle Raines Scholarship
• Warner and Pearl Traylor Raines Scholarship
• Deforest Ratliff Scholarship
• Arthur & Helen Rich Scholarship
• The Helen Wall Rich Professorship
• Roberts Scholarship
• Roddenberry Fund
• Juan L. Cruz-Rosario Scholarship
• Jennifer L. Ross 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
• Tift Chiles Scholarship
• Tift College of Education Dean's Fund
• 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 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 Vinzant 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
• Ettie Ivey Usey Memorial Scholarship
• Unrestricted General Endowed Funds
• Unrestricted General Scholarship
• Vanderhoof Scholarship
• Van Greene Scholarship
• Mary Lou Vaughn Scholarship
• Louise Verdery Scholarship
• Ralph and Nancey Sewell Voris Educational 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
Ministerial Assistance Funds

MINISTERIAL FUNDS - Mercer offers 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., the FAFSA is required). A ministerial application is required which includes 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. Please see your Financial Planning Counselor for further information on this scholarship and to obtain an application. All students receiving ministerial aid funds are required to successfully complete at least one course in Christianity annually; and they must meet annually with the University Minister to renew their career goals in the field of full-time Christian Service.

Ministerial 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
- Giddens Ministerial Scholarship
- General Ministerial Funds
- General M.A. Scholarship
- Hardman Scholarship
- John B. Hardman
- Holcomb Scholarship
- Hughes Scholarship
- Jackson Scholarship

- Jessup Scholarship
- L.B. and C.H. Knight Scholarship
- Light Memorial Scholarship
- B.K. MacDougall Scholarship
- John & Neva Mowell Scholarship
- L.D. Newton Scholarship
- Posey Scholarship
- Pruitt Scholarship
- Seigler Scholarship
- Skelton Scholarship
- Cutts Smith Scholarship
- Stubbs Scholarship
- Thomas Scholarship
- Van Deventer Scholarship
- Vineyard Memorial Scholarship

ROTC Scholarships

MERCER ROTC ROOM AND BOARD SCHOLARSHIPS - These awards are made to qualified full-time Army tuition scholarship recipients who have been fully accepted into the Army ROTC Program. Entitlements such as Pell and GTEG will go towards room and board charges first; and Mercer will cover the difference up to the highest double occupancy dorm.
charge. Please see our web page for a full explanation of current ROTC Room and Board Scholarships or contact the ROTC Department at Mercer University.

Yellow Ribbon Program

Mercer participates in the Yellow Ribbon Program. Please contact the VA Coordinator in the Registrar’s Office to check your eligibility. You may also view information in regards to the Yellow Ribbon Program at gibill.va.gov.

Federal and State Grants

The FEDERAL PELL GRANT PROGRAM is available to qualified 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. Students are limited to 12 semesters (or its equivalent) in Pell Scholarship Funds. This includes all Pell Grant/Basic Grant disbursement to the 1973-1974 award year. Once a student reaches 600% Pell Grant Eligibility used, the student is no longer eligible for additional Pell Grant funds.

The FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT PROGRAM (SEOG) is available to a limited number of undergraduate students, both dependent and independent, who have exceptional financial need. These grants are awarded annually, based on each student's need as determined from information provided on the FAFSA. SEOG Awards may be as high as $4,000 per year. SEOG funds may be awarded to eligible students receiving Pell as long as SEOG funds remain available. Please note that SEOG funds may be used during the academic year to fund university grants and scholarships for eligible students.

TEACH GRANT – The Federal TEACH Grant program provides up to $4000 per year to students fully accepted into an eligible education program and who intend to teach in a high-need field that serves students from low-income families. Eligible students must have and maintain a 3.25 GPA or scored in the 75% percentile in at least one section of a nationally-normed standardized test. In exchange for receiving the TEACH Grant, a student must agree to serve as a full-time teacher in a high-need field in a public or private elementary or secondary school that serves low-income students. As a recipient of the TEACH Grant, you must teach for at least four academic years within eight calendar years of completing the program of study for which you received a TEACH Grant. IMPORTANT: If you fail to meet this service obligation in its entirety, ALL amounts of TEACH Grant funds received will be converted to a Federal Direct Unsubsidized Loan. You will then be charged interest from the date the grant(s) were disbursed. You must then repay this loan to the U.S. Department of Education. There are no partial cancellations.

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 first day of classes for any particular semester. The student's academic load must meet the requirements specified by the GA Student Finance Authority (presently 12 credit hours per semester). To be considered for the grant, students must complete a Free Application for Federal Student Aid (FAFSA) each year, effective summer 2013 and meet all eligibility requirements. The total amount of the grant is determined each year by the state legislature, based on availability of funds. Funding may be reduced by the State at any point in the year. If this is the case, the University will not make up this difference in funding.
HOPE SCHOLARSHIP - High school graduates, from 1996 and later, who are named HOPE Scholars by the GSFC will receive a HOPE Scholarship of $3,600. This amount is subject to change each year by the State. Awards are renewed as long as funds are available, students continue to meet State eligibility criteria and have a 3.0 HOPE GPA. A student may lose and regain the HOPE Scholarship one time only. Eligibility checkpoints include 30, 60 and 90 attempted hours and each spring semester. HOPE recipients must complete a FAFSA each year. Please note that the HOPE GPA of 3.0 or higher does 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, provided they attain a cumulative 3.0 HOPE grade point average after 30 attempted hours.

ZELL MILLER SCHOLARSHIP - High school graduates who are named Zell Miller Scholars by their high schools will receive a Zell Miller Scholarship from the State of Georgia in the amount of $4,000. Zell Miller eligibility criteria include: 3.7 high school Zell Miller GPA and 1200+ SAT score in math and reading in a single test administration and/or 26+ ACT in math and reading in a single test administration. High school valedictorians and salutatorians are also eligible for the Zell Miller Scholarship provided they meet the eligibility criteria specified by GSFC. This amount is subject to change each year by the State. Awards are renewed as long as the students continue to meet state eligibility criteria and have a 3.3 Zell Miller GPA. A student may lose and regain the Zell Miller Scholarship one time only. Eligibility checkpoints include 30, 60 and 90 attempted hours and each spring semester. Zell Miller recipients must complete a Free Application for Federal Student Aid (FAFSA) each year. Please note that the HOPE GPA of 3.3 or higher does 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 Zell Miller funds retroactively for their freshman year, provided they attain a cumulative 3.3 Zell Miller grade point average after 30 attempted hours.

The SCHOLARSHIP FOR ENGINEERING EDUCATION (SEE) is awarded to qualified Georgia residents who meet State eligibility requirements, have a 2.5 cumulative GPA (using the same calculation policies above 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 $3,000 awarded. Otherwise, this award converts to a cash-repayable loan. A separate SEE application is required every year, along with a FAFSA. Applications are available in the OSFP and at www.GAcollapse411.org. Please note: Funding is limited and is based on availability from the State. Awards are made on a first-come, first-served basis. Should the State Legislature eliminate funding for the SEE, the University will not replace these funds.

Loans

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

Mercer awards qualified students a maximum of $4,000 per year and an aggregate maximum of $20,000 for all years as an undergraduate student. Graduate students may bor-
row a maximum of $6,000 per year and an aggregate maximum of $40,000 (including undergraduate loans). For loans granted after October 1, 1992, the repayment period does not start and interest does not begin to accrue until nine months after a student ends 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 loan 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 - Applicants 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: $3,500 per academic year for freshmen; $4,500 for sophomores and $5,500 for juniors and seniors. The aggregate limits that a student may borrow are $23,000 for undergraduate study. Graduate and Professional students are not eligible for subsidized loans.

The federal 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.

All first-time borrowers at Mercer are required to complete entrance counseling before funds can be disbursed. Students are encouraged to complete this required process electronically (www.studentloans.gov) to expedite receipt of loan funds.

WILLIAM D. FORD FEDERAL DIRECT UNSUBSIDIZED LOANS - Unsubsidized loans are available to students who do not qualify for the above Federal Direct Subsidized Loans. These loans have terms and conditions similar to the subsidized loans above; however, 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.

For students enrolled as regular students in eligible programs, additional unsubsidized Direct Loan annual limit is $2,000 for undergraduate dependent students. See our website for additional details.

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 $12,000 per academic year. The aggregate limits in sub/unsub loans that a student may borrow are $31,000 for dependent undergraduate students, $57,500 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 credit-worthy parents of dependent undergraduate students. To apply, a separate application must be completed every year by a parent or legal guardian. The annual limit a parent may borrow is equal to the cost of attendance minus any other financial aid the student is receiving. 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 credit-worthy endorser (co-signer). 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 several very 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 as follows:

- 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 loans available to students who need assistance beyond University and federal loan resources. Please contact the OSFP for further information regarding private alternative student loans.

Student Employment

Federal Work-Study Program

The Federal Work-Study Program is a program designed to provide qualified students the opportunity 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 completed all required forms for the OSFP; (3) show evidence of financial need through the FAFSA; and (4) maintain satisfactory academic progress while employed under this program.

All student employment positions are coordinated through the Work-Study Coordinator located in the Office of Student Financial Planning. First-time Federal Work-Study recipients will be contacted by the Federal Work-Study Coordinator during the summer preceding fall semester regarding their employment options.

Other On-Campus Part-Time Employment

All on-campus employment must be authorized by the Federal Work-Study Coordinator before the student begins working. Students who are awarded Federal Work-Study are given first priority for on-campus employment. Students must complete an I-9 Form and Tax Withholding Forms within three days of employment. All student-worker employment forms must be submitted to the Work-Study Coordinator in the Office of Student Financial Planning. Students whose files are selected for verification must complete the verification process before they may begin working on campus.
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. The facility is located approximately 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 for employment. Applications for employment can be obtained directly from 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. In addition, the various undergraduate degree programs call for more specialized study that deepens the 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 seek to prepare students to be innovators in the realms of teaching, learning, research, scholarship and service.

General Education

Mercer University’s founding vision, articulated by Jesse Mercer in the 1830s, dedicated us to promote free inquiry, religious liberty, and inclusiveness -- values consonant with Baptist heritage. University President William D. Underwood underscored that vision in 2006, noting that “…the extent to which a university transforms the lives of individual students, who in turn transform their communities, represents the ultimate measure of a university’s greatness.” To put this transformative vision into practice within the communities we serve, a Mercer University education emphasizes experiences that infuse intellectual growth, cultural understanding, civic responsibility, and moral discernment with practical competencies.

The distinctiveness of their programs and traditions notwithstanding, Mercer University’s undergraduate colleges and schools share learning goals and competencies that reflect Mercer’s mission to educate the whole person. These undergird the General Education Curricula, which provide the necessary foundation for disciplined study and lifelong learning.

General Education is designed to help students cultivate and refine habits of mind that prepare them to contribute constructively and meaningfully to society. Toward this end, General Education strives to instill in persons broader perspectives while empowering them to find fuller and richer citizenship in a world in which different cultures, social institutions, and technologies intersect in multiple and diverse ways.

Four Student Goals of General Education

A Mercer education is designed to foster intellectual growth, cultural understanding, civic responsibility, and moral discernment. These four interrelated goals inform the practical competencies for general education. The goals are achieved, not in the abstract, but in and through the exercise and development of the practical competencies. Satisfactory completion is expected in the following competencies:

- Communicating effectively in writing in a variety of modes and settings
- Communicating effectively orally in a variety of modes and settings
- Reasoning quantitatively
- Analyzing observed natural phenomena through the use of scientific reasoning
- Integrating coherently diverse perspectives with knowledge
- Acting perceptively and responsibly in light of the education one has received

In accordance with the university’s accrediting body and in collaboration with the faculty of the colleges and schools, these competencies are built through satisfactory completion of the following requirements.
Requirements of General Education

General Education core requirements must include at least one course (3 credit hours) in each of the six broad categories listed below, and sum to at least 30 hours. Each school/college may select its own general education requirements from among the list of approved courses in each category and may choose to require more than the minimum number of hours and courses. Individual schools/colleges may also include additional college core requirements. Students should consult the requirements of their respective college to determine which courses are needed for graduation.

Communication (both written and oral communication competencies in English must be addressed):
- Written Communication: GBK 101; INT 101; INT 201; LBST 175; LBST 180; TCO 141; WRT 120;
- Oral Communication: COM 210; COMM 171; GBK 304; INT 301; TCO 141
- Other Communication: ENGL 300; any foreign language; INSY 102; LBST 275; LBST 280

Religion
- CHR 101; CHR 150; CHR 170; ENG 225; GBK 203; HIS 160; PHI 240; RELG 110; RELG 120; RELG 115; RELG 220; RELG 225; RELG 356

Humanities/Fine Arts
- Humanities: CHR 210; CHR 270; CLA 101; CLA 102; COMM 251; ENG 224; ENG 226; ENG 233; ENG 234; ENG 235; ENG 237; ENG 263; ENG 264; GBK 202; GBK 305; FLL 195; HIST 101; HIST 102; HIST 201; HIST 202; HIST 200; HIST 210; HIST 220; HIST 366; HIST 367; HIST 368; HIS 110; HIS 145; HIS 165; JMS 220; JMS 225; JMS 230; LITR 115; LITR 207; LITR 247; LITR 277; LITR 334; PHI 190; PHI 230; PHI 260; PHI 265; PHI 269; SCLT 201; WLT 101;
- Fine Arts: ART 106; ART 107; ART 115; ART 116; ART 223; ART 224; ART 225; ART 226; ART 254; ARTH 101; COMM 104; COMM 205; LBST 250; LBST 255; MUS 151; MUSC 150; PHO 230; THR 115; THR 218; (3 credit hours may also be selected from the 1-hour music ensembles to meet this requirement: MUS 182; MUS 183; MUS 191; MUS 192; MUS 197; MUS 198)

Behavioral/Social Science
- AFR 190; AFR 210; ANT 101; COM 230; COM 250; ECN 150; ECN 151; ENV 250; GBK 407; GEO 111; GHS 200; JMS 101; JMS 240; ORGL 210; PHI 237; POL 101; POL/IAF 253; PSY 101; PSYC 111; SEP 200; SOC 101; SOC 210; SOCI 111; WGS 180

Quantitative Reasoning
- CSC 204; MAT 104; MAT 133; MAT 141; MAT 191; MAT 192; MATH 129; MATH 130; MATH 140; MATH 160; MATH 220; PHI 180; STA 126

Scientific Reasoning (including a lab)
- BIO 102; BIO 110; BIO 202; BIOL 101; BIOL 105; CHM 110; CHM 111; CHM 112; ENB 105; ENB 110; ENB 150; ENVS 210; ENVS 215; PHY 102; PHY 105; PHY 108; PHY 109; PHY 115; PHY 141; PHY 142; PHY 161; PHY 162; PHYS 106; PHYS 220; PHYS 225; SCIE 100; SCIE 215; SCIE 220; SCIE 250

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Degree Programs

The University offers the following degree programs:

College of Liberal Arts
- Bachelor of Arts
- Bachelor of Science
- Bachelor of Science in Health Science

Stetson School of Business and Economics
- Bachelor of Business Administration
- Master of Business Administration
- Master of Accountancy
- Executive Master of Business Administration (Atlanta only)
- Professional Master of Business Administration (Atlanta, Savannah, Newnan)

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

Tift College of Education
- Bachelor of Science in Education
- Master of Education
- Master of Arts in Teaching
- Specialist in Education
- Doctor of Philosophy in Educational Leadership
- Doctor of Philosophy in Curriculum and Instruction

Townsend School of Music
- Bachelor of Music (Performance or Elective Studies)
- Bachelor of Music Education
- Bachelor of Arts in Music
- Master of Music (Church Music)
- Master of Music (Performance)
- Master of Music (Conducting)

For specific information on the degrees offered and their requirements, see the individual college/school 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

Mercer University adheres to the Carnegie unit for contact time: 750 minutes of classroom or direct faculty instruction and a minimum of 1500 minutes of out-of-class student work for each credit awarded. Mercer defines a class hour as 50 minutes. The expectation of contact time inside the classroom and student effort outside the classroom is the same in all formats of a course, whether it is fully online, a hybrid of face-to-face contact with some content delivered by electronic means, or one delivered in lecture or seminar format.

Course Numbers

Undergraduate Level Courses:

<table>
<thead>
<tr>
<th>Course Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-099</td>
<td>Remedial (not applicable to degree requirements or graduation).</td>
</tr>
<tr>
<td>100-199</td>
<td>Courses generally considered introductory in nature, including those carrying no prerequisites and those intended primarily for freshman-level students.</td>
</tr>
<tr>
<td>200-399</td>
<td>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.</td>
</tr>
<tr>
<td>400-499</td>
<td>Advanced-level courses generally requiring senior status, including, but not limited to, such courses as seminars, senior independent or directed study, research, colloquia, etc.</td>
</tr>
</tbody>
</table>

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

Graduate Level Courses:

Stetson School of Business and Economics

<table>
<thead>
<tr>
<th>Course Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>600-699</td>
<td>Graduate courses designed for graduate students only</td>
</tr>
</tbody>
</table>

School of Engineering

<table>
<thead>
<tr>
<th>Course Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>500-599</td>
<td>First-level graduate courses; may also be taken by qualified undergraduates</td>
</tr>
<tr>
<td>600-699</td>
<td>Advanced-level graduate offerings</td>
</tr>
</tbody>
</table>

Tift College of Education

<table>
<thead>
<tr>
<th>Course Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>500-599</td>
<td>Post-baccalaureate initial certification only; credit does not apply toward degree</td>
</tr>
<tr>
<td>600-699</td>
<td>Master of Education/Master of Arts in Teaching classes</td>
</tr>
<tr>
<td>700-799</td>
<td>Education Specialist classes</td>
</tr>
<tr>
<td>800-899</td>
<td>Doctor of Philosophy classes</td>
</tr>
</tbody>
</table>

Townsend School of Music

<table>
<thead>
<tr>
<th>Course Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>500-599</td>
<td>Graduate level offerings in applied and ensemble areas</td>
</tr>
<tr>
<td>600-699</td>
<td>Master of Music course offerings</td>
</tr>
<tr>
<td>700-799</td>
<td>Graduate level offerings co-listed with McAfee School of Theology</td>
</tr>
</tbody>
</table>
Grading System and Quality Points

Cumulative grade point averages are computed using a quality point system. The interpretation of the letter grades and their quality point values 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>Good</td>
<td>3.5</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>3.0</td>
</tr>
<tr>
<td>C+</td>
<td>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</td>
</tr>
<tr>
<td>FQ</td>
<td>Failure-Quit Attending/Never Attended</td>
<td>0</td>
</tr>
<tr>
<td>S</td>
<td>Satisfactory</td>
<td>*</td>
</tr>
<tr>
<td>U</td>
<td>Unsatisfactory</td>
<td>*</td>
</tr>
<tr>
<td>ABX/ABXSU</td>
<td>Absent from final examination (excused)</td>
<td>*</td>
</tr>
<tr>
<td>IC/ICSU</td>
<td>Incomplete due to 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.

**Grade of D may not be awarded for graduate students.

Satisfactory/Unsatisfactory (S/U) Grade

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

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 result in no hours earned and in no penalty to the cumulative grade point average.

The satisfactory grade requires a standard of achievement equivalent to that which is 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 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 this decision after the drop/add period. Courses originally taken on a letter grade basis may not be repeated on an S/U basis.

ABX and Incomplete

The grade of ABX or ABXSU denotes that the student was absent from the scheduled final examination because of sickness or another valid and compelling reason that is 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, and ABXSU will be changed to U.
The grade of IC or ICSU (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 that is satisfactory to the instructor. All course work in an undergraduate class must be completed no later than mid-term of the following semester, or the IC grade will be changed to a grade of F, and grade of ICSU will be changed to U. All ABX and IC grades must be replaced with traditional grades before degrees can be awarded.

In Progress (IP)

The IP (In Progress) grade is assigned only in courses that 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.

Grade Reports

Mercer University does not automatically mail grade reports to students. Students may check their semester grades on-line through MyMercer as soon as the grades are posted. After ALL grades are posted, official semester grade reports will be mailed only to those students who have requested them. Requests for official copies of grade reports must be made through MyMercer during the last two weeks of a semester; a request must be made every semester that a student wants a report mailed to him/her (i.e., making a request one semester does not mean that you will automatically have a grade report mailed to you each of the following semesters). If a student does not order a grade report during the allotted two weeks at the end of a semester, the student will need to request a transcript in order to receive an official copy of his/her grades.

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 the drop/add period or when withdrawing from a course).

Most first-year students are advised by the instructor of their UNV 101 or BUS 101 course. Spending time in class with the student allows the advisor to better assess the student’s interests and goals and to get to know the student better. Transfer students are assigned advisors during their first semester, based on their academic areas of interest. Upon declaring or changing a major, a student will receive a new advisor in that academic area.

Academic advising is coordinated by the Office of Academic and Advising Services. Its 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 this 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. According to the University's policies, students may not register if they have unpaid financial obligations, including library or Campus Housing fees, or if they have unresolved issues with their immunization records. 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 signature for overloads or the instructor's signature for independent study or internships, etc. Students should consult the catalog and the current schedule of classes for any prerequisites and special requirements for specific courses, as well as instructions for registration procedures.

There are three registration periods each semester. Following the mid-term of each semester, a one- to two-week period of priority registration occurs for currently enrolled students. A registration time is assigned to each student based on the student's total hours earned as of the end of the preceding semester; this is the earliest, but not the only, time at which the student may register. Shortly following the conclusion of priority registration, open registration begins, during which readmitted and new students may also register. Open registration ends when the new semester begins. When classes begin, late registration and the drop/add period continue for the first four (4) days of the term.

Students are responsible for their registration, and for the corresponding fees and charges 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 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.

Please note that people who attend classes but are not officially registered cannot retroactively register or receive grades or credits for those courses.

**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 their major, minor, and/or school or college, or who have other extenuating circumstances, must have the appropriate dean's permission to exceed the four-course limit.

Enrollment documents for such courses will carry the notation of “repeat” next to the course, and this notation will appear also on the class roll and the student's permanent record. Credit hours will be granted only once for any given course. The grade recorded in the final attempt at taking the course will prevail. The final grade will be used in computing the student's cumulative grade point average whether the grade is higher or lower than any previous grade(s) earned for this course. 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 catalog 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” course 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.

**Academic Loads**

An academic load of 12 semester hours qualifies a student for full-time status, which is necessary to fully qualify for scholarships 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 (i.e., the maximum load of 20 hours of credit per semester). The appropriate dean must approve course overloads, and the cumulative average of B must be maintained to retain the privilege of taking overloads 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 a professor in their major or an advisor regarding the contemplated change. The written permission of any 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 in extreme personal circumstances and with appropriate documentation. 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 a student officially withdraws from all courses in which s/he is enrolled at any time after the end of the drop/add deadline for a given semester. The effective date of withdrawal is the date the withdrawal form is received by the Office of the Registrar. Grades of W will be awarded for all of a student’s courses when s/he officially withdraws before the end of the ninth week of the semester (the point at which the semester is two-thirds over). In order to receive grades of W, a student must complete the Term Withdrawal Form and submit it to the Office of the Registrar by the announced dead-
A student who withdraws after the deadline must complete the form for official withdrawal, but grades of F will be recorded for his/her classes. In extreme personal circumstances and with appropriate documentation, a student may appeal to the associate dean of his/her college to have grades of W awarded when officially withdrawing after the deadline.

Non-attendance or ceasing to attend a course(s) does not constitute an official schedule change, course withdrawal, or term withdrawal. Failure to officially withdraw will result in academic and financial penalties.

A student who withdraws from a course or from the University when a disciplinary action or honor code violation is pending is not necessarily exempt from a sanction and the final outcome may disqualify the student from receiving a refund.

Information on Mercer’s refund policies can be found in the “Financial Information” section of this catalog.

Final Examinations

Examinations are administered at scheduled times at the end of each semester. Students must report to examinations at the time scheduled. If a student has three final exams scheduled on the same day, the student should contact the associate dean of his/her college/school as soon as possible to request arrangements to take one of the exams on another day. Changes in the examination schedule may be authorized only by the appropriate associate dean. Permission for a make-up examination due to an illness or another 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 for which credit-by-exam may be given and establishes the criteria for awarding credit. No college, school, or department is obligated to offer an institutionally developed credit-by-exam option. A student may receive no more than 32 hours of credit from all extra-course examinations including 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 annota-
tion 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 at Mercer 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 for these exams are available in the Office of the Registrar.

Class Auditing Regulations

Students who audit courses are assumed to be seriously interested in the courses for which they enroll. An official entry of “audit” on a student’s 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 to register. There is no special audit fee for full-time students. A student who is auditing a course may not decide instead to take the course for credit after the last day for course schedule changes (drop/add). Courses that a student audits may not later be taken by that student for credit, nor may the student receive credit-by-exam for these courses. 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 students is listed in the “Financial Information” section of this catalog.

Please note that laboratory classes, including physical education activity courses, may not be audited.

Class Attendance

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. Also, instructors will monitor class attendance from the class start date through the official University census date. This period is approximately 15 days, beginning with the class start date for the term. This information is used to establish University enrollment counts.

Regular class attendance is expected in most courses. No attendance regulation is prescribed by the University beyond (1) the regulation that addresses attendance on the first class day and (2) attendance monitoring during the period prior to the official University census date. Faculty announce their expectations about attendance in course syllabi.

Mercer University is respectful of the religious practices of members of the student body. Students who will be absent from class for religious observances must confer with their instructor(s) regarding the date of the absence at the beginning of each semester or session, or at least two weeks prior to the dates of the absence. The disposition of missed assignments will be arranged between instructor and student. If a mutually satisfactory solution is not reached, the right to establish a reasonable alternative is reserved to the instructor. Students who feel that their academic performance will be compromised by the
alternative assignment/examination timetable may ask that the instructor's dean review the
instructor's decision.

Students engaged in University sponsored activities, such as athletic participation, music
ensembles, and debate team, are allowed a set number of excused absences. These stu-
dents enrolled in classes that meet on Monday-Wednesday-Friday (MWF) may not exceed 8
absences. These students enrolled in classes that meet on Tuesday-Thursday (TR) may not
exceed 5 absences. For classes that do not meet on a MWF or TR schedule, the number of
allowed absences for University sponsored activities may not exceed 20% of the total class
meetings. Each absence must be reported to the instructor prior to its occurrence. Absences
are taken only to accommodate students as they represent the University in the event. The
allowed absences do not include practices or preparation times.

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 for Mercer Undergraduate Students

An undergraduate student who wishes to take academic courses elsewhere as a tran-
sient student and apply those credits toward a Mercer degree must obtain written approval
in advance from the student's advisor and the Registrar's Office. The student must have been
enrolled and attended classes at Mercer for at least one semester prior to requesting permis-
sion to study elsewhere. Transient Permission Forms are available in the Registrar's Office.
Failure to obtain written approval in advance may preclude acceptance of the transfer cred-
it. 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 accept-
ed is 9 semester hours.

A student must be in good academic standing to be approved to take courses as a tran-
sient student. Ordinarily, the last 32 semester hours of degree work must be earned in res-
idence 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 host
institution has regional accreditation and the student earns grades of C or better in the
courses. Course outlines (syllabi) and catalog information may be required before approval
for transient status is granted.

Courses taken at another institution 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 to 64 semester-hours (refer to section
on transfer credit). If 64 hours have previously been transferred from two-year colleges, tran-
sient credit will displace previously transferred course hours that are not needed for the stu-
dent's program completion.

It is the student's responsibility to request that a transcript from the other institution, con-
taining final grades, 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. Notations of warning, probation, and suspension will be added to the transcript.

1. Warning
   An academic warning shall be issued to students whose cumulative average is below 2.0. A student with an academic warning may return to academic good standing by achieving a cumulative average of 2.0 or higher.

2. Probation
   Students with a cumulative average below those listed in the following table will immediately incur the status of academic probation. Students with probationary status may be subject to specific conditions in order to enroll.

<table>
<thead>
<tr>
<th>Total Hours Earned:</th>
<th>Minimum Cumulative Grade Point Average:</th>
</tr>
</thead>
<tbody>
<tr>
<td>0–16</td>
<td>1.40</td>
</tr>
<tr>
<td>17–32</td>
<td>1.70</td>
</tr>
<tr>
<td>33–48</td>
<td>1.80</td>
</tr>
<tr>
<td>49–63</td>
<td>1.90</td>
</tr>
<tr>
<td>64–128</td>
<td>2.00</td>
</tr>
</tbody>
</table>

   (Students below 2.0 but at or above the averages listed in the table will continue to be warned.)

3. Suspension
   Students academically suspended from the University are neither permitted to enroll in any courses nor to participate in any University related activities. Students who fail to fulfill the conditions of their probationary status may be suspended. Students who fail to meet the required minimum cumulative grade point average on three consecutive occasions (including the summer term) will be subject to suspension for one term. Also, 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. Students may be re-admitted to the University with permission from an academic dean.

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.

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

University Honors Program (UHP)
(Formerly Honors Program-HON)

The University Honors Program (UHP) provides academically advanced students with the supportive environment needed to pursue their intellectual interests through research within distinctive paths of enrichment. The specific goals of the program include:

• Successful completion of a first year research seminar.
• Cultivating students who ask questions, think critically in answering those questions, make interdisciplinary connections in answering those questions, and can construct creative analytical responses when engaged in collaborative or independent problem solving.
• Cultivating students who obtain the distinctive characteristics necessary to compete successfully for graduate and professional school entrance, for national and international fellowships and scholarships, and for leadership roles in the student's chosen profession.
• Cultivating a community of scholars who are interested in sharing cultural, research, and leadership experiences across the tracks.

Exceptional students, either upon entrance to Mercer or after the end of their first semester, are invited to join the program based upon superior academic records in high school, demonstration of interest in their particular path, and an entrance interview. Each of the tracks is constructed to emphasize growth and development along that track during the student's career at Mercer, beginning with a first year course introducing students to the foundational concepts, methods, and terminology of academic research and documentation. In subsequent years, students will progress through their track, culminating in an advanced research and documentation project appropriate to their individual track. In addition to these two basic requirements, University Honors Program students must complete the coursework designated within their individual tracks, maintain a portfolio of their work that contains both developmentally appropriate content and reflection, participate in a designated number of University Honors Commons experiences, and maintain a minimum GPA as defined by their specific track.

General Requirements of the University Honors Program

• Demonstration of the student's growth within the track through the production of appropriate annual products as defined within the track;
• Maintenance of a portfolio of work generated by the student through the track;
• Presentation of work at BEAR Day, Engineering Expo, or a regional/ national conference appropriate to the track;
• Successful completion of a Culminating Project appropriate to the track;
• Participation in two University Honors Commons Events annually and submission of a reflective essay on each event. University Honors Commons events include but are not limited to field trips, experiences in the arts, multicultural events and experiences, academic lectures and events, and social gatherings. Schedules of University Honors Commons events will be distributed to Honors students on an annual basis.
• Maintenance of a minimum GPA appropriate to the track.
The Track of the University Honors Program

Mercer Research Scholars (Undergraduate Research)
John Thomas Scott, Director/Professor of History

The Research Scholars track is designed for students who wish to pursue undergraduate research under close faculty supervision in their chosen field in a traditional academic setting (laboratory, field, artistic, and/or archival). This track is open to students of all majors in the College of Liberal Arts, the Stetson School of Business and Economics, the Tift College of Education, and the Townsend School of Music. Students in this track must successfully complete the following requirements:

Course Requirements:

HON 105—Introduction to Academic Research (1 hour)—First Year
HON 205—Thesis Exploration Seminar (1 hour)—Second Year
HON 305—Honors Preceptorship (1 hour)—Third Year

NOTE: Students must either complete at least six hours in departmental research seminars and/or methodology courses or complete six hours of credit in HON 405 in their junior and/or senior as they work on their research project.

University Honors Commons Events and Reflections (2 annually)

Senior Honors Thesis/Project—Students will conduct extensive original research and produce an academic product (thesis, poster, show) in their academic major. The size and nature of the project will be commensurate with the student's academic major and determined in consultation with the student's faculty research mentor and the director of the Research Scholars track. Students in the Humanities and Social Sciences producing a work of original research, for instance, will complete an approximately fifty page Honors Thesis.

GPA Requirement: Students are required to maintain a minimum 3.5 cumulative GPA throughout their undergraduate career at Mercer and at graduation. Students who fall below 3.5 at any point in their undergraduate career will be subject to suspension and/or removal from the program. Such cases will be handled on an individual basis in consultation with the track director.

Mercer Service Scholars (Service Learning)
J. Chris Grant, Director/Associate Professor of Political Science

The Service Scholars track is designed for students who wish to receive an enhanced experience including leadership and service as well as scholarship. Each year 14-17 students are selected from the pool of entering freshmen for invitation to the Mercer Service Scholar Program. Selection for the program is based on the applicant having already demonstrated high levels of achievement in academic work as well as an advanced level of social consciousness evidenced through their record of engagement on campus and the community. This track is open to students of all majors in the College of Liberal Arts, the Stetson School of Business and Economics, the Tift College of Education, the Townsend School of Music, and the School of Engineering. Students in this track must successfully complete the following requirements:
Course Requirements:

HON 105—Introduction to Academic Research (1 hour)—First Year, Fall
MSS 111—Service and Society: Community (1 hour)—First Year, Fall
MSS 112—Service and Society: Leadership (1 hour)—First Year, Spring
MSS 222—Global Awareness and Project Development (2 hours)—Second Year
MSS 321—Service and Leadership in a Global Context (3 hours)—Summer after Second Year. NOTE: This course will be in the form of a Mercer on Mission experience.
MSS 322—Service and Leadership—Action and Vocation (3 hours)—Third Year

NOTE: Students may choose to register in their senior year for CSL 400 and earn up to 15 hours designing and implementing their culminating project.

NOTE: MSS students may choose to enroll in HON 305 their junior year in order to serve as a preceptor in HON 105. This course (HON 305) is optional for MSS students.

University Honors Commons Events and Reflections (2 annually)

Service and Leadership Requirements: 15 hours of service and 15 hours of leadership per semester per year in years 2 through 4 (sophomore through senior). In addition, students must attend monthly MSS meetings during their sophomore through senior years.

Culminating Project: Students will design and implement a culminating service and/or leadership project emanating from and/or centering on community based research. The nature and size of the culminating project will be commensurate with the student's major and determined in consultation with the MSS track director.

GPA Requirement: Students are required to maintain a minimum 3.5 cumulative GPA throughout their undergraduate career at Mercer and at graduation. Students who fall below 3.5 at any point in their undergraduate career will be subject to suspension and/or removal from the program. Such cases will be handled on an individual basis in consultation with the program director.

Mercer International Scholars (Study Abroad and International Studies)
Eric K. Spears, Director/Assistant Professor of Geography

The International Scholars track is designed for students who wish to pursue international studies and experiences at an advanced level and desire to pursue international research in the field and/or in the archives. This track is open to students of all majors in the College of Liberal Arts, the Stetson School of Business and Economics, the Tift College of Education, the Townsend School of Music, and the School of Engineering. Students in this track must successfully complete the following requirements:

Course Requirements:

HON 105—Introduction to Academic Research (1 hour)—First Year, Fall
HON 210—The Global South (1 hour)—First Year, Spring
HON 215—Non-Governmental Organizations (2 hours)—Second Year
HON 305—Honors Preceptorship (1 hour)—Junior Year
HON 325—Rethinking International Development: Religion, Agency, and Sustainable Practice (2 hours)—Third Year
FLL 252 (or equivalent) in a modern language (Chinese, French, German, or Spanish)

NOTE: Students may choose to register for HON 405 to earn three hours of credit per course as they work on their Senior Project.

University Honors Commons Events and Reflections (2 annually)

International Experience Requirements: Students must complete one of the following options:

Option 1: Study Abroad—Students fulfilling this option must complete a study abroad (outside of the United States) experience of at least two weeks either as a semester abroad, a faculty-led study tour, or a Mercer on Mission. To fulfill this requirement students must both complete the coursework required as part of the course(s) and submit a reflection on their experiences abroad. Students may fulfill this requirement either in one or multiple trips as long as each trip lasts at least one week.

Option 2: Global Ambassadors Program—Students fulfilling this option must participate for at least 45 hours in the Model Conferences (UN, EU, NATO, Arab League), Global Citizenship activities, and/or Cross-Cultural Friendships activities as outlined in Mercer's Global Ambassadors Program (GAP) over the course of their four years at Mercer. Specific activities and functions will be determined in consultation with the International Scholars track director and the GAP Director.

Senior Culminating Project—Students are required to design, create and/or implement a culminating NGO/Development-based International Research Report/Project. The nature and size of the report will be commensurate with the student's major and will be determined in consultation with the student's academic mentor in the major and the International Track Director.

GPA Requirement: Students are required to maintain a minimum 3.5 cumulative GPA throughout their undergraduate career at Mercer and at graduation. Students who fall below 3.5 at any point in their undergraduate career will be subject to suspension and/or removal from the program. Such cases will be handled on an individual basis in consultation with the track director.

Mercer Engineering Scholars
Phillip T. McCreanor, Director/Associate Professor of Environmental Engineering

The Engineering Scholars Track is a part of Mercer's University Honors Program which seeks to enrich the learning environment for both students and faculty members. By doing so, it promotes new and higher levels of excellence in student research and creative accomplishments. It particularly works to foster a sense of academic community among faculty members and students of outstanding ability through cultural events, sponsored activities, and interdisciplinary interactions. The Engineering Scholars Track provides exceptional students a program of study that presents challenges beyond the normal requirements for an undergraduate degree in the School of Engineering. The goals of the Engineering Scholars Track are to: (1) provide a common experience that challenges the students and faculty members both technically and non-technically and (2) provide project experiences that demonstrate knowledge and skills that exceed normal undergraduate requirements. Exceptional students are admitted to the Engineering Honors Track as freshman and rising sophomores by both invitation and application. This track is open only to students in the school of engineering. Students in Engineering Scholars Track must successfully complete the following requirements:
Course Requirements:

EGR 201 - Sophomore Engineering Honors I (1 hour)
EGR 202 - Sophomore Engineering Honors II (1 hour)
EGR 301 - Junior Engineering Honors I (1 hour)
EGR 302 - Junior Engineering Honors II (1 hour)
EGR 401 - Senior Engineering Honors I (1 hour)
EGR 402 - Senior Engineering Honors II (1 hour)

NOTE: Students that join the Engineering Scholars Track as an incoming Freshman are also required to complete EGR 101 (Freshman Engineering Honors I, 1 hour) and EGR 102 (Freshman Engineering Honors II, 1 hour).

Culminating Engineering Project—Students will work individually or in teams to conduct an extensive engineering project and produce an academic product (poster, podium presentation, article, etc.). The size and nature of the project will be developed in consultation with faculty research mentor(s) and the Director of the Engineering Scholars Track.

In addition, Engineering Scholars students will be expected to:

- Attend at least two University Honors Program Events & Reflections, or designated MUSE events (e.g., research presentations, technology training events, guest lectures) per year.
- Present work as a podium and/or poster presentation at the Engineering Exposition.

GPA Requirement: Students in the Engineering Scholars Track are required to maintain a minimum 3.3 cumulative GPA throughout their undergraduate career at Mercer and at graduation. Students who fall below 3.3 at any point in their undergraduate career may be allowed to continue in the Engineering Honors Program for a limited period on a probationary basis at the discretion of the Director of the Engineering Scholars Program.

Mercer Business Scholars
Linda L. Brennan, Director/Professor of Management

The Business Scholars track is designed for students who wish to pursue an enriched study in business. This track includes a combination of experiential and service learning with either international business exposure or undergraduate research. In addition, all Business Scholars will deepen their experiences in business, through internships and business engagement. In general, BBA Scholars students have the opportunity for greater interaction with faculty and business leaders. Only students pursuing the BBA are eligible to participate in the Business Honors track.

BBA Scholars students can distinguish themselves with an internship, as well as with a business-related research project or a study abroad experience. Students in this track must successfully complete the following requirements.

Course Requirements:

HON 105—Introduction to Academic Research (1 hour)—First Year, Fall
HON 210—The Global South (1 hour)—First Year, Spring
HON 215—Non-Governmental Organizations (1 hour)—Second Year, OR
BUS 102—Mediation Skills for Student Leaders (2 hours) AND
BUS 301—Finding Your Vocation—Second Year, Spring with

Summer Experience: Study Abroad—may be a Mercer on Mission, Business Studies Abroad, or Semester Exchange Program (hours vary)

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HON 305—Honors Preceptorship (1 hour)—Junior Year, OR
HON 325—Rethinking International Development: Religion, Agency, and Sustainable Practice (2 hours)—Third Year AND
BUS 478 – Business Research (1 hour) with Summer Experience: BUS 305 – Business Internship (3 hours)

In additional, BBA Scholars students will be expected to:

- Attend at least two University Honors Program Events & Reflections, or designated SSBE events (e.g., Executive Forum, Economics Speakers series) per year.
- Present work in the Junior and Senior poster exhibit (c.f. Bear Day).
- Participate in at least two (2) service-learning intensive courses (coded “V”).

GPA Requirement: Students are required to maintain a minimum 3.5 cumulative GPA throughout their undergraduate career at Mercer and at graduation. Students who fall below 3.5 at any point in their undergraduate career will be subject to suspension and/or removal from the program. Such cases will be handled on an individual basis in consultation with the track director.

Senior Honors Culminating Project—Students will define, develop and complete a research or service project in their academic major. The size and nature of the project will be commensurate with the student’s academic major and determined in consultation with the student’s faculty research mentor and the director of the Business Scholars track. Students may choose to register for HON 405 to earn three hours of credit per course as they work on their Senior Project.

GPA Requirement: Students are required to maintain a minimum 3.5 cumulative GPA throughout their undergraduate career at Mercer and at graduation. Students who fall below 3.5 at any point in their undergraduate career will be subject to suspension and/or removal from the program. Such cases will be handled on an individual basis in consultation with the track director.

Mercer Service Scholars

Each year 14-17 students are selected from the pool of entering freshmen for invitation to the Mercer Service Scholar Program. Students are selected from across all schools and programs that enroll traditional undergraduate students on the Macon campus. Individuals are selected on three criteria:

1. Outstanding academic credentials
2. A demonstrated record of service and leadership
3. Successful completion of an interview

Selected students are required to join a specially designed seminar in their first year at the university that emphasizes leadership and service skill development and to complete a senior project. Additionally, Mercer Service Scholars are required to complete three specific courses (MSS 222, MSS 331, and MSS 332) listed under Mercer Service Scholars in the College of Liberal Arts portion of this catalog.

President’s List and Dean’s List

Mercer undergraduate students are recognized for superior academic performance by inclusion on the President’s List and Deans’ Lists. Course load, grade point average, and
other specific conditions determine inclusion. Criteria for these lists are shown in the following table.

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<th>Minimum Normal Letter Graded Hours</th>
<th>Required Semester GPA</th>
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<tr>
<td>President’s List</td>
<td>12</td>
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<tr>
<td>Deans’ Lists</td>
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<td>Deans’ Lists</td>
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*Letter Grades: A, B+, B, C+, C, D, or F

Inclusion is subject to the following additional conditions:
1. No grades below C
2. Grades of Satisfactory on all Satisfactory/Unsatisfactory graded work in excess of the minimum normal letter graded hours
3. Students who have been found responsible for an Honor Code violation are not eligible for either list for the term in which the violation occurred

**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; and those with 3.85, summa 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 GPA’s 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 the departments of their majors; they will not be announced at graduation, but a notation of departmental honors will be entered on the students’ permanent records. The specific requirements for each department’s honors are listed in this catalog with the course requirements for the major, and details may be obtained from department chairs.

**Undergraduate Degree Requirements**

Undergraduate students must complete at least 32 credit hours and not less than one fourth of their minimum degree requirements at Mercer to be awarded a Mercer degree. 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 undergraduate degree. Students must, however, fulfill all degree requirements of their particular degrees of choice. Using one course to satisfy two different requirements (general education, major, minor, second major) is often referred to as "double dipping." For Mercer's undergraduate programs, students are allowed to double dip courses at the 100- and 200-level. However, a student may not use any combination of more than two 300- or 400-level courses to satisfy the requirements in different majors and/or minor programs.

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 programs. Students should see the specific requirements of their program of study in this catalog.

A student who wishes to complete a second major in a different school/college from that of his/her first major must fulfill the specific course requirements for the second major plus additional requirements that may be arranged on an individual basis. The student should consult an academic advisor in the second 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 advisor and department chair for the second major.

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.

Second Degree

Students who wish to have two different bachelor's degrees conferred simultaneously must complete: the general education requirements of both programs; both the usual and special requirements of a major or specialization in each program; and at least 18 credit hours more than the minimum required to earn one bachelor's degree.

Individuals who seek a second and different 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.

In cases where course work from a previous degree is used to fulfill requirements for any second degree, the grade point averages for the two degrees will be combined.

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 catalog, 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 are in a position to complete all requirements for graduation by the end of the spring semester may participate in the commencement ceremony for that academic year. Students to whom degrees have already been awarded during the current academic year (i.e., at the end of the previous summer or fall semester) may also participate in that year's commencement ceremony.

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 immediately following commencement, may petition the Office of the Registrar for special consideration to participate in the commencement ceremony.

Graduate students may participate according to the policies of their individual schools or colleges. (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.”)

Student Records (Transcripts)

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

Academic records accumulated in a professional school (i.e., law, medicine, and pharmacy) must be requested from that school.

The University does not provide copies of official transcripts received from other schools or institutions.

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 educational records. These rights include:

1. The right to inspect and review a student's educational records within 45 days of the day the Office of the Registrar receives a written 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 educational records if the student believes them to be 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 by the student, the Registrar (or another 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 the student is notified of the right to a hearing.

3. The right to consent to disclosures of personally identifiable information contained in the student’s educational 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 person employed by the University in an administrative, supervisory, academic, research, or support staff position (including law enforcement personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

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

Another exception which permits disclosure without student consent is disclosure to officials of another school, school system, or institution of post-secondary education where a student seeks or intends to enroll. Upon the request of an institution in which a student seeks or intends to enroll, the University will forward the student’s education records to the requesting institution. Upon request, the student may obtain a copy of the record that was disclosed and have an opportunity for a hearing as provided above.

As of January 3, 2012, the U.S. Department of Education's FERPA regulations expand the circumstances under which your education records and personally identifiable information (PII) contained in such records — including your Social Security Number, grades, or other private information — may be accessed without your consent. First, the U.S. Comptroller General, the U.S. Attorney General, the U.S. Secretary of Education, or state and local education authorities (“Federal and State Authorities”) may allow access to your records and PII without your consent to any third party designated by a Federal or State Authority to evaluate a federal- or state-supported education program. The evaluation may relate to any program that is "principally engaged in the provision of education," such as early childhood education and job training, as well as any program that is administered by an education agency or institution. Second, Federal and State Authorities may allow access to your education records and PII without your consent to researchers performing certain types of studies, in certain cases even when we object to or do not request such research. Federal and State Authorities must obtain certain use-restriction and data security promises from the entities that they authorize to receive your PII, but the Authorities need not maintain direct control over such entities. In addition, in connection with Statewide Longitudinal Data Systems, State Authorities may collect, compile, permanently retain, and share without your consent PII from your education records, and they may track your participation in education and other programs by linking such PII to other personal information about you that they obtain from other Federal or State data sources, including workforce development, unemployment insurance, child welfare, juvenile justice, military service, and migrant student records systems.

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

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 concerning 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 the U.S. Army Cadet Command is to commission future officers to serve as the leadership of the U.S. Army. Students who qualify for and successfully complete the ROTC Program will be commissioned as 2nd Lieutenants in the U.S. Army, the Army National Guard, or the U.S. Army Reserves. Students incur no obligation by simply taking military science classes; any Mercer student may take a basic ROTC course, 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 leadership excellence. Upon being commissioned, lieutenants will be confident of their ability to be competent Army leaders and will be 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 Armed Services, completing two years at a service academy, completing two years of Navy or Air Force ROTC Training, or completing three or four 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 and seniors or students in the last two years of graduate study. Students must meet the following requirements for enrollment in ROTC courses:

1. Must be a full-time student earning a baccalaureate or advanced degree
2. Must be at least 17 years old and not older than 30 years of age at graduation
3. Must be of good moral character, as normally substantiated by having no record of disciplinary problems or civil convictions
4. Must be a citizen of the United States
5. Can have no more than three dependents and cannot be the sole parent of any dependents
6. Must be medically fit
7. Must be proficient in the English language

Students may apply for a wide variety of Army ROTC scholarships. Incoming freshmen may apply online for a four year ROTC scholarship at goarmy.com/rotc and must list Mercer University (FICE Code 001580) as one of their schools of choice. Students currently enrolled at Mercer may apply for scholarships through the start of their junior year or the

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beginning of the second-to-last year in a graduate program. Students may also apply for a Guaranteed Reserve Forces Duty Scholarship that ensures they will serve in the Army Reserve or Army National Guard rather than on Active Duty. Students must understand that scholarships will be awarded, based upon availability, to the most qualified students using the Army’s “Scholar, Athlete, Leader” model who have expressed a desire to serve as Commissioned Officers in the U.S. Army.

Army ROTC scholarship benefits include:

1. Full tuition
2. A $1,200 per year book allowance to help offset the cost of books
3. A monthly cadet stipend of $300 (freshmen), $350 (sophomore), $450 (junior), or $500 (senior)
4. Free room and board from Mercer University

Basic scholarship eligibility includes:

1. Being a U.S. Citizen
2. Being at least 17 years old and not older than 30 years of age by June 30th of graduation year
3. Earning a minimum score of 920 on the SAT (not necessary for junior- and grad-level degree applicants)
4. Earning a minimum CGPA of 2.5
5. Being medically qualified
6. Having the physical ability; must pass the standard Army Physical Test
7. Having a good moral character
8. Being enrolled full-time in an approved academic discipline; full-time is defined as completing 12 or more credit hours per semester.

Extracurricular Activities

Army ROTC students in good standing are eligible to participate in Ranger Adventure Training, which is conducted as part of the ROTC 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 members, and cross country team members.

Credits

All Military Science courses will be taken for a letter grade and not on an 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 of 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 HIS 330 (The First and Second World Wars, 3 credit hours). Senior cadets only, who were wait-listed and unable to schedule HIS 330 during their freshman, sophomore or junior years, may substitute HIS 356 (Civil War and Reconstruction) for HIS 330.

The Mercer Global Ambassador Program

The Mercer Global Ambassador (GAP) Program is designed to cultivate a future generation of forward thinking Mercerians poised to make important contributions to the global community. The program is developed to supplement the education of any Mercer student interested in broadening the horizons of their knowledge and education beyond the borders of the United States. The primary objectives of this program are to:

1. Produce world citizens who are well informed and sensitive to cultural diversity
2. Promote cross-cultural communication and awareness
3. Encourage Mercer students to broaden their scope of service to include the international arena
4. Promote global education and awareness on the Mercer campus
5. Enhance the credentials of Mercer students with this special offering

Upon the successful completion of the program, students will receive a letter recognizing their efforts, listing their works and designating them as Mercer Global Ambassadors. The students’ university transcripts will indicate completion of the program.

Students must apply for admission into the Global Ambassador Program. To qualify, students must be in good academic standing and have an overall GPA of 3.0 or higher. Interested students become eligible to apply by the second semester of full-time enrollment at Mercer University. If interested, please contact Dr. Eimad Houry in the Department of Political Science for an application form or to ask any questions about the GAP.

Becoming a global ambassador is an academic and experiential process that requires learning and applying that knowledge for the betterment of global understanding and communication. In order to qualify for recognition through the GAP, a Mercer student must do the following:

I. Academic Requirements

A global ambassador is a conduit for inter-cultural communication, building bridges to enhance mutual respect and understanding between cultures. To accomplish this task, the student must study and reflect on the language, history, people, and current conditions of other societies. To this end, the academic component of the GAP entails completing all of the following:

1. Course Work: Courses taken to satisfy this requirement for the GAP cannot be used to satisfy the course requirements of another program. GAP students must take a minimum of two courses (or 6 semester hours) from two of the following groups of courses:
   (a) Art: ART 368
   (b) Christianity: CHR 356, CHR 357
2. **Foreign Language Competency**: Acquired through the completion of at least two semesters of foreign language courses beyond the first year introductory courses required of all CLA students. Specifically, GAP students should complete the 251 and 252 sequence.

3. **Study Abroad**: Students must study/live abroad for at least one full semester. Whenever possible, students will be encouraged to study in countries where they will have service opportunities in the hope of involving them with the local community.

4. **Model Conferences**: Mock conferences are held to mimic the debates of several international bodies such as the Model United Nations, Model European Union, Model Arab League, Model NATO, just to mention a few. Students can participate in one or more of these conferences in order to learn about the most pressing global issues and conditions affecting lives at home and abroad.

### II. Co-curricular/Experiential Requirements

GAP students are expected to apply their knowledge in the service of international issues either at home or abroad. A minimum of 60 hours is required for the life of the program and can be attained through involvement in at least two of the following types of activities:

1. **Community Outreach**: This may involve organizing global awareness events or exercises for local schools, K-12, or hosting events on and off the Mercer campus designed to educate the Mercer and Macon communities about important international issues of concern locally and/or globally. Interested students would be encouraged to prepare interactive lesson plans on international issues of relevance to either share with local teachers, or to present in local schools.

2. **Global Citizenship**: In keeping with Mercer’s mission to make a difference, GAP students will participate in an international service-learning program. This could be done on the home front by working with immigrant communities as translators, or even teaching English as a second language. However, a more adventurous and ambitious undertaking would be to consider doing good work abroad. There are opportunities available all over the globe and many are offered for short periods of time like a week. Either way, students will have the opportunity to apply the knowledge they acquire in the classroom.

3. **Cross-cultural Friendships**: A large number of international students arrive to study at Mercer every year. GAP students can serve as hosts and develop friendships over time. Ambassadors can also serve as conversation partners with foreign students enrolled at the English Language Institute (ELI) at Mercer.

4. **Study Abroad Peers and Tutors**: Although a large number of students express an interest in studying abroad most never do because of uncertainties about the host countries and conditions. GAP students can serve as an important resource to inform prospective study abroad students about the experiences they have had traveling and living in other countries.
Students are responsible for demonstrating and documenting their own hours in conjunction with the director of the program. In addition, it is important to point out that all of the service-learning activities will be carried out under faculty supervision and will involve academic exercises that require reflection and analysis. Some, but not all the service-learning work can qualify for independent study hours at the discretion of individual departments.

**Pre-Professional Work**

In addition to the regular courses leading to the Bachelor of Arts, Bachelor of Business Administration, Bachelor of Science, Bachelor of Science in Education, Bachelor of Science in Nursing, 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, nursing, pharmacy, dentistry, veterinary medicine, physical therapy, physician assistant, and medical technology. A student expecting to enter any of the health-related professions should consult the Coordinator of Pre-Professional Programs in the Office of Academic and Advising Services. A student expecting to enter the legal profession should consult with one of the pre-law advisors on the Mercer-Macon campus. A student expecting to enter the field of education should consult the chair of the Department of Teacher Education. A student expecting to enter the profession of theology should consult a faculty member in the Department of Christianity.

**Pre-Legal 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 abilities to write well, to read critically, and to reason logically. Indeed, almost any academic major can provide satisfactory preparation for a student entering law school. The prospective law student is advised to consult the catalog of the Walter F. George School of Law for information concerning admission requirements.

**Mercer Law School Guaranteed Acceptance Program**

Mercer University recognizes that some undergraduate applicants are considering a career in law. To help such applicants pursue their dream and to prepare for postgraduate study in law school, the Admissions Committee of Mercer University’s Walter F. George School of Law and the Office of Undergraduate Admissions offer a special program for qualified high school seniors. Qualified students, upon their enrollment for undergraduate study at Mercer University, will be guaranteed acceptance to the Mercer Law School for either of the first two academic years following their graduation from Mercer’s bachelor’s degree program.

To qualify for guaranteed acceptance to the Mercer Law School, the Mercer undergraduate must meet the following requirements:

1. Score a combined 1800 on the SAT or graduate in the top 5% of the high-school class;
2. Have a cumulative GPA of at least 3.50 at the time of Law School application and complete the Mercer undergraduate degree with at least a 3.50 cumulative GPA;
3. Complete at least 60 undergraduate credit hours at Mercer University;
4. Score at least at the 65th percentile of the Law School Admissions Test (LSAT);
5. Demonstrate a commitment to public service; and
6. Demonstrate the character, fitness and capability of satisfactorily completing the Law School program and being admitted to the bar.
Pre-Theology

The Roberts Department of Christianity in the College of Liberal Arts of Mercer University seeks to expose all Mercer students to the broad Christian tradition and, for those students who intend to enter the Christian ministry, provides 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 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 as citizens of the world.

Pre-Health Professions
(Pre-Dental, Pre-Medical, Pre-Medical Technology, Pre-Pharmacy, Pre-Physical Therapy, Pre-Physician Assistant, and Pre-Veterinary)

Students who are preparing themselves to enter a health-related professional school after completing their course of study at Mercer University are considered to be on a “pre-health track”. While a pre-health track includes the courses required as preparation for health-related professional schools, pre-health tracks are not academic majors. It is recommended that students on pre-health tracks complete the requirements for a Bachelor of Arts degree, a Bachelor of Science degree, or a Bachelor of Science in Engineering degree as they prepare for professional school. Most successful practitioners and most health-related professional schools recognize the value of earning an undergraduate degree and recommend completing a bachelor’s degree program before matriculation into professional school. Many professional schools show no preference for any particular academic major when reviewing applications, so it is recommended that a pre-health student investigate the preference of their target professional schools then base their choice of academic major solely upon his or her enthusiasm for an area of study.

Professional schools look for individuals from diverse backgrounds who possess a variety of skills and interests, but who have a firm foundation in the basic sciences. The fundamental importance of mathematics to successful study of the sciences means that mathematics competency at or above the pre-calculus level (MAT 133) is prerequisite to beginning a pre-health track. As the admissions requirements vary somewhat between health-related professional schools, pre-health students must investigate the requirements of the professional schools to which application is likely and discuss these requirements with the pre-health advisor. Most medical schools’ admissions requirements include: one year of general chemistry with laboratories (CHM 111 and 112), one year of physics with laboratories (PHY 141, 142; or PHY 161, 162), one year of introductory biology with laboratories (BIO 211 and 212), and one year of organic chemistry with laboratories (CHM 221 and 222). Some medical schools have additional requirements or recommendations, such as calculus (MAT 191) and statistics (STA 126). Schools of dentistry and optometry often recommend certain additional courses, especially microbiology (BIO 303) and introductory psychology (PSY 101). Colleges of veterinary medicine often require additional courses in biology, especially comparative animal physiology (BIO 325).

It is possible, however, for an exceptional pre-health student to complete a pre-health track and to proceed to a health-related professional school without completing a bachelor’s
degree. Students who complete 90 semester hours of credit at Mercer University, including 44 semester hours of natural sciences and all of the general education requirements of the College of Liberal Arts, are eligible for the Bachelor of Science in Health Sciences degree. The Bachelor of Health Sciences degree will be awarded upon the successful completion of one year of work at any accredited school of medicine, dentistry, veterinary medicine, pharmacy, physician's assistant, physical therapy, occupational therapy, or any NAACLS-approved school of medical technology. The Special Pre-Health Programs are described in subsequent sections.

1. Upon admission to the respective graduate health science program, the student will prepare a transient request form detailing the 30 or more semester credit hours that will be completed during the first year of post-baccalaureate study.

2. Upon receipt of the transient request form, the Associate Dean of the College of record will determine, in consultation with the Pre-Health Advisor and other science faculty, whether the proposed curriculum is appropriate.

3. The Office of the Registrar will review the recommendation of the Associate Dean and determine whether the transient request should be approved. The decision of the Registrar is final.

4. Students pursuing the BS degree in Health Science, with the previously mentioned approvals, will forego the expectation of the final 32 hours in residence at Mercer.

5. Students are required to formally transfer this credit back to Mercer University before conferral of the degree.

Guaranteed Admission Programs for the Mercer University School of Medicine

1. Guaranteed Admission Program

Through a partnership with the College of Liberal Arts, the Mercer University School of Medicine offers a Guaranteed Admission Program for their Doctor of Medicine degree. Up to ten incoming freshmen will be selected each year for this special program. To be eligible for the program, candidates must be Georgia residents and United States citizens. High school students must apply early in the fall of their senior year in order to complete the admission process by December 1 of their senior year. Requirements for application include, but are not limited to:

1. A score of at least 1300 (math, verbal) on the SAT, or a 29 on the ACT, and a high school GPA of 3.70 or higher on a 4-point scale;

2. Letters of recommendation (three letters of character reference);

3. Completion of all medical school admission requirements within the College of Liberal Arts (CLA) at Mercer University (consult the list of pre-requisites for admission to MUSM at http://medicine.mercer.edu/Admissions/md/early-decision;requirements);

4. Completion of all medical school pre-requisite courses by the time of admission to MUSM (consult the list of pre-requisites for admission to MUSM at http://medicine.mercer.edu/Admissions/md/early-decision;requirements);

5. Eligibility to graduate with a bachelor's degree within four years of matriculation;

6. Maintenance of undergraduate GPA's (both cumulative and BCPM) of 3.5 or higher (checked August 1st following year 3);
7. Achievement of a score of 28 or higher on the Medical College Admission Test (MCAT) in time to meet the Early Decision Program deadline (currently June), with a score in the biological sciences component of at least 8;

8. Attendance of at least 80% of the program meetings;

9. Completion and documentation of at least 100 hours of community service and/or shadowing experience during the first three years of undergraduate work;

10. Application to the Early Decision program at MUSM following completion of the third year of undergraduate study (interview waived);

11. Passage of a background check upon application to MUSM; and

12. Possession of no institutional or legal actions against them.

2. Dual Biomedical Engineering Medical School Admissions Program

Within the School of Engineering, the pre-medical requirements may be met by students specializing in biomedical engineering. The goal of this problem-solving-oriented curriculum is to prepare students 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 directly to the Dual Biomedical Engineering Medical School Admissions Program (DBEMSA P). Students who successfully complete this program are guaranteed admission to the Mercer University School of Medicine. More information is available at the Biomedical Engineering Department's office.

Guaranteed Admission Program for the Mercer University

Georgia Baptist College of Nursing

The Guaranteed Admission Program offers guaranteed placement in the College of Nursing for Mercer University College of Liberal Arts students who participate in this program. Specific requirements of the Guaranteed Admission Program include:

1. Declaration of program participation in the fall of year 1;

2. Maintenance of a 3.0 science grade point average AND a 3.0 cumulative grade point average (first GPA check in May of year 1);

3. Achievement of the minimum score on the TEAS;

4. Completion of all pre-nursing courses (61-62 hours) at Mercer University, with the exception of Advanced Placement or International Baccalaureate credits and/or limited transient courses with permission of GBCN;

5. Submission of the application for nursing admission, as well as all required documents and scores, to Georgia Baptist College of Nursing by January 15 of year 2 for fall matriculation (application fee waived for Mercer pre-nursing students).

Preparation for Georgia Baptist College of Nursing at Mercer University requires completion of a specific set of coursework. Students should consult the Student Handbook for the Pre-Nursing Tracks for details and direct questions to the pre-health professions advisor on the Macon campus.

Guaranteed Admission Plus Degree Program for Pharmacy

at the Mercer University College of Pharmacy

The Guaranteed Admission Plus Degree Program (GAPDP) in Pharmacy is the result of a collaboration between the College of Liberal Arts (CLA) and the College of Pharmacy (COP). Students who meet all of the criteria of the GAPDP will be accepted into the Doctor
of Pharmacy program at the COP in Atlanta after the successful completion of 90 credit hours of undergraduate coursework at the CLA in Macon and successful admissions and interview at COP. The Mercer University College of Liberal Arts will award the Bachelor of Science in Health Science degree to those GAPDP students who then successfully complete one year of work in the Doctor of Pharmacy program at the College of Pharmacy. Students must apply to enter the Mercer University College of Liberal Arts as first-time undergraduate students in the College of Liberal Arts. The GAPDP is not available to transfer students. Once admitted to the CLA, pre-pharmacy students must declare themselves as participants in the GAPDP in the fall of their first year and adhere to the specific requirements for the GAPDP for the duration of their time at Mercer. Requirements include, but are not limited to:

1. Declaration of program participation in the GAPDP by the end of the spring semester of the first year.

2. Completion of the required CLA courses by May of year 3, with coursework totaling 90 credit hours; transfer hours not allowed. The specific coursework required for the pre-pharmacy GAPDP can be obtained from the pre-health professions advisor on the Macon campus. Dual-enrollment credit hours earned while the student was still in high school will be accepted to fulfill the pre-pharmacy program requirements if approval has been granted by the Director of Admissions at the College of Pharmacy. (Note that dual-enrollment courses can fulfill academic requirements, but they do not contribute to the 90 credit hours that GAPDP students are required to earn while in residence.)

3. Maintenance of a cumulative GPA of 3.0 higher (first GPA check is in August following completion of second year).

4. Attendance of Macon campus visits by representatives from the COP Doctor of Pharmacy (PharmD) degree program every fall.

5. Declaration of the Biology major prior to completion of 60 credit hours of coursework (see the section on Requirements for Majors and Minors in the College of Liberal Arts).

6. Obtain 250 hours of acceptable, documented pharmacy experience before August 1 following the second year.

7. Early decision application to the COP no later than Aug. 1 following completion of second year. (Note that this requires a primary application through PharmCAS and a secondary application sent directly to the COP; a PCAT score and letters of recommendation must be included.)

8. Achievement of a minimum score on the PCAT and submission of that score to PharmCAS by August 31 of third year.

9. Completion of a successful interview with representatives of the COP PharmD program during third year.

10. Application for May graduation from the CLA during the fall of year 4 to claim the B.S. in Health Sciences degree in May of year 4.

### Guaranteed Admission Plus Degree Program for Physician Assistant at the Mercer University College of Health Professions

The Guaranteed Admission Plus Degree Program (GAPDP) for Physician Assistant is the result of a collaboration between the College of Liberal Arts (CLA) and the College of Health Professions (CHP). Students who meet all of the criteria of the GAPDP will be accepted into the Master of Medical Sciences (MMSc) program at the CHP in Atlanta after
the successful completion of 90 credit hours of undergraduate coursework at the CLA in Macon and successful admissions interview at CHP. The Mercer University College of Liberal Arts will award the Bachelor of Science in Health Science degree to those GAPDP students who then successfully complete one year of work in the MMSc program at the College of Health Professions. Students must apply to enter the Mercer University College of Liberal Arts as first-time undergraduate students in the College of Liberal Arts. The GAPDP is not available to transfer students. Once admitted to the CLA, pre-physician assistant students must declare themselves as participants in the GAPDP in the fall of their first year and adhere to the specific requirements for the GAPDP for the duration of their time at Mercer. Requirements include, but are not limited to:

1. Declaration of program participation in the GAPDP by the end of the spring semester of the first year.

2. Completion of the required CLA courses by May of year 3, with coursework totaling 90 credit hours; transfer hours not allowed. The specific coursework required for the pre-physician assistant GAPDP can be obtained from the Mercer pre-health professions advisor on the Macon campus. Dual-enrollment credit hours earned while the student was still in high school will be accepted to fulfill the pre-PA program requirements if approval has been granted by the Director of Admissions at the College of Health Professions. (Note that dual-enrollment courses can fulfill academic requirements, but they do not contribute to the 90 credit hours that GAPDP students are required to earn while in residence.)

3. Maintenance of a cumulative GPA of 3.2 or higher and a natural science GPA of 3.2 or higher (first GPA check is in August following completion of year 2).

4. Attendance of Macon campus visits by representatives from the MMSc program at the CHP every fall.

5. Declaration of the Biology major prior to completion of 60 credit hours of coursework.

6. Obtain 1000 hours of acceptable, direct patient care experience before matriculation into the MMSc program, with 500 hours completed by the time of application in January of year 3.

7. Early decision application to CHP no later than Jan. 1 of third year. (Note that this requires a primary application through CASPA and a secondary application sent directly to the CHP that includes a GRE score, documentation of direct patient care experience, and letters of recommendation.)

8. Achievement of 300 or higher combined GRE score (Verbal and Quantitative scores), 143 minimum Verbal score, 141 minimum Quantitative score, and 3.0 minimum Analytical Writing score.

9. Completion of a successful interview with representatives of the CHP MMSc program during third year.

10. Application for May graduation from the CLA during the fall of year 4 to claim the B.S. in Health Sciences degree.

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 area of music. Mercer's teacher education programs are approved by the Georgia Professional Standards Commission and accredited by the National Council for Accreditation of Teacher Education. 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 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 field, 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 a teacher education program, students must maintain a 2.5 cumulative GPA and a 2.75 GPA in all courses required for certification, including 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 catalog for a more detailed description of the various teacher education programs.

Admission to baccalaureate study at Mercer does not include admission to an undergraduate teacher education program. All information and forms concerning teacher education admission criteria are included in Mercer University's Professional 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 that are maintained during the academic year prevail; 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 University Center, 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 at the University. The OIP is responsible for the study abroad program, student and faculty exchange programs, international student and scholar services (F-1 and J-1 visa advising) and the English Language Institute (ELI). The OIP manages the University's relationships with foreign universities and other overseas academic programs. The OIP's mission is to support students and faculty in each of these areas of international education. In addition, the OIP works with the Office of Admissions on the recruitment and matriculation of international students.

The Study Abroad Program

The Office of Study Abroad facilitates foreign educational experiences for students in their major areas of study. A study abroad experience is a fundamental 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 in modern societies. They also deepen their own cultural and personal values through reflection. Mercer's study abroad programs prepare students for life in the complex and interdependent world of the twenty-first century.

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Semester or Year-long Experiences

Study abroad opportunities are available to a variety of undergraduate majors in each of the colleges and schools. Mercer undergraduates can participate in one of three types of semester- or year-long study abroad programs: Student Exchange Programs, Mercer in Oxford, and International Transient Study Abroad Programs.

Student Exchange Programs

Mercer has direct exchange relationships with universities in Germany, Hong Kong, Japan, Morocco, Scotland, South Korea, Sweden, and Thailand. In addition, Mercer belongs to the ISEP (International Student Exchange Program) consortium, which consists of study partners in approximately 40 additional countries.

When students choose an exchange program or a Mercer Semester program for study abroad, they earn both G.P.A. credits and hours that apply to their Mercer degree requirements.

Mercer in Oxford

The Oxford Overseas Study Course, which is a tutorial program modeled after The University of Oxford’s method of education, is a competitive study abroad option for Mercer's students. Mercer is one of three private American campuses invited to participate in this selective academic program. While Mercer students do not matriculate into one of Oxford's colleges (this is reserved for Oxford degree-seeking students only), they are based in-part at St. Peter's College under the supervision of Dr. Francis Warner, Lord White Fellow (now Emeritus Fellow) and Tutor in English Literature. Mercer students are given many of the same study and social privileges as their Oxford 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 G.P.A. for initial consideration. The program is open to all eligible Mercer students. Students are required to apply one year (two semesters) in advance for the program; space is very limited and is awarded on a competitive basis.

International Transient Study Abroad Programs

Students who enroll in an international transient program will be able to take courses abroad to satisfy requirements for graduation and that will transfer into the total number of hours a student has completed but which will not factor into the student’s Mercer G.P.A.

Short-term Study Abroad Programs

Faculty-led Study Abroad Programs

Mercer University offers a variety of short-term, faculty-led study abroad programs on an annual basis. These programs normally take place during the summer sessions. Shorter study tours, however, are frequently offered during the fall or spring breaks as a field component to specific courses.

Faculty-led study abroad programs encourage students to learn more about another culture and earn Mercer academic credit, while under direct instruction from a Mercer professor. This type of study abroad program also enables Mercer
professors to mentor their students in a different cultural setting. Faculty-led study abroad programs usually last from two to five weeks and range in the number of credit hours given (normally three-to-six hours of credit). Mercer faculty-led study abroad programs have taken place in Australia, Belize, Brazil, Costa Rica, Dubai, France, Greece, Italy, Japan, Moldova, Scotland, Senegal, and Tanzania. The types of faculty-led study abroad programs will vary by professor(s) and academic year.

**Mercer on Mission**

Young men and women today are searching for ways to make their lives meaningful in an increasingly complex world. To this end, students are volunteering for community service projects in record numbers. As an authentic faith-based university, Mercer University is responding to this yearning on the part of its students through an innovative study abroad and service-learning program called **Mercer on Mission**. The test of authentic faith is action in the developing economies of the world. Mercer on Mission is a faculty-led study abroad program that offers six hours academic credit and incorporates an international service-learning project. Since the year 2007, Mercer on Mission has taken students to Brazil, Costa Rica, China, Guatemala, Kenya, Liberia, Senegal, South Africa, Thailand, and Vietnam.

**Related Study Abroad Information**

All students accepted into a Mercer semester or year-long exchange program, Oxford program or international student transient program are required to take an 8-week, one-credit-hour course called **ISA 101, Cross-cultural Competency in Study Abroad**. This course explores the cultural nuances of living and studying overseas and gives the student the necessary tools for a successful international learning experience. See the director of international education for more details.

**General Study Abroad Acceptance Criteria***

**Mercer Student Exchange Programs**

- G.P.A. of 3.0 or higher
- Two letters of recommendation from Mercer faculty members
- Acceptance by the Mercer partner institution

**Mercer in Oxford**

- G.P.A. of 3.5 or higher
- Two letters of recommendation from Mercer faculty members
- Acceptance given by Mercer University, per review of student’s application by the Oxford Overseas Study Course

**Mercer Faculty-led Study Abroad Programs**

- G.P.A. of 2.5 or higher
- Student meets pre-requisites (if any)
- Acceptance given by the faculty program director
Mercer on Mission Programs

- G.P.A. of 2.5 or higher
- Students write a reflection essay
- Students meet pre-requisites (if any)
- Acceptance given by the faculty program director and Dean of Chapel

International Transient Study Abroad Programs

- Minimum G.P.A. requirements vary by program and site.
- Please consult with a study abroad advisor for more information.

*These acceptance criteria are generally stated in this catalog. Visit the Office of Study Abroad or consult with the program’s website at www.mercer.edu/studyabroad.

Every student who studies abroad must get approval from his or her academic advisor and the coordinator of study abroad programs. 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 Language and Literatures”). Students may also earn elective credit in the languages of Arabic, Czech, Danish, Chinese, Italian, Japanese, Korean, and Swedish at Mercer’s partner study programs.

Students with a major in International Affairs are required to study abroad for at least one semester.

General Study Abroad Program Costs**

**Mercer Student Exchange Programs**

- Mercer Tuition
- Mercer Room & Board
- $500 Exchange Program Administrative Fee
- Study Abroad Insurance Plan
- Travel-related costs are separate

**Mercer in Oxford**

- Fall Semester (September – December): Mercer Tuition
- Spring Semester (January – mid-June): Mercer Tuition plus the excess of the costs of the Oxford program (approximately $6,000 more than Mercer semester tuition)
- $500 Study Abroad Administrative Fee
- Study Abroad Insurance Plan
- Travel-related costs are separate

**Mercer Faculty-led Study Abroad Programs**

- Mercer Tuition
- Travel-related costs
- $50 Study Abroad Administrative Fee
- Study Abroad Insurance Plan
Mercer on Mission (International Service-Learning Program)

- Six hours of Mercer credit (required)
- $50 Study Abroad Administrative Fee
- Study Abroad Insurance Plan
- Note: Students receive a competitive travel grant

Mercer International Transient Programs

- Pay overseas tuition
- Pay overseas room and board
- Study Abroad Insurance Plan
- $250 Administrative Fee
- Travel costs

**Note: These explanations of program fees are a general indicator of student costs and do not accurately reflect the actual program costs or their related travel expenses. All fees are subject to change. Please consult with a study abroad advisor about financial aid matters.**

Students interested in studying abroad can obtain further information from the Office of Study Abroad in Ryals Hall. More information can be gathered from the department's website at [http://www.mercer.edu/studyabroad](http://www.mercer.edu/studyabroad). Telephone and e-mail inquiries can be made at (478) 301-2573 or at studyabroad@mercer.edu.

Mercer Exchange Programs

The OIP manages all student and faculty exchange programs at the University. Student exchange programs are usually for one semester and are done in partnership with another foreign university. Mercer students can participate in exchange programs for undergraduate academic credit at the following universities: Al Akhawayn University (Morocco), Bamberg University (Germany), Karlsruhe University (Germany), Hong Kong Baptist University (China), Kalmar University (Sweden), Lulea University (Sweden), The University of Aizu (Japan), Seinan Gakuin University (Japan), the University of the West of Scotland (formerly known as Paisley University) (Scotland), Yonok University (Thailand) and Yonsei University (South Korea). Students interested in participating on any of these exchange programs should contact the Office of International Programs at (478) 301-2573 or at oip@mercer.edu.

Mercer faculty can participate in an existing professorial exchange program, such as at Seinan Jo Gakuin University (Japan), or propose a new academic linkage with a foreign university. There are other student and faculty exchange relationships for the Medical School in Japan, South Korea, and Thailand. The medical exchange programs are exclusively reserved for people in that professional school. In addition, instructors at the English Language Institute (ELI) can participate in an academic exchange with Point Language School (Brazil). Faculty members interested in arranging an exchange program should contact the director of international education at (478) 301-2573.

International Student and Scholar Services

The International Student and Scholars' Program mission is to advise Mercer students with F-1 visas and exchange students/scholars with J-1 visas. The coordinator of international student and scholar services is the person responsible for advising Mercer's international community on these federal immigration regulations. In addition, the program advisor orient Mercers international community on the cultural adjustment to the classroom and
the campus. The coordinator also serves as the advisor for the joint international student-study abroad club, Mercer Embassy.

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

English Language Institute

Offered on the Atlanta campus, the Mercer University English Language Institute (ELI) is designed to assist international students with developing English language skills at levels sufficient to succeed in an American academic setting. Grammar, reading, writing, and speaking skills are taught, using an integrated approach. These skills are reinforced in the computer language laboratory. Students who successfully complete the ELI program (level six) 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. There are six eight-week academic sessions that begin in August, October, January, March, May, and July.

International students interested in a degree program in Macon may take ELI courses in Atlanta prior to matriculation at a Mercer college or school. Upon successful completion of the Atlanta ELI, international students may transfer to the Macon campus. Please refer to the International Admissions criteria in the catalog for more information.

For more information about enrolling at the English Language Institute, visit the department’s website at www.mercer.edu/eli, send an e-mail inquiry to eli@mercer.edu, or telephone (678) 547-6151.
College of Liberal Arts

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.

University General Education Requirements

Communication: (12-20 hrs*)
- Written Communication: INT 101, INT 201, WRT 120, GBK 101
- Oral Communication: INT 301
- Foreign language competency (0-8 hrs*)

Religion: (3 hrs.)
One course from the Religious Heritage block:
CHR 101; CHR 150; CHR 170; ENG 225; HIS 160; PHI 240

Humanities/Fine Arts: (6 hrs)
One course from the Creative Expression block:
ART 106, 107, 115, 116, 223, 224, 225, 226, 254; ENG 226; ENG 233; ENG 234; ENG 235; ENG 237; HIS 145; JMS 220, 225, 230; MUS 151; PHI 260, 265, 269; PHO 230; THR 115, 218; WLT 101

One course from the Western Heritage block:
CHR 210, 270; CLA 101, 102; ENG 224, 263, 264; FLL 195; GBK 202; HIS 110, 165; PHI 190, 230

Behavioral/Social Science: (3 hrs)
One course from the Human Behavior and Society block:
AFR 190, 210; ANT 101; COM 230; COM 250; ECN 150; ECN 151; ENV 250; GEO 111; GHS 200; JMS 101, 240; PHI 237; POL 101; POL/IAF 253; PSY 101; SEP 200; SOC 101, 210; WGS 180

Quantitative Reasoning: (3-4 hrs.)
One course from the Mathematical Reasoning block:
CSC 204; MAT 104, 141, 191; PHI 180; STA 126
Scientific Reasoning: (4 hrs)

One course from the Natural World block:

BIO 102, 110; CHM 110, 111; ENB 105; ENB 150; PHY 102, 105, 108, 109, 115, 141, 161

Additional College of Liberal Arts requirements:

Additional Depth of Understanding

Experiential Requirement (0 hrs.)

First-Year Freshman Experience (1 hour)

**General Education in the College of Liberal Arts**

The curriculum of the College of Liberal Arts is composed of three interrelated components: general education, depth of study, and electives. The general education requirements are satisfied through the Foundational Studies program which is designed to introduce students to the knowledge, skills, and perspectives needed to engage self, community, and an interconnected, yet diversified world.

**Foundational Studies**

As the founding college of Mercer University, the College of Liberal Arts is defined by its enduring mission of education and engagement, the passionate pursuit of truth, and a history of innovative pedagogy. A liberal arts education at Mercer begins with a ceremony of Convocation, a gathering that marks not just the point of departure for four years of courses, projects, papers, and exams, but of a lifelong commitment to learning, wisdom, and engagement. Foundational Studies takes up that moment of beginning, extending it and building it into a coherent framework designed to introduce the breadth and depth of knowledge, values, and skills that continue to shape and influence the human condition. In keeping with the great Renaissance artist Michelangelo’s insight: Ancora imparo -- "still, I am learning," a statement reportedly made in his eighty-seventh year of life, students come to understand that learning is always just beginning. As each new source of knowledge re-contextualizes and reconfigures what has been learned before, additional avenues and opportunities for utilizing what is being learned emerge, connecting students’ acquisition of knowledge with its application for the benefit of the world and those with whom they share it. This emphasis on the application of knowledge for the betterment of humankind encourages students to develop the attributes of an actively engaged, liberally educated citizen.

Foundational Studies is characterized by shared goals and outcomes designed to augment and extend the development of students’ sense of self, an appreciation of neighbor, a concern for community, and the requisite skills for leadership. Upon successful completion of Foundational Studies, students will be able to:

- think critically
- write clearly
- communicate effectively
- integrate practical skills and knowledge
- understand selfhood in relation to others
- appreciate religious heritage
- value western heritage
- consider human behavior within societies
- analyze the natural world
- reason mathematically
Foundational Studies is accomplished through one of two tracks: The Integrative Program or the Great Books Program. In each case, the requirements are fulfilled through (A) interdisciplinary courses, (B) literacy courses, (C) writing competency, (D) an experiential requirement and (E) UNV 101. The combined requirements of either track contribute to the shared outcomes of Foundational Studies.

**Integrative Program (32-41 hours)**

The Integrative Program combines traditional disciplinary course requirements with developmentally appropriate multidisciplinary integrative courses, which serve to prepare students for engaged citizenry and provide a foundation of scholarship to complement the depth and rigor of the major and minor requirements. The program is comprised of three interdisciplinary INT courses, two of which, along with WRT 120, satisfy the writing instruction requirement; seven literacy block requirements, which expose students to areas of knowledge and experiences not explored through the content, pedagogy, and philosophy of INT courses; and an experiential requirement. Additionally, UNV 101 is required of all entering freshman to assist with advising and the transition to collegiate living and learning.

**Great Books Program (32-41 hours)**

Within the Great Books program, students study and discuss the writings of classic writers and thinkers of western civilization, providing them a solid foundation for basing judgments and making decisions. The program is comprised of seven interdisciplinary GBK courses, three of which satisfy the writing instruction requirement; three literacy block requirements (Foreign Language, Natural World and Mathematical Reasoning), which expose students to areas of knowledge and experiences not explored through the content, pedagogy, and philosophy of the Great Books Program; and an experiential requirement. Additionally, UNV 101 is required of all entering freshman to assist with advising and the transition to collegiate living and learning.

**A. Interdisciplinary courses**

Interdisciplinary courses work to integrate the practical skills of writing, critical thinking, communication, and quantitative, qualitative, and critical analysis with relevant content knowledge and perspectives. The Integrative Program requires three INT courses, which engage in critical evaluation of materials and perspectives representing the varied approaches of the different domains (natural sciences, social sciences, the humanities, and the arts). The Great Books program has seven GBK courses organized chronologically, engaging many of the foundational texts of the Western tradition. These courses integrate texts from a number of domains (primarily from the humanities, but including texts from the social sciences, mathematics, natural sciences, and fine arts).

**B. Literacy**

Disciplinary literacy blocks complement the interdisciplinary course work by exposing students to diverse areas of knowledge and experiences. To ensure adequate breadth of exposure for students completing the Integrative Program, at least six differently pre-fixed cours-
es must be used to fulfill the seven distinct literacy block requirements. The seven literacy blocks are: Foreign and Classical Languages, Mathematical Reasoning, The Natural World, Western Heritage, Religious Heritage, Creative Expression, and Human Behavior and Society. Individual block descriptions and requirements are as follow:

**Foreign Language Competency:** Students will learn the basic structures and vocabulary of a language, while understanding fundamental cultural practices common to speakers of that language. Students of modern languages should be able to communicate with native-speakers in everyday situations that occur in civil society (knowing how, when, and why to say what to whom). Students of classical languages should understand the relevance of the language to modern languages and cultures. This block’s requirement can be fulfilled in any of the following ways:

1. Placement by exam into CHN, FRE, GER, LAT, SPN 251 or above.
2. Completion of the elementary 111-112 sequence in CHN, FRE, GER, GRK, LAT, or SPN so as to demonstrate mastery of fundamental features of a foreign language.
3. Students who are proficient in a language not offered at Mercer, and who wish to use it to satisfy this requirement 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.

**Creative Expression:** Through the study or creation of artistic works, students will develop aesthetic sensibilities, personal creativity, and/or the ability to critically analyze and articulate meaning. This block may be filled by courses either in the arts as an object of study or as an engagement with the materials of artistic production. This block’s requirement is fulfilled by successfully completing one course from either (a) or (b).

a. **Study of Creative Arts**

   ART 106, 107; ENG 226, 233, 234, 235, 237; HIS 145; JMS 220, 225, 230; MUS 151; PHI 260, 265, 269; THR 115; WLT 101.

b. **Performance/Production of Creative Arts**

   ART 115, 116, 223, 224, 225, 226, 254; PHO 230; THR 218.

**Religious Heritage:** Students will read and analyze traditional scriptures from the Judeo-Christian tradition. Students will consider the central and integral role of scriptural texts in their historical context, and also in relation to current societal, cultural, and political issues. This block’s requirement is fulfilled by successfully completing one of the following courses:

CHR 101, 150, 170; ENG 225; HIS 160; PHI 240.

**Western Heritage:** Students will examine the nature of western culture through analysis of and reflection on some of the significant actions, ideas, and sources that have been influential in shaping our world today. Students should analyze and evaluate arguments from a variety of texts and, through reflection on those events and texts, promote reasoned judgment and engagement with the problems and issues explored therein. To develop historical consciousness, students will acquire a sense of historical relationships, such as cause and effect and how the past relates to the present. They will be exposed to intercultural and/or global perspectives. This block’s requirement is fulfilled by successfully completing one of the following courses:

CHR 210, 270; CLA 101, 102; ENG 224, 263, 264; FLL 195; GBK 202; HIS 110, 165; PHI 190, 230.
**Human Behavior and Society:** Students are introduced to the concepts and theories used to explain personal, social and/or political behavior. Students compare and analyze scientific theories and methods of acquiring information. Students will be introduced to global or comparative perspectives, whether between major ethnic or social groups, or between cultures. This block's requirement is fulfilled by successfully completing one of the following courses:

AFR 190, 210; ANT 101; COM 230, 250; ECN 150, 151; ENV 250; GEO 111; GHS 200; JMS 101, JMS 240; PHI 237; POL 101; POL/IAF 253; PSY 101; SEP 200; SOC 101, 210; WGS 180

**The Natural World:** Students will examine topics in the natural sciences through both theory and experiment or observation. Students will demonstrate the ability to reach conclusions about natural systems by applying sufficient logical or mathematical analysis to connect theoretical concepts to data. Students will be introduced to either broad disciplinary topics or narrower topics of current interest. This block's requirement is fulfilled by successfully completing one of the following courses:

BIO 102, 110; CHM 110, 111; ENV 105, 150; PHY 102, 105, 108, 109, 115, 141, 161

**Mathematical Reasoning:** Students will be able to use appropriate mathematical concepts to make sense of the world. Students should recognize which mathematical concepts are applicable to a scenario, appropriately apply mathematics and technology in its analysis, and then accurately interpret, validate, and communicate the results. This block's requirement is fulfilled by successfully completing one of the following courses:

CSC 204; MAT 104, 141, 191; PHI 180; STA 126

Block requirements for the two tracks are:

<table>
<thead>
<tr>
<th>Integrative Program</th>
<th>Great Books Program</th>
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</thead>
<tbody>
<tr>
<td>1. Foreign Language Competency (0-8 hours)</td>
<td>1. Foreign Language Competency (0-8 hours)</td>
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<tr>
<td>2. The Natural World (4 hours)</td>
<td>2. The Natural World (4 hours)</td>
</tr>
<tr>
<td>3. Mathematical Reasoning (3-4 hours)</td>
<td>3. Mathematical Reasoning (3-4 hours)</td>
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<tr>
<td>4. Creative Expression (3 hours)</td>
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<tr>
<td>5. Religious Heritage (3 hours)</td>
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<tr>
<td>6. Western Heritage (3 hours)</td>
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<tr>
<td>7. Human Behavior and Society (3 hours)</td>
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</tbody>
</table>

**C. Writing Instruction**

Effective, intentional writing is integral to student success both within and beyond the academic setting. The College of Liberal Arts recognizes that writing is not merely a mode of communication; rather it is also a method of reflection, thinking, and analysis. The ability to write provides a way for students to adopt a discipline’s habits of mind while also reflecting on their own reasoning process. The goal of Writing Instruction is not only to strengthen students’ basic writing skills but also to prepare them to engage in public and professional discourse.
D. Experiential Learning (EXP)

Experiential learning promotes an understanding of academic material through active participation and reflection. These experiences substantially improve the learning of class material, build valuable skills, and have a positive impact on the student and the larger community. Fulfillment of the Experiential Learning Requirement must be approved and documented by a faculty or staff mentor, who will engage students in a reflection exercise that is appropriate to the discipline and nature of the experience. Upon successful completion of the experience (as defined by current guidelines adopted by the College) students will receive the appropriate EXP designation on their transcripts.

Students must fulfill the Experiential Learning Requirement in at least one of the following ways:

a. EXP 401: Supervised Undergraduate Research
b. EXP 402: Creative Activity in the Arts
c. EXP 403: Service Learning
d. EXP 404: Study Away Experience
e. EXP 405: Mercer on Mission
f. EXP 406: Competitive Academic Teams
g. EXP 407: Internship
h. EXP 490: Special Project

E. First-Year Student Requirement

During their first semester at Mercer University, all first-year students in the College of Liberal Arts are required to complete UNV 101: The First-Year Student Experience. (1 hour)

Additional Depth of Understanding (minimum of 15 hours)

These courses promote depth of understanding outside the major, in the spirit of a liberal arts education, and address, “How do we develop, criticize, and revise our understanding of complex issues and problems?” This requirement can be fulfilled by earning a grade point average of 2.0 or higher in one of the following: (1) a second major in another discipline; (2) a minor in another discipline; (3) the courses required for a secondary teacher cer-
tification program as described in the TIFT COLLEGE OF EDUCATION section of this catalog; (4) a B.S. or B.A. interdisciplinary major that includes additional depth.

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 biochemistry and molecular biology, biology, chemistry, computer science, environmental biology, information science and technology, mathematics, physics, or psychology will be awarded this degree.
3. Bachelor of Science in Health Science. A three-year combination program that requires the completion of 90 hours in the College of Liberal Arts to include the general education requirements, the admissions requirements for:
   - any accredited school of medicine or dentistry,
   - any accredited school of veterinary medicine,
   - any accredited pharmacy or physician’s assistant program,
   - any accredited physical therapy or occupational therapy program, or
   - an NAACLS approved school of medical technology, and
   - work toward any major offered in the College.

The Bachelor of Science in Health Science will be awarded upon successful completion of one year of full-time, graduate-level course work in one of the professional programs listed above. Students who have been awarded a Bachelor of Arts or Bachelor of Science degree are not eligible for this degree.

Undergraduate Degree Requirements

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

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 advisor or department chair every semester their progress toward meeting graduation requirements.

Requirements for Majors and Minors

Each candidate for graduation must complete a group of courses known as a major. A major is a focused and disciplined investigation of a certain subject. The upper-division program that constitutes the major must be planned in conference between the student and the advisor or chair of the major department. All students must receive academic advice from their UNV advisor for their first two semesters of study before being transferred to their major advisor.

Students may not declare a major before the mid-term registration period in their second semester of study. To declare a major in the second semester a student must have earned a grade-point-average of at least 2.00 in the first semester of study (consisting of twelve credit hours or more in residence) and must not have been cited for academic deficiency in the eighth week of their second semester.
All students must formally declare an academic major by submitting the appropriate forms to the Office of the Registrar before earning 65 credit hours. Failure to do so will jeopardize the student’s eligibility to enroll in classes.

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. Certain restrictions on minors and double majors are described in the Academic Information section of this catalog (see Undergraduate Degree Requirements). The department course offerings described later in this catalog state the specific requirements for each major and minor offered by the College of Liberal Arts.

The 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 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, minor, and additional depth. 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**

Students in the College of Liberal Arts achieve depth of understanding by completing majors in the following subjects. (All major programs lead to the Bachelor of Arts degree unless otherwise noted. See also the section on the Individualized Major or Minor Program.)

An "*" indicates majors that also include additional depth.

1. Africana Studies
2. Art
3. Biochemistry and Molecular Biology* (B.S.)
4. Biology (B.A. or B.S.)
5. Chemical Commerce* (B.A. or B.S.)
6. Chemistry (B.S.)
7. Christianity
8. Classical Studies*
9. Communication Studies
10. Computer Science (B.A. or B.S.; or B.S. in Computational Science)
11. Creative Writing
12. Economics
13. English
14. Environmental Biology* (B.S.)
15. Environmental Studies*
16. French
17. German
18. Global Health Studies*
19. Graphic Design
20. History
21. Information Sciences and Technology (B.A. or B.S.)
22. International Affairs*
23. Journalism
24. Latin
25. Law, Policy, and Ethics* 
26. Mathematics (B.A. or B.S.)
27. Media Studies
28. Philosophy
29. Philosophy, Politics and Economics* 
30. Physics (B.A. or B.S.)
31. Political Science 
32. Psychology (B.A. or B.S.)
33. Sociology
34. Southern Studies*
35. Spanish
36. Theatre
37. Women’s and Gender Studies

Majors and Minors

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Minors are offered in most of the major subjects listed above. Please consult the program description for details. Minors are also offered in the following subjects:

1. Anthropology  
2. Asian Studies  
3. Criminal Justice  
4. Film Studies  
5. Military Science  
6. Photography  
7. Social Entrepreneurship  
8. Statistics  
9. Web Technology

Students in the College of Liberal Arts may also complete minors offered by the other undergraduate schools on the Macon campus. The Stetson School of Business and Economics offers minors in accounting, business administration, and economics for students not enrolled in that school. The requirements for these minors are described in the Stetson School of Business and Economics section of this catalog. The School of Engineering offers minors in manufacturing and in technical communication for students not enrolled in that school. The requirements for these minors are described in the School of Engineering section of this catalog. The Tift College of Education offers a minor in teacher education for students not enrolled in that college. The requirements are described in the Tift College of Education section of this catalog. The Townsend School of Music offers a minor in music for students not enrolled in that school. The requirements are described in the Townsend School of Music section of this catalog.

**Individualized Major or Minor Program**

**Purpose of an Individualized Major or Minor.** The individualized major or minor program meets the needs of students who evince clarity of purpose and unique interests in their personal educational program which cannot be accommodated within the traditionally prescribed (usually departmental) major or minor formats. By providing increased opportunity to these students to pursue their special interests both on and off the residential campus while meeting the requirements for completing a major or minor, 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 or Minor:** The individualized major or minor is a program in which students may propose a major or minor study curriculum tailored to their individual needs.

**Eligibility:** In order to be eligible for the individualized major or minor, a student must have completed at least 30 semester hours and no more than 80 semester hours of college level work with a grade point average of at least 2.0 and at least 15 semester hours completed at Mercer University.

**Student Responsibility:** For the major, the student must choose a committee composed of three members of the faculty from the departments in which courses are taken, no more than two of whom are in the same department, subject to the approval of the Office of the Dean. For the minor, the student must choose a committee composed of two members of the faculty, subject to the approval of the Office of the Dean. If the minor program involves courses from more than one department, the committee must consist of the chair of the department in which the most courses are taken and one member from another department in which courses are taken. After the committee is selected, but before any committee action takes place, the student must submit to the committee members a written statement describing the proposed major or minor program, clearly stating the educational goals.

**Faculty Responsibility:** Faculty members may accept service on committees for individualized majors or minors at their discretion; however, under no circumstances may they serve on more than eight such committees during a given semester.
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. A copy of the approved document is then sent to the Office of the Registrar along with a completed declaration of major form.

The individualized minor program must be created from the regular course offerings of Mercer University courses and must consist of at least 18 semester hours. At least 12 semester hours must be in upper division courses. Up to 6 semester hours of work may be transferred from another accredited institution, provided they are equivalent to regular Mercer University courses.

Courses counted toward an individualized major or minor may not be counted toward another major or minor, unless the additional depth requirement has already been satisfied.

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 part of the 20 semester hours of off-campus coursework allowed in the individualized major curriculum.

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

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

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 catalog.

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.

**Special Course Sections**

The College of Liberal Arts supports two types of instructional options that offer students opportunities for broader learning experiences: linked-course sections and service-learning sections.

Linked-course sections are pairs of courses for which students co-enroll and in which the instructors work together closely to emphasize interdisciplinary connections. This intentional curricular linkage requires that students co-register for both sections in a linked pair.

Service-learning sections are courses in which students commit to working at off-campus community-service sites in addition to completing the in-class course requirements. Through required co-registration in a service-learning course (SRV 199), students in service-learning sections earn semester hours of credit for their additional coursework commitment.

In a semester, certain sections of any College of Liberal Arts courses might be designated as linked-course sections or as service-learning sections, at the option of the instructor. The specially designated sections will be identified in the course schedules, and students should be aware that these sections will deviate from the course descriptions in this catalog in ways consistent with their special designations.

**Course Frequencies**

The course descriptions in the following sections include the approximate frequencies at which these courses are offered (e.g. every semester, every year, etc.). The frequencies listed in this catalog are approximations and are not guarantees. While the listed frequencies might be useful aids for planning, all students should communicate with academic advisors frequently and should register for courses based on the most current schedule of course offerings posted by the Registrar's Office.

**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 catalog.

**AFRICANA STUDIES (AFR)**

Chester J. Fontenot, Director/Professor of English

Africana 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 Africana Studies consists of 27 semester hours, including AFR 190, 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 Africana Studies consists of 15 hours, including AFR 190, 363, and at least one other AFR course numbered above 300.

Majors may earn Honors in Africana 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 Africana Studies Program.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>AFR 190</td>
<td>Introduction to Africana Studies</td>
<td>3</td>
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<tr>
<td></td>
<td>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 Africana Studies major and minor. (Every year)</td>
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<tr>
<td>AFR 198</td>
<td>Special Introductory Topics in Africana Studies</td>
<td>3</td>
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<tr>
<td></td>
<td>Study of an introductory topic in Africana Studies not covered in any of the departmental offerings. This course may be applied to the Africana Studies major or minor. (Occasionally)</td>
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<tr>
<td>AFR 210</td>
<td>Civil Rights and the Black American</td>
<td>3</td>
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<td></td>
<td>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. Particular attention will be paid to theories of social movements and to the expansion of civil rights language in American culture. Students will engage the works of social and political theorists, economists, historians, and cultural critics. The characteristics of the legislative and judicial processes will also receive attention. (Occasionally)</td>
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<tr>
<td>AFR 230</td>
<td>Religion and the American Black Experience</td>
<td>3</td>
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<td></td>
<td>A consideration of traditional Christian, secularized, and other religious manifestations of black culture in America, with emphasis upon the modern period. (Every year)</td>
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<tr>
<td>AFR 295</td>
<td>Social Inequality: Ethnic Minorities</td>
<td>3</td>
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<td>(Same as SOC 295)</td>
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<td>This course is designed to help students understand the theoretical base for the social inequalities that manifest themselves among the ethnic minority groups in America. In this course, students will become aware of the nature of social differences in American society and investigate a number of current theories that examine the basis for these differences. (Every two years)</td>
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<tr>
<td>AFR 300</td>
<td>Special Topics in Africana Studies</td>
<td>3</td>
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<td></td>
<td>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. (Every year)</td>
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<tr>
<td>AFR 310</td>
<td>Race, Gender and Media</td>
<td>3</td>
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<td></td>
<td>(Same as JMS 310 and WGS 310)</td>
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<td>This course will critically examine the role of the media in enabling, facilitating, or challenging the social constructions of race and gender in our society. We will consider the mass media to be one among many other social institutions such as religion, education, and family, which strongly influence our everyday notions of race and gender. The course will address a variety of entertainment and news content in print and electronic media. (Every other year)</td>
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<tr>
<td>AFR 324</td>
<td>Sub-Saharan Africa to Independence</td>
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<td></td>
<td>(Same as HIS 324)</td>
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<td></td>
<td>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. (Every two years)</td>
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</table>
AFR 330. Race and Politics (3 hours)  
(Same as POL 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. (Every two years)

AFR 345. Environmental Politics and Social Justice (3 hours)  
(Same as 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. (Every two years)

AFR 351. Black Philosophical Perspective (3 hours)  
(Occasionally)  
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.

AFR 354. The Civil War and Reconstruction (3 hours)  
(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. (Every two years)

AFR 359. African American Literature: Beginnings to 1965 (3 hours)  
(Same as ENG 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. (Every year)

AFR 360. African American Literature: 1965 to Present (3 hours)  
(Same as ENG 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. (Every year)

AFR 361. The Old South (3 hours)  
(Same as HIS 361)  
The development of Southern culture, with emphasis on the social, economic, and cultural life. Some attention is given to political problems. (Every two years)

AFR 362. The New South (3 hours)  
(Same as HIS 362)  
The South from Reconstruction to the present, with emphasis on the New South movement, agrarian unrest, and the impact of liberalism in the twentieth century. (Every two years)
AFR 363. African American History (3 hours)
(Same as HIS 363)
An overview of the African American experience with emphasis on the following topics: African heritage; life under slavery; conditions among free blacks during the antebellum period; actions of blacks during the Civil War and Reconstruction and reactions to the rise of virulent white racism after Reconstruction; and the roots, achievements, and transformation of the civil rights movement. (Every two years)

AFR 389. The Black Woman (3 hours)
(Same as WGS 389)
An historical and literary examination of the black woman and her role in American culture. (Every two years)

AFR 490. Supervised Practical Research: A Field Project (3 hours)
This course requires that the advanced student attempt to solve a limited problem in human relations by use of knowledge gained in course-work and by employment of existing community resources and agencies. (Occasionally)

AFR 495. Senior Seminar in Africana Studies (3 hours)
A course designed to fulfill the exit requirement for students majoring in Africana 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 Africana Studies, and to sharpen their skills as researchers and writers. This course is required for the Africana Studies major. (Every year)

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 catalog.

ART (ART), INCLUDING PHOTOGRAPHY (PHO)
Gary Lee Blackburn, Chair/Professor
Beth Ellen Stewart, Professor
Craig Coleman, Associate Professor
Eric O’Dell and Stephen Simmerman, Assistant Professors

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, filmmaking, museum direction, and gallery operation. Students planning to attend graduate school in studio art may need to design an individualized major.

2. 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 drawing, design, painting, printmaking, sculpture, ceramics, and digital imaging as well as art history.

The Department of Art offers majors that lead to the Bachelor of Arts degree. These include a major with an emphasis in studio art (Fine Arts) or art history, and an interdisciplinary Graphic Design major.
The minimum requirements for an art major, studio emphasis, are ART 106, 107, 115, 116, 350, 367, 475, two courses from ART 223, 224, 225, 226, 254, and one course from ART 351, 352, 354, 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, 223, 224, 225, 226, 254, 350. Fifteen hours must come from courses numbered 300 or above. The minimum requirements for a major in Graphic Design are ART 106 or 107, 115, 116, or 116C, 225, 254, 331, 332, 333, 367, 432, 433, 475, PHO 230, 425, ECN 150, MKT 361, MKT 363, and JMS 370 or an additional course in ACC, MKT, or MGT.

A major project, consisting of a graduation exhibition for the studio and Graphic Design emphases 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.

A minor in graphic design consists of eighteen hours, to include ART 115, 116, or 116C, 331, 332, 333, and 432 or 433.

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.

ART 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' (c. 1500). An investigation of how changes in subject matter and styles reflect the power structures, ideals, philosophy, religion, scientific ideas and literature of cultures around the world. This course can be part of the Classical Studies major. (Every year)

ART 107. History of Art II  (3 hours)
A survey of the major works of visual art and architecture from around 1400 to the end of the nineteenth century in many cultures around the globe. Attention is given to the various roles of the artist and to how styles in art relate to social, political, philosophical, religious, literary, and scientific ideas. (Every year)

ART 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. (Every two years)

ART 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. (Every semester)
ART 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. (Every semester)

ART 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. (Every year)

ART 198. Special Introductory Topics in Art or Graphics (3 hours)
Subtitle
Study of an introductory topic in Art not covered in any of the departmental offerings. This course may not be applied to the Art major or minor. (Occasionally)

ART 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. (Occasionally)

ART 223. Ceramics (3 hours)
Construction and decoration of pottery and sculpture with an introduction to three dimensional design. Coil and slab construction, glazing and kiln firing will be taught. (Every year)

ART 224. Sculpture (3 hours)
Basic three-dimensional design, wood and metal fabrication and small object casting. Preliminary models are developed into final sculptures. (Every year)

ART 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. (Every year)

ART 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. (Every year)

ART 254. Beginning Digital Imaging (3 hours)
An introductory-level course focusing on the use of computers as aids in designing artwork and as mediums for creative work. This course includes an introduction to the concepts of using new media and how it relates to contemporary art theory and practice. Work created will be produced for print media, interactivity, and motion. This will culminate in the creation of a digital portfolio. (Every year)

ART 331. Illustration (3 hours)
Prerequisite: ART 115.
An introduction to the art of illustration, this course will develop skills and explore the tools, techniques, and goals of illustration in the fields of advertising and graphic design while developing critical thinking and problem-solving in visual design. (Every year)

ART 332. Typography (3 hours)
Prerequisite: ART 116 or ART 116C.
This introductory course in typography explores the creation and use of letterforms as an art form and as a fundamental process of design. Students will investigate the basic aspects of letterforms through a variety of projects and will be exposed to the historical background, technical and aesthetic issues, and communicative abilities of typography as individual forms and as text. (Every year)
ART 333. Layout Design (3 hours)
Prerequisites: ART 115 and ART 116.
A first course in computer aided page design, the combining of image and text, for the presentation of information or persuasive material to communicate with an audience with visual impact. (Every year)

ART 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. (Every year)

ART 351. Advanced Sculpture (3 hours)
Prerequisite: ART 223 or ART 224 or permission of instructor.
Instruction in sculptural fabrication using clay, wood and metal. Bronze casting will also be taught. (Every two years)

ART 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. (Every two years)

ART 354. Digital Imaging (3 hours)
Prerequisite: ART 254.
An advanced level course teaching the use of the computer as an aid in designing art work and as a medium for creative work. (Every year)

ART 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. (Every year)

ART 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. This course can be part of the Classical Studies major. (Every three years)

ART 363. Art of the Middle Ages (3 hours)
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. (Every three years)

ART 365. The Italian Renaissance (3 hours)
An in-depth look at the art, artists, and patrons who created the perspectival figurative tradition that still shapes our visual world. New materials and techniques, training, patronage, and theoretical ideas about art and artists are some of the topics covered. (Every three years)

ART 366. Baroque Age (3 hours)
The art and architecture of the 17th and 18th Centuries provide the material to explore the aesthetic and thematic idea of the Western world. (Every three years)

ART 367. Modern Art History (3 hours)
A study of the aesthetic, philosophical, technological and sometimes political ideas behind many of the movements of 19th- and 20th-Century art such as Romanticism, Realism,
Impressionism, Expressionism, Cubism, and Surrealism, and how they led to the art of today. (Every three years)

**ART 368. Far Eastern Art** (3 hours)
The arts of the Far East, primarily those of India, China, and Japan are studied in relation to their religious and political history. (Every three years)

**ART 370. Women in Art** (3 hours)
(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. (Every three years)

**ART 380. Special Arts Subjects (Subtitle)** (3 hours)
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. (Occasionally)

**ART 398. Internship in Art or Graphics** (1-3 hours)
Prerequisites: junior or senior status.
An intensive practicum experience at an approved business, organization, or academic institution. Senior-level students, under the direction of a faculty member and an on-site supervisor, are required to engage in projects or assignments requiring at least three on-site hours per week for every hour of credit. Students will learn through observation, regular discussions with the on-site supervisor and Mercer faculty member, and written reflection. In addition, students may be required to attend training events, workshops or weekly seminars. This course may be repeated for a total of 9 hours and does not count towards a major or minor in Art. Graded S/U. (Every year)

**ART 432. Advanced Typography** (3 hours)
Prerequisite: ART 332.
In this advanced course in typography students will engage in the sophisticated use of type as visual communication. The art/design student explores the use of type and text in various media, messages and forms, emphasizing the powerful properties of type in the making of visual communication. The goal is to facilitate greater understanding and expression of typography through a highly energized, collaborative and creative environment. Additionally, a goal of this course is to realize greater typographical expressions through strengthened student portfolios. (Every other year)

**ART 433. Advanced Layout Design** (3 hours)
Prerequisite: ART 333
ART 433 is a continuation of ART 333 Layout Design emphasizing creative solutions to design problems using text and image. Also covered are contemporary design issues and some graphic design history. (Every other year)

**ART 470. Gallery Internship** (1 hour)
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. (Occasionally)
ART 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. (Every year)

ART 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. (Occasionally)

PHOTOGRAPHY (PHO)
A minor in photography consists of five courses: PHO 230, 330, 425, and two courses from ART 116, 254, 367, or JMS 101. Photography courses will not count toward a major in art.

PHO 198. Special Introductory Topics in Photography (Subtitle) (3 hours)
Study of an introductory topic in Photography not covered in any of the departmental offerings. This course may be applied to the Photography minor. (Occasionally)

PHO 230. The Art of Photography: Pinhole (3 hours)
An introduction to the history, theory and practice of photography. The special qualities of photography as an art and as an expressive tool are illustrated through a unique blend of pinhole cameras and digital printing. Students will learn the functions and physics of optics by building and using pinhole cameras. Printing of pinhole negatives will be done using digital software and printers. (Every semester)

PHO 330. Black and White Film Photography (3 hours)
Prerequisite: PHO 230.
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. (Students must supply their own manual exposure camera.) (Every two years)

PHO 398. Internship in Photography (1-3 hours)
Prerequisites: junior or senior status.
An intensive practicum experience at an approved business, organization, or academic institution. Senior-level students, under the direction of a faculty member and an on-site supervisor, are required to engage in projects or assignments requiring at least three on-site hours per week for every hour of credit. Students will learn through observation, regular discussions with the on-site supervisor and Mercer faculty member, and written reflection. In addition, students may be required to attend training events, workshops or weekly seminars. This course may be repeated for a total of 9 hours and does not count towards a minor in Photography. Graded S/U. (Every year)

PHO 425. Digital Photography (3 hours)
Prerequisite: PHO 230 or permission of the instructor.
This course covers the creation of photographic images using digital media. The differences between film and digital photography will be explored. Topics covered will include the use of digital cameras and the transfer, storage, adjustment and printing of digital files.
(Students must provide their own digital camera of at least four megapixels.) (Every two years)

**PHO 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. (Occasionally)

**ASIAN STUDIES**
For a description of requirements for the Asian Studies minor, see the heading INTERNATIONAL AND GLOBAL STUDIES in this catalog.

**BIOCHEMISTRY AND MOLECULAR BIOLOGY**
Alan F. Smith, *Director/Professor of Biology*

The Departments of Biology and Chemistry collaboratively offer the interdisciplinary major in Biochemistry and Molecular Biology as an academic focus opportunity for students at the interface where biology and chemistry overlap. Successful completion of the BMB major satisfies the CLA Additional Depth of Understanding Requirement and leads to a B.S. degree. In this major, Biologists and chemists come together to explore life at the cellular and molecular level by applying the molecular concepts of chemistry to the complex processes that exist within living biological systems. This program is designed to prepare students for advanced study in the biological sciences; for professional study in a health field; or for a career in science or science education. For details on the courses listed below, please see the BIOLOGY and CHEMISTRY headings in this catalog.

The Bachelor of Science degree in Biochemistry and Molecular Biology consists of the following required courses: CHM 111 and 112 (or CHM 115), CHM 221, 222, 241, and 332; BIO 211, 212, 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: BIO 303, 325, 330, 450, 482, an approved BIO 490, at least three hours in BIO 499, or CHM 401 and 402. Courses required in departments other than Biology or Chemistry are MAT 191, MAT 192, and PHY 141 or 161. 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) complete the degree in Biochemistry and Molecular Biology with grade point averages of 3.50 or above in biology and chemistry courses and of 3.25 or above overall; (3) complete at least 4 semester hours of research (CHM 401 and 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.
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 that lead to the Bachelor of Science degree. One contributes to the major in Biochemistry and Molecular Biology (for details see the BIOCHEMISTRY AND MOLECULAR BIOLOGY heading preceding this section) and the other contributes to the major in Environmental Biology (for details see the ENVIRONMENTAL BIOLOGY heading immediately following the Biology section).

A. The Biology major that leads to the Bachelor of Science degree requires these biology courses, totaling at least 36 semester hours: BIO 211 and 212 and at least 26 hours in biology courses numbered above 212. 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 STA 126 or MAT 191; CHM 111, 112, 221, and 222; and PHY 141 or 161. 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 Biology major that leads to the Bachelor of Arts degree requires these biology courses totaling at least 36 semester hours: BIO 211 and 212 and at least 26 hours in biology courses numbered above 212. 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 profes-
sional 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 num-
bered 300 or above. Courses required in departments other than biology include

STA 126 or MAT 191; 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.

Minors in biology must take at least 17 semester hours, to include BIO 211 and 212. 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 semes-

ter in which she or he accumulates 75 hours of credit, including 21 hours in biology; (2) grad-

uate 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) pres-

ent a seminar to students and faculty in the Department, describing the honors project; and

(6) receive departmental approval upon completion of the project.

Secondary Teacher Certification Program in Biology

Teacher certification in biology (6-12) is available to biology majors who complete GHS

200 and PHY 141, 142. Students planning to teach biology in secondary schools should

notify their advisor and contact the secondary education advisor in Tift College of Education.

Required courses in education include EDUC 210, 220, 256, 283, 357, 398, 399, 406, 423,

469, 476, 485, and 492. Please consult the TIFT COLLEGE OF EDUCATION section of this

catalog for more details. This certification is approved by the Georgia Professional

Standards Commission.

Please note: Students who intend to pursue the Masters of Science in Environmental

Systems in the School of Engineering in their fifth year of study at Mercer University are

strongly encouraged to complete the following courses before beginning the program: MAT

191, EVE 290, EVE 290L, EVE 385, EVE 402, and EVE 405. Students who plan to pursue

a Master's of Business Administration in the Eugene W. Stetson School of Business and

Economics in their fifth year of study at Mercer University are strongly encouraged to com-

plete the following courses before beginning the program: ACC 204, FIN 362, ECN 150 or

151 or 160, STA 126 (or an equivalent) and 15 hours in other business classes. These hours

may include, but are not limited to, MGT 363, MKT 361, BUS 346, BUS 349 and ACC 205.

Also, if a student graduates in the top ten percent of their class, the GMAT is waived.

BIO 102. Elements of Microbiology (4 hours)

Course content focuses on the principles of microbiology and associated human diseases. Topics covered include prokaryotic cell structure and function, biochemical and metabolic requirements, fundamental mechanisms of pathogenesis, environmental and chemothera-

peutic control measures and basic concepts of immunology. Students will gain exposure to some of the techniques used in a clinical laboratory setting: aseptic technique, methods of culture, staining and microscopy, antibiotic resistance testing, and biochemical assays. This course may not be used for a biology major or minor. It is not recommended for pre-

medical students. A lecture and laboratory course. Laboratory fee. (every semester)

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BIO 110. General Concepts of Biology (4 hours)
An introduction to general concepts in biology. Subjects include the structure and function of the cell, reproduction and genetics, biological diversity, and ecology. A lecture and laboratory course. This course is intended for non-majors and as such will not satisfy course requirements for Biology majors nor will it serve as a prerequisite for upper division Biology courses. (Every year)

BIO 198. Special Introductory Topics in Biology (Subtitle) (1-4 hours)
Study of an introductory topic in Biology not covered in any of the departmental offerings. Students are required to engage in projects or assignments requiring at least one contact hour per week for every hour of credit. This course may not be applied to the Biology major or minor. (Occasionally)

BIO 202. Human Anatomy and Physiology I (4 hours)
This course represents an introduction to the structure and function of the human body from the cellular to the organismal levels. Subjects include tissue and integumentary, skeletal muscular and nervous body systems. This course may not be used for a biology major or minor. It is not recommended for pre-medical students. A lecture and laboratory course. (Every year)

BIO 203. Human Anatomy and Physiology II (4 hours)
Prerequisite: BIO 202.
This course continues the introduction to the structure and function of the human body from the cellular to the organismal levels. Subjects include the endocrine, cardiovascular, lymphatic, immune, respiratory, digestive, urinary and reproductive systems. This course may not be used toward a biology major or minor. It is not recommended for pre-medical students. A lecture and laboratory course. (Every year)

BIO 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. (Occasionally)

BIO 211. 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, systematics, biodiversity, animal form and function, homeostasis, and ecology. A lecture, recitation, and laboratory course. (Every year)

BIO 212. Introduction to Biology II (5 hours)
Prerequisite: a grade of C or better in BIO 211; or CHM 222.
Continues the introduction to the unifying principles of the biological sciences. Subjects include basic biochemistry, energy transfer, cell biology, physiology, genetics and the vertebrate immune system. A lecture, recitation, and laboratory course. (Every year)

BIO 250. Current Issues in Biology (1 hour)
Pre- or corequisite: BIO 211.
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. (Occasionally)
BIO 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. Non-optional satisfactory/unsatisfactory grading. (Every semester)

BIO 300. Invertebrate Zoology (4 hours)
Prerequisite: BIO 212.
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. (Every two years)

BIO 301. Vertebrate Zoology (4 hours)
Prerequisite: BIO 212.
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. (Every year)

BIO 302. Plant Biology (4 hours)
Prerequisite: BIO 212.
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. (Every two years)

BIO 303. Microbiology (4 hours)
Prerequisite: BIO 212. 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. (Every two years)

BIO 310. Genetics (4 hours)
Prerequisite: BIO 212.
A study of the mechanics of heredity considering molecular, cellular, organismal, and population phenomena. Formal laboratory writing is required. A lecture and laboratory course. (Every semester)

BIO 315. Field Studies in Biology (3 hours)
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. (Every year)

BIO 322. Identification of Vascular Plants (4 hours)
Prerequisite: BIO 212 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. (Occasionally)
BIO 325. Comparative Animal Physiology (4 hours)
Prerequisite: BIO 212 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. (Every semester)

BIO 330. Vertebrate Histology (4 hours)
Prerequisite: BIO 212.
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. (Every two years)

BIO 361. The Biology of Sex and Gender (3 hours)
(Same as WGS 361)
Prerequisites: BIO 212.
The student will gain a knowledge base of the biology of sex, as well as, exposure to material that inspires one to study science with a critical eye, in particular, from a feminist framework. Topics covered may include the evolution of meiotic sex, human reproductive biology, environmental influences on reproductive biological development, socio-biological theories and sexual behavior in animals, and feminist analyses of the biological sciences. Pedagogy may include collaborative group work. (Every two years)

BIO 370. Principles of Ecology (4 hours)
Prerequisites: BIO 212 or BIO 211 and ENB 150.
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. (Every year)

BIO 375. Organic Evolution (3 hours)
Prerequisite: BIO 212.
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. (Occasionally)

BIO 381. Urban Ecosystems (3 hours)
Prerequisites: BIO 220/211 or ENB 150.
A study of the relationship between the urban environment and the associated biological, physical, social and political systems. Emphasis will be placed on ecological principles and processes as they relate to the urban ecosystem including the impacts of urbanization on biodiversity, air and water quality, production and management of waste, energy use and land use patterns. The historical development of cities and current urbanization trends will be considered with a focus on urban sprawl. Lecture/discussion course. (Every two years)

BIO 382. Biological Anthropology (3 credits)
(Same as ANT 382)
Prerequisites: BIO 212 or consent of the instructor.
This lecture-based course represents an advanced introduction to the sub-discipline of Biological Anthropology. The discussion will focus on the biological aspects of humans and our closest living relatives, the primates. Specifically the course will include content on biological evolution, a review of living primates and a study of the extensive fossil evidence for human evolution. The course will conclude with a review of modern human variation and the fallibility of the human race concept. (Every two years)
BIO 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. (Occasionally)

BIO 398. Internship in Biology (1-3 hours)
Prerequisites: junior or senior status.
An intensive practicum experience at an approved business, organization, or academic institution. Senior-level students, under the direction of a faculty member and an on-site supervisor, are required to engage in projects or assignments requiring at least three on-site hours per week for every hour of credit. Students will learn through observation, regular discussions with the on-site supervisor and Mercer faculty member, and written reflection. In addition, students may be required to attend training events, workshops or weekly seminars. This course may be repeated for a total of 9 hours and does not count towards a major or minor in Biology. Graded S/U. (Every year)

BIO 410. Molecular Genetics (4 hours)
Prerequisites: 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. (Every two years)

BIO 421. Biostatistics and Morphology (3 credits)
Prerequisites: BIO 212 and BIO 300, 301, or 302 or consent of instructor.
This course represents an advanced introduction to the quantitative analysis of biological data. As such, focus will be on using statistical methods to better understand morphological aspects of organismal body plans and how these relate to biological adaptation and evolution. The course will begin with an overview of central tendency and dispersion statistical theory as well as problem solving via hypothesis testing. Following this background, both univariate and multivariate quantitative techniques will be introduced and used to evaluate animal size and shape, in addition to growth and allometry. (Every two years)

BIO 440. Aquatic Biology (4 hours)
Prerequisite: BIO 212 or BIO 211 and ENB 150.
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. (Every two years)

BIO 450. Development (4 hours)
Prerequisite: BIO 212.
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. (Occasionally)
BIO 460. Eukaryotic Cell Biology (3 hours)
Prerequisite: BIO 212. 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. (Every two years)

BIO 460L. Eukaryotic Cell Biology Laboratory (1 hour)
Corequisite: BIO 460.
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. (Every two years)

BIO 465. Biochemistry I (3 hours)
(Same as CHM 465)
Prerequisites: BIO 212 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. (Every semester)

BIO 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. (Every year)

BIO 466. Biochemistry II (3 hours)
(Same 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. (Every year)

BIO 466L. Biochemistry II Laboratory (1 hour)
(Same 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. (Every year)

BIO 480. Conservation Biology (4 hours)
Prerequisites: BIO 212 or BIO 211 and ENB 150.
This course is a study of the concepts of conservation biology and the application of ecological principles and techniques to the protection and study of biodiversity. Subjects include threats to biological diversity, conservation at the population and species level, and practical applications of conservation biology. A lecture and laboratory course. (Every two years)
BIO 482. Immunology (3 hours)
Prerequisites: BIO 212, CHM 112.
A detailed study of immunobiology that includes the basic components of the immune system, the development of the components including the underlying genetic mechanisms, the recognition of both foreign and self-antigens, and the outcomes from immune responses. Small group case-based learning will focus on the immune system in health and disease. Group research and formal presentations are required. This is a three-credit course without a laboratory component. (Every year)

BIO 490. Advanced Topics in Biology (Subtitle) (1-4 hours)
Prerequisites: BIO 212 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. (Occasionally)

BIO 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. (Every semester)

Environmental Biology (ENB)
The Biology Department offers a major in Environmental Biology. The successful completion of the ENB major fulfills the CLA Additional Depth of Understanding Requirement and leads to a Bachelor of Science degree. This program is interdisciplinary, using principles of biology, chemistry, earth physics, and mathematics to address scientific issues related to the intersection of terrestrial, aquatic, and atmospheric components of the biosphere. 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.

An Environmental 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 he or she accumulates 75 hours of credit, (2) graduate with a B.S. degree in Environmental Biology with a grade point average of at least a 3.50 in Environmental biology and a 3.25 overall; (3) in consultation with the honors advisor design and carry out a field or laboratory research project; (4) present a seminar to the student and faculty of the Biology Department or prepare a paper describing the honor project; and (5) receive departmental approval upon completion of the project.

The Bachelor of Science degree in Environmental Biology major does not require a minor but does require the following:

1. Biology Courses (22 hours)
   BIO 211, BIO 212; BIO 300, or 301, 302, or 303; BIO 370; BIO 440 or 480

2. Chemistry (15 hours)
   CHM 111, CHM 112, CHM 241, CHM 351
3. Environmental Science (15 hours)

ENB 150; ENB 310, ENB 330; ENB 495 or 1 hour of BIO 299/CHM 401 and 2 hours of BIO 499/CHM 402

4. Science Elective (7-8 hours)

BIO 315, BIO 381, BIO 382, BIO 421; CHM 221, CHM 222; approved BIO 390, BIO 490, CHM 281/281L, CHM 481/481L; CHM 341, ENB 105, ENB 110, ENB 220, ENB 490; EVE 385, EVE 402, EVE 430, EVE 486

5. Math and Science Core (7 hours)

STA 126; PHY 141

Please note: this course may also be applied to the Mathematical Reasoning and The Natural World disciplinary literacy blocks of the CLA General Education requirements. A second math course, MAT 191, is strongly encouraged for any student that intends to attend a graduate program in environmental science.

6. Economics (3 hours)

ECN 150 or 151

Please note: this course may be applied to the Human Behavior and Society disciplinary literacy blocks of the CLA General Education requirements.

7. Environmental Issues (3 hours)

ECN 452; ENV 250, GEO 111, POL 253, POL 310, POL 313, POL 335, POL 345; SOC 321; SOC 325, SOC 360

Minors in Environmental Biology must take at least 18 semester hours, to include ENB 150 and ENB 105, and three courses from the following: ENB 330, BIO 381, BIO 315, BIO 370, BIO 440, BIO 480, or an approved class at the 300 level or higher from a Mercer on Mission experience.

Please note: Students who intend to pursue the Masters of Science in Environmental Systems in the School of Engineering in their fifth year of study at Mercer University are strongly encouraged to complete the following courses before beginning the program: MAT 191, EVE 290, EVE 290L, EVE 385, EVE 402, and EVE 405. Students who plan to pursue a Master’s of Business Administration in the Eugene W. Stetson School of Business and Economics in their fifth year of study at Mercer University are strongly encouraged to complete the following courses before beginning the program: ACC 204, FIN 362 and 15 hours in other business classes. These hours may include, but are not limited to, MGT 363, MKT 361, BUS 346, BUS 349 and ACC 205. Also, if a student graduates in the top ten percent of their class, the GMAT is waived.

Secondary Teacher Certification Program in Earth and Space Science

Teacher certification in earth and space science (6-12) is available to earth and environmental sciences (B.S. program) majors who select ENB 220 or ENB 310 as one of their earth and environmental sciences courses and who also complete ENB 110 (Meteorology) and PHY 115 (Descriptive Astronomy). Students planning to teach earth and space science in secondary schools should notify their advisor and contact the secondary education advisor in Tift College of Education. Required courses in education include EDUC 210, 220, 256, 283, 357, 398, 399, 406, 423, 469, 476, 485, and 492. Please consult the TIFT COLLEGE OF EDUCATION section of this catalog for more details. This certification option is approved by the Georgia Professional Standards Commission.
ENB 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. (Every other year)

ENB 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. (Occasionally)

ENB 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. (Every semester)

ENB 198. Special Introductory Topics in Environmental Biology (Subtitle) (1-4 hours)
Study of an introductory topic in Environmental Biology not covered in any of the departmental offerings. Students are required to engage in projects or assignments requiring at least one contact hour per week for every hour of credit. This course may not be applied to the Environmental Biology major or minor. (Occasionally)

ENB 220. Oceanography (4 hours)
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. (Occasionally)

ENB 310. Hydrogeology (4 hours)
Prerequisites: CHM 111/112 or 115, ENB 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. (Every two years)

ENB 330. Introduction to Geographic Information Systems (4 hours)
(Same as ENV 330)
Prerequisite: ENB 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. (Every other year)
ENB 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. (Every semester)

ENB 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 curriculum. Majors will present papers on research and write a review of a significant topic in environmental science. A lecture/discussion course. (Occasionally)

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 catalog.

CHEMISTRY (CHM)

Kevin M. Bucholtz, Chair/Associate Professor
Dale E. Moore, Andrew J. Pounds, and Caryn S. Seney, Professors
Jeffrey D. Hugdahl and Bridget G. Trogden, Associate Professors
Garland L. Crawford, David R. Goode, Adam M. Kiefer, Kathryn D. Kloepper, and Jennifer L. Look, Assistant Professors
Animesh Aditya, Visiting Assistant Professor

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 a Chemistry major that leads to the Bachelor of Science degree, a Chemical Commerce major that leads to the Bachelor of Science degree (see details for the Chemical Commerce heading immediately following the Chemistry section), and contributes to the major in Biochemistry and Molecular Biology that leads to a Bachelor of Science degree (see details for the Biochemistry and Molecular Biology heading immediately preceding the Chemistry section).

The major in chemistry that leads to the Bachelor of Science degree consists of these courses totaling at least 38 semester credit hours: CHM 111/112 or 115; CHM 221, 222, 241, 311, 331, 332, 341, 371, 372, and 395; at least three credit hours chosen from CHM 411, 421, 431, 465, or 481/481L; and two credit hours of lab chosen from CHM 401, 402, 465L, and 466L. Required courses from other departments include: MAT 191 and 192; PHY 161 and 162. Successful completion of a senior comprehensive examination is required.

A student may elect a program that will result in American Chemical Society certification in chemistry or certification in chemistry with an emphasis in biochemistry. To meet the requirements for certification in chemistry, coursework must include: BIO/CHM 465; at least three credit hours chosen from CHM 411, 421, 431, 465/481L; and CHM 401 and 402. For certification in chemistry with an emphasis in biochemistry, coursework must include: BIO/CHM 465 and 466; four credit hours of advanced lab chosen from CHM 401, 402, BIO/CHM 465L, and BIO/CHM 466L; and one additional course in Biology chosen from BIO 303, 310, and 460.

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 cred-
Departmental Honors in chemistry may be attained by fulfilling the following require-
ments: (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. (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*.

**Secondary Teacher Certification Program in Chemistry**

Teacher certification in chemistry (6-12) is available to chemistry majors who complete
BIO 211 and 212 and BIO/CHM 465. Students planning to teach chemistry in secondary
schools should notify their advisor and contact the secondary education advisor in Tift
College of Education. Required courses in education include EDUC 210, 220, 256, 283,
357, 398, 399, 406, 423, 469, 476, 485, and 492. Please consult the TIFT COLLEGE OF
EDUCATION section of this catalog for more details. This certification option is approved by
the Georgia Professional Standards Commission.

**CHM 110. The Chemical World**

An introduction to chemical theories and principles as related to the world around us. This
course will introduce students to fundamental chemical concepts such as atomic theory,
conservation of mass, bonding theory, chemical equilibria and the ideal gas law in relation
to real-world scenarios. This lecture and laboratory course is intended for non-majors and
so will neither satisfy course requirements for the chemistry major, nor will it serve as a
prerequisite for any upper division chemistry course. (Every year)

**CHM 111. General Chemistry I**

Prerequisite: MAT 133 credit or placement in MAT 191.

CHM 111 is the first course in a two-part sequence that introduces students to the funda-
mental principles of chemistry. Students will become conversant with the scientific vernac-
ular through the study of theories, laws and hypotheses of mass, energy and charge bal-
ance and how they apply to energy and equilibria. The course introduces the foundational
methods of science and principles of chemistry, such as states of matter, atomic structure,
chemical bonding, oxidation and reduction, solutions, acids and bases, kinetic molecular
theory and gas laws. The course includes three one-hour lectures and one three-hour lab-
oratory each week. (Every year)

**CHM 112. General Chemistry II**

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 funda-
mental principles of chemistry. This course is a continuation of principles developed in
General Chemistry I. The course includes three one-hour lectures and one three-hour lab-
oratory each week. (Every year)

**CHM 115. Advanced General Chemistry**

Co- 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 ener-
gy conservation and their application to chemical systems and reactions. Students will also
be introduced to the fundamentals of chemical thermodynamics and its bearing on equilib-rium 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. (Occasionally)

CHM 181/181L. Introductory Topic in Chemistry (Subtitle) (1-4 hours)
Prerequisite: No CHM prerequisite; other prerequisites to be specified with each individual course offering.
Study of an introductory topic in chemistry not covered in any of the normal departmental offerings. The number of lecture and/or laboratory meetings will vary according to the topic. This course may be applied to the chemistry major or minor and may be repeated for credit if offered with a different topic. (Occasionally)

CHM 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. (Every year)

CHM 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. (Every year)

CHM 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. (Every year)

CHM 281/281L. Special Topic in Chemistry (Subtitle) (1-4 hours)
Prerequisites: CHM 112 recommended; other prerequisites to be specified with each individual course offering.
Study of a special topic in chemistry requiring appropriate background in general chemistry and not covered in any of the normal departmental offerings. The number of lecture and/or laboratory meetings will vary according to the topic. This course cannot be applied toward the chemistry major requirements and does not count toward any of the College of Liberal Arts general education requirements, but it can be applied toward the chemistry minor. May be repeated for credit if offered with a different topic. (Occasionally)

CHM 295. Chemical Research (1-2 hours)
Prerequisites: 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. (Every semester)

**CHM 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. (Every semester)

**CHM 331. Quantum and Statistical Mechanics** (3 hours)
Prerequisites: CHM 112 or 115, MAT 192, PHY 162.
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. (Every year)

**CHM 332. Reaction Dynamics** (3 hours)
Prerequisites: 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. (Every year)

**CHM 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. (Every year)

**CHM 351. Environmental Chemistry** (4 hours)
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. (Occasionally)

**CHM 371. Problems in Chemistry I** (2 hours)
Prerequisites: CHM 222 and 241, MAT 192, PHY 162.
Corequisites: CHM 331 and 341.
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. (Every year)
CHM 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. (Every year)

CHM 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. (Every year)

CHM 398. Internship in Chemistry  (1-3 hours)
Prerequisites: junior or senior status.
An intensive practicum experience at an approved business, organization, or academic institution. Senior-level students, under the direction of a faculty member and an on-site supervisor, are required to engage in projects or assignments requiring at least three on-site hours per week for every hour of credit. Students will learn through observation, regular discussions with the on-site supervisor and Mercer faculty member, and written reflection. In addition, students may be required to attend training events, workshops or weekly seminars. This course may be repeated for a total of 9 hours and does not count towards a major or minor in Chemistry. (Every year)

CHM 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. (Every year)

CHM 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. (Every year)

CHM 411. Advanced Inorganic Chemistry  (3 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 three one-hour lectures each week. (Every three years)

CHM 421. Advanced Organic Chemistry  (3 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 three one-hour lectures each week. (Every three years)
CHM 431. Advanced Quantum Chemistry  
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 three one-hour lectures each week. (Every three years)

CHM 465. Biochemistry I  
(Same as BIO 465)  
Prerequisites: CHM 222 and BIO 212.
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. (Every semester)

CHM 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, centrifugation, and protein analysis and centrifugation. Experimental design and formal laboratory writing are required. The course includes one four-hour laboratory each week. (Every year)

CHM 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. (Every year)

CHM 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. (Every year)

CHM 481/481L. Advanced Topic in Chemistry (Subtitle)  
Prerequisites: CHM 331 and 332, senior status and/or departmental approval.
Study of an advanced topic in chemistry in greater depth than in any of the normal department offerings. The number of lecture and/or laboratory meetings will vary according to the topic. This course can be applied toward the requirements for the major or minor in chemistry and toward the American Chemical Society certified degree program. May be repeated for credit if offered with a different topic. (Occasionally)
CHEMICAL COMMERCE

Kevin M. Bucholtz, Director/Associate Professor

The Department of Chemistry and the Stetson School of Business and Economics offer majors leading to a Bachelor of Arts or Bachelor of Science degree in Chemical Commerce as a course of study for students interested in the interface where chemistry and business overlap. The majors in Chemical Commerce are designed to expand and enrich undergraduate educational learning outcomes by incorporating a rigorous scientific experience with the business acumen to succeed within the global market. Besides an array of chemistry courses to develop students’ understanding in the chemical foundations, the business component has paths of study focused in accounting, economics or business management to develop the administrative, analytical, decision-making, and communication skills to be successful in the business world. This program is designed to prepare students for a career in science, technology or medical business sector; for professional study in a health field; or professional study in a business-related field.

The interdisciplinary B.A. degree in Chemical Commerce with an emphasis in Accounting includes additional depth. The requirements for this major with emphasis are: ACC 204, 205, 331, 332, and one ACC elective course at the 300 level or above, BUS 305, CHM 111, 112, 221, 222, 241, and 395, ECN 150 and 151, FIN 362, STA 126, and three credit hours from the following: CHM 401, 402, 465, 466, or 481. BIO 211 and 212 are prerequisites for CHM 465.

The interdisciplinary B.S. degree in Chemical Commerce with an emphasis in Accounting includes additional depth. The requirements for this major with emphasis are: ACC 204, 205, 331, 332, and one ACC elective course at the 300 level or above, CHM 111, 112, 221, 222, 241, 311 or 341, and 395, ECN 150 and 151, FIN 362, STA 126, and seven credit hours from the following: CHM 401, 402, 465, 465L, 466, 466L, or CHM 481. BIO 211 and 212 are prerequisites for CHM 465.

The interdisciplinary B.A. degree in Chemical Commerce with an emphasis in Business Management includes additional depth. The requirements for this major with emphasis are: ACC 204, BUS 305 and 346, CHM 111, 112, 221, 222, 241, and 395, ECN 150 and 151, FIN 362, STA 126, MGT 363 and one MGT elective course at the 300 level or above, MKT 361, and three credit hours from the following: CHM 401, 402, 465, 466, or 481. BIO 211 and 212 are prerequisites for CHM 465.

The interdisciplinary B.S. degree in Chemical Commerce with an emphasis in Business Management includes additional depth. The requirements for this major with emphasis are: ACC 204, BUS 346, CHM 111, 112, 221, 222, 241, 311 or 341, and 395, ECN 150 and 151, FIN 362, STA 126, MGT 363 and one MGT elective course at the 300 level or above, MKT 361, and seven credit hours from the following CHM 401, 402, 465, 465L, 466, 466L, or 481. BIO 211 and 212 are prerequisites for CHM 465.

The interdisciplinary B.A. degree in Chemical Commerce with an emphasis in Economics includes additional depth. The requirements for this major with emphasis are: ACC 204, BUS 305, CHM 111, 112, 221, 222, 241, and 395, ECN 150, 151, and two ECN elective course at the 300 level or above, FIN 362, STA 126, and three hours credit from the following: CHM 401, 402, 465, 466, or 481. BIO 211 and 212 are prerequisites for CHM 465.

The interdisciplinary B.S. degree in Chemical Commerce with an emphasis in Economics includes additional depth. The requirements for this major with emphasis are: ACC 204, CHM 111, 112, 221, 222, 241, 311 or 341, and 395, ECN 150, 151 and two ECN
elective course at the 300 level or above, FIN 362, STA 126, and seven credit hours from the following: CHM 401, 402, 465, 465L, 466, 466L, or 481. BIO 211 and 212 are prerequisites for CHM 465.

CHRISTIANITY (CHR)

Richard Francis Wilson, Chair/Professor
Margaret Dee Bratcher, Lake Lambert, and Robert Scott Nash, Professors
Darlene Kaye Flaming, Janell Anne Cook Johnson, Paul Allen Lewis, and Bryan Jay Whitfield, Associate Professors
Craig T. McMahan, Assistant Professor
Olu Menjay, Visiting Assistant Professor

The curriculum of the Christianity Department is designed to achieve the following 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.

To achieve these goals, Christianity majors are required to complete successfully the following course of study. A major in Christianity consists of a minimum of 30 semester hours, including the following (all courses are three hours unless noted otherwise):

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, 380, or an appropriate CHR 410;
   b. one course in historical studies, chosen from CHR 210, 370, or an appropriate CHR 410;
   c. one course in theological studies, chosen from CHR 300, 320, 325, or an appropriate CHR 410;
   d. one course in ethical studies, chosen from CHR 330, 335, 363, or an appropriate CHR 410;
4. two colloquia:
   a. CHR 385: Junior Colloquium (one hour)
   b. CHR 485: Senior Colloquium (two hours)
5. six additional CHR hours

A major must have a minimum of 18 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 may 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.

Unless otherwise stated, either CHR 101 or 150 is a prerequisite to all other courses in the Christianity Department.

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

CHR 150. New Testament (3 hours)
An introduction to the history, literature, and theology of the New Testament. (Every semester)

CHR 170. Beginning with Abraham (3 hours)
Prerequisite: none.
A thematic exploration of the traditional scriptures of Judaism, Christianity, and Islam with attention given to the nature of sacred texts, the importance of communities of faith, and the influences of Judaism, Christianity, and Islam in contemporary global culture. The course will address at least two and no more than three relevant themes: the figure of Abraham, the emergence of monotheism, the role of prophets, women in society, violence and war, poverty, and the importance of a worshiping community. (Every Semester)

CHR 198. Special Introductory Topics in Christianity (Subtitle) (3 hours)
Study of an introductory topic in Christianity not covered in any of the departmental offerings. This course may be applied to the Christianity major or minor. (Occasionally)

CHR 210. History of Christianity (3 hours)
Prerequisite: none.
An introduction to the developments in the history of Christianity from the first century to the present with particular attention to the context of the Western World. (Every two years)

CHR 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. (Every fall semester)

CHR 270. History of Christian Theology (3 hours)
Prerequisite: none.
A study of the ways Christian theology both shapes and is shaped by developments in Western culture from the rise of Christianity through the contemporary era. (Every two years)

CHR 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. (Every three years)

CHR 302. Biblical Interpretation (3 hours)
A study of the principles and methods by which the Bible is interpreted. (Every three years)
CHR 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 prophet-
ic movement in Israel and the messages of selected prophets. Emphasis will be given to Amos, Hosea, Isaiah, Jeremiah, Ezekiel, and Second Isaiah. (Every two years)

CHR 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. (Every two years)

CHR 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. (Every two years)

CHR 320. New Testament Theology (3 hours)
Prerequisite: CHR 150.
An introduction to the theology of the New Testament. (Every three years)

CHR 325. Contemporary Christian Theology (3 hours)
An exploration of trends in Christian theology since 1960 with emphasis upon examples of
liberation theologies, contextual theologies of Asia and Africa, the emergence of postliber-
and postmodern theologies, and the changing face of evangelicalism. Some attention
also may be given to dominant mid-twentieth-century theological movements that formed
a backdrop for theological developments in the 1960s and beyond. (Every three years)

CHR 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? (Every two years)

CHR 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, eco-

CHR 353. Christianity in America (3 hours)
An examination of the history, practices, and influence of various Christian groups in the
United States. Attention will be given to the development of denominations, the rise of non-
denominational sectarian groups, and the plurality of contemporary expressions of
Christianity in America. (Every two years)

CHR 356. Eastern Religions (3 hours)
An examination of the history, sacred texts, beliefs, and practices of the major religious tra-
ditions originating in India and East Asia. Religions studied will include Hinduism,
Buddhism, Jainism, Sikhism, and religions indigenous to China and Japan. Attention will
be given to the development of these religions in their places of origin and to their growth
beyond Asia, especially in North America. (Every two years)
CHR 357. Western Religions (3 hours)
An examination of the history, sacred texts, beliefs, and practices of the major non-Christian religious traditions originating in the Middle East, Europe, Africa, and the Americas. Special attention will be given to Islam and Judaism, but other religions studied may include Zoroastrianism, African indigenous traditions, ancient European traditions, and Native American traditions. (Every two years)

CHR 361. Archaeology and Religion (3 hours)
(Same as ANT 361)
Prerequisite: permission of the instructor.
This course is designed to introduce students to: (1) the study of archaeology, (2) the study of religion(s) in a particular region and period(s), and (3) the integration of the study of archaeology and religion. Students will study the theories, objectives, methods, records, and conclusions of modern archaeology. They will also learn how to apply these elements of archeology to the study of a particular region. They will also study various aspects of a specific religion or groups of religions in the designated region, especially as that study is informed by the investigation of archaeological remains. This course may involve archaeological field work and may be offered on-site in another location (e.g. Greece). (Occasionally)

CHR 363. Women and Christianity (3 hours)
(Same as WGS 363)
Prerequisites: CHR 101 or CHR 150, and WGS 180 or permission of the instructor.
A biblical, historical, and theological examination of the role of women within the Christian tradition. (Every three years)

CHR 365. Baptist Traditions (3 hours)
A study of Baptist identity and its free-church character in the light of Baptist history. Attention will be given to its various expressions from its origins in England and the United States to the development of Baptist life around the world. (Every two years)

CHR 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. (Every three years)

CHR 385. Junior Colloquium (1 hour)
Prerequisites: junior status and declaration of a major in the department.
A course of readings and discussion based upon topics selected by members of the department and essays prepared by senior-level majors in the department. (Every semester)

CHR 398. Internship in Christianity (1-3 hours)
Prerequisites: junior or senior status.
An intensive practicum experience at an approved business, organization, or academic institution. Senior-level students, under the direction of a faculty member and an on-site supervisor, are required to engage in projects or assignments requiring at least three on-site hours per week for every hour of credit. Students will learn through observation, regular discussions with the on-site supervisor and Mercer faculty member, and written reflection. In addition, students may be required to attend training events, workshops or weekly seminars. This course may be repeated for a total of 9 hours and does not count towards a major or minor in Christianity. Graded S/U. (Every year)

CHR 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. (As needed)
CHR 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. (As needed)

CHR 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. (As needed)

CHR 485. Senior Colloquium (2 hours)
Prerequisites: senior status and declaration of a major in the department.
A course of readings and discussion based upon topics selected by members of the department and essays prepared by senior-level majors in the department. Each senior enrolled will prepare an essay under the direction of a member of the department and present the essay to the class. (Every semester)

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

COMMUNICATION STUDIES (COM) AND THEATRE (THR)
Kevin Cummings, Chair/Associate Professor
Frank Macke and Marian Zielinski, Professors
C. Jay Pendleton, Associate Professor
Scot J. Mann, Assistant Professor

The Department of Communication Studies and Theatre invites students to explore the important ways that human communication and theatre performance affect our lives, society, and culture. Central to our pursuit of understanding the complexities of communication in the 21st Century is the study of narratives, rhetoric, and human relationships from the interpersonal to the public arena of live performance. Our classes examine the ways that communication impacts the development of self, culture, and society. We focus on theoretical accounts of human interactions and the ways that those approaches to communication inform relationships in applied settings. We explore a communicology of Theatre by addressing the challenges of performance and message in the context of the theatrical experience. Students who wish to deepen their understandings of these issues may do so by pursuing degrees in Communication Studies and in Theatre. The Department’s co-curricular programs, the Mercer Debate Society and the Mercer University Theatre, actively involve students in intercollegiate debate competition and in theatrical performance.

Communication Studies (COM)
The Communication Studies major consists of a minimum of 27 hours. These must include COM 200, 400, and 420. Additional courses numbered 201 through 495 may be taken to meet the minimum requirement for hours. At least 15 hours must be upper division coursework numbered 300 or above.

A minor in Communication Studies consists of a minimum of 15 hours, including as a core, COM 200; a choice of COM 400 or 420, and nine hours of courses numbered 201 through 495. At least nine hours of the minor must be in upper division coursework numbered 300 or above.
In order to earn departmental honors in Communication Studies, a Communication Studies major must meet the following requirements: (1) a minimum overall grade point average of 3.5, and (2) achieve a grade point average of 3.5 in the Communication Studies major.

**COM 198. Special Introductory Topics in Communications**  
(3 hours)  
Study of an introductory topic in Communication Studies not covered in any of the departmental offerings. This course may be applied to the Communication Studies major or minor. (Occasionally)

**COM 200. Introduction to Communication**  
(3 hours)  
An introductory examination of the fields of study within the Communication discipline. This course focuses on themes of current interest and on fundamental research, inquiry, ethical standards, critical and creative thinking, and analytical skills. (Every semester)

**COM 210. Public Speaking**  
(3 hours)  
A study of rhetorical theory with emphasis on the preparation and presentation of public speeches. This course enables the student to compose and defend public advocacies and to discuss and promote ethical standards in public address. (Every semester)

**COM 220. 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. (Every other year)

**COM 230. Intercultural Communication**  
(3 hours)  
An exploration of theories of cultural differences and the ways to build awareness and competence in intercultural exchanges. This course explores social problems such as racism and ethnocentrism and examines the ways individuals can find common ground with people from diverse cultural backgrounds. (Every other year)

**COM 250. Interpersonal Communication**  
(3 hours)  
A study of the theories of interpersonal communication with emphasis on the application of core principles. Specifically, this course involves the identification of ways that communal systems of meanings shape our interactions and relations with others. (Every other year)

**COM 290. Intercollegiate Debate**  
(1 hour)  
Prerequisite: consent of the instructor.  
Academic credit for those who actively participate in competitive intercollegiate debate. May be repeated for up to 3 hours. (Every semester)

**COM 315. Gender and Communication**  
(3 hours)  
(Same as WGS 315)  
A study of gender in relation to the public sphere. The primary focus is on feminist approaches to rhetoric and rhetorical theory. Students will also examine how gender intersects with the study of human relationships. (Every other year)

**COM 320. Classical Foundations of Rhetorical Theory**  
(3 hours)  
An introduction to classical approaches to the study of rhetoric. The course may be taught as a history of the conflict between rhetoric and philosophy, or as an examination of key figures in classical rhetorical theory including Protagoras, Gorgias, Aristotle, Isocrates, Cicero, and Quintilian. (Every other year)
COM 340. Organizational Communication (3 hours)
A study of organizational theory and its application to professional situations. The course entails a study of the ways corporations are involved in public decision-making processes, and an examination of organizations as systems of human interaction. (Every other year)

COM 360. Persuasion in Campaigns and Social Movements (3 hours)
This course examines the importance of persuasion in social and cultural interactions. The course will be contextualized in either the study of campaigns or social movements. The focus is on developing critical thinking skills in response to persuasive messages. (Every other year)

COM 370. Communication and Family Systems (3 hours)
An exploration of families as systems with emphasis placed on the how the kinship sphere is situated within the signification order. Primary focus will be on the family as a site where identity and a sense of belonging emerge from human relations. Students will also explore descent and lineage in the context of communal activities. (Every other year)

COM 380. Argumentation (3 hours)
A study of theories of argumentation and their application to contemporary public dilemmas. Focus is on the ability to create and defend a reasoned argument. Students will engage in public advocacy concerning contemporary public controversies. (Every other year)

COM 398. Internship in Communications Studies (1-3 hours)
Prerequisites: junior or senior status.
An intensive practicum experience at an approved business, organization, or academic institution. Senior-level students, under the direction of a faculty member and an on-site supervisor, are required to engage in projects or assignments requiring at least three on-site hours per week for every hour of credit. Students will learn through observation, regular discussions with the on-site supervisor and Mercer faculty member, and written reflection. In addition, students may be required to attend training events, workshops or weekly seminars. This course may be repeated for a total of 9 hours and does not count towards a major or minor in Communication Studies. Graded S/U. (Every year)

COM 400. Communication and Culture (3 hours)
Prerequisite: COM 200 or permission of the 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. (Every year)

COM 420. Discourse and Power (3 hours)
Prerequisite: COM 200 or permission of the instructor.
A study of the interconnections between discourse and power. The course will entail an examination of the ways discourse shapes ideology and how power relations are socially and politically constituted. (Every year)

COM 490. Special Topics in Communication (3 hours)
Prerequisite: junior or senior status or permission of the instructor.
A study of some significant topic in communication not covered in the regular department offerings. The specific topics will be chosen according to needs and interests. May be repeated with different projects/topics for a maximum of 9 hours credit. (Occasionally)
COM 495. Directed Independent Study (1-3 hours)  
Prerequisite: junior or senior status or permission of the instructor.  
An advanced course in theory and research in communication. 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. (Occasionally)

Theatre (THR)  
The Theatre major consists of a minimum of 30 hours. These must include THR 115, 218, 235, 302, 326 or 327, and 337. Students must choose three additional courses from among: THR 318, 326 or 327, 336, 338, 371, 490, and 495, and one from among: ENG 233, 332, 333, 364, and 367. THR 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.

A minor in Theatre consists of a minimum of 15 hours, including THR 115, a choice of THR 218 or 235, plus three additional courses from among the following: THR 302, 318, 326 or 327, 336, 337, 338, 371, and 490.

In order to earn departmental honors in Theatre, 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 THR, and (3) a grade of Pass with Distinction on the major project.

THR 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. (Every semester)

THR 198. Special Introductory Topics in Theatre (Subtitle) (3 hours)  
Study of an introductory topic Theatre in not covered in any of the departmental offerings. This course may be applied to the Theatre major or minor. (Occasionally)

THR 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. (Every year)

THR 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. (Every other year)

THR 292. Theatre Practicum (1 hour)  
Prerequisite: consent of the Instructor.  
Academic credit for those who execute significant creative assignments in theatre productions. One hour credit for each semester of satisfactory participation. (Every semester)

THR 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. (Every two years)

**THR 318. Acting II**  
(3 hours)  
**Prerequisite:** THR 218  
Extensive development of acting techniques for stage and film. Emphasis will be given to classical character development, dialect skills, acting for the camera, audition technique, and professional resume development. (Every year)

**THR 326. A Survey of Theatre History I**  
(3 hours)  
A survey of theatre history from its primitive origins to 1750. (Every fourth year)

**THR 327. A Survey of Theatre History II**  
(3 hours)  
A survey of theatre history from 1750 to the present, with units on Chinese, Japanese, and Indian Theatre. (Every fourth year)

**THR 336. Lighting for Stage and Screen**  
(3 hours)  
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. (Every other year)

**THR 337. Scene Design**  
(3 hours)  
A 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. (Every other year)

**THR 338. Costume Design**  
(3 hours)  
A 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. (Every other year)

**THR 371. Beginning Playwriting**  
*(Same as ENG 371)*  
(3 hours)  
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. (Every two years)

**THR 398. Internship in Theatre**  
(1-3 hours)  
**Prerequisites:** junior or senior status.  
An intensive practicum experience at an approved business, organization, or academic institution. Senior-level students, under the direction of a faculty member and an on-site supervisor, are required to engage in projects or assignments requiring at least three on-site hours per week for every hour of credit. Students will learn through observation, regular discussions with the on-site supervisor and Mercer faculty member, and written reflection. In addition, students may be required to attend training events, workshops or weekly seminars. This course may be repeated for a total of 9 hours and does not count towards a major or minor in Theatre. Graded S/U. (Every year)

**THR 490. Special Topics in Theatre**  
(3 hours)  
**Prerequisite:** junior or senior status or consent of the 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 repeated with different topics for a maximum of nine hours credit. (Occasionally)
THR 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. (Occasionally)

COMPUTER SCIENCE (CSC), INCLUDING COMPUTATIONAL SCIENCE AND INFORMATION SCIENCES AND TECHNOLOGY (IST)

David L. Cozart, Chair/Professor
Robert A. Allen, Andrew J. Pounds, and Laurie White, Professors
Andrew Digh and Martin Zhao, Associate Professors

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.

Mercer University’s Bachelor of Science degree program in computer science is accredited by the Computing Accreditation Commission (CAC) of ABET, Inc. (http://www.abet.org), the recognized accreditor of college and university programs in applied science, computing, engineering, and technology. ABET accreditation demonstrates a program’s commitment to providing its students with a quality education. 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 graduate programs or to obtain employment as computer science professionals. Forty-three semester hours of computer science courses are required for this degree.

The following program educational outcomes have been established for the BS CSC program. Graduates of the program (1) will have sufficient breadth and depth in the fundamental scientific and technical areas of computer science to succeed as a computing professional and/or as a graduate student, (2) will be life-long learners who are able to learn, evaluate, and utilize advances in their field, (3) will have the ability to work together with others in a variety of contexts effectively communicating their ideas both orally and in written form, (4) will be able to recognize and make ethical, moral and social decisions in their professional environment, and (5) will be capable of applying software development methodology to the analysis, design, implementation and testing of a software system.

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 inte-
grated 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 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 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) immediately following this section.

The Computer Science Department also offers the Bachelor of Science in Computational Science, a new discipline that combines course work in applied mathematics, computer science, and one of the scientific disciplines. A complete description of this program follows the Computer Science program descriptions below.

The Computer Science Department provides course work for the Personalized Program of Study (PPS) in the Stetson School of Business and Economics. Students interested in combining computer science and business should consider this program of study. Information related to this major is contained within the STETSON SCHOOL OF BUSINESS AND ECONOMICS section of this catalog.

The Computer Science Department provides course work for the Business Information Systems (BIS) major offered by the Stetson School of Business and Economics. Students interested in combining information technology and business should consider this program. Information related to this major is contained within the STETSON SCHOOL OF BUSINESS AND ECONOMICS section of this catalog.

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 (30 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 (3 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
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 211 and BIO 212 (10 hours), or
   CHM 111 and CHM 112 (8 hours), or
   PHY 161 and PHY 162 (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 Test in Computer Science is required.

8. Students will successfully prepare and deliver a departmentally approved presenta-
   tion.

Requirements for the B.A. degree:

1. Computer Science Courses (14 hours):
   CSC 204 (4 hours)
   CSC 205 (4 hours)
   CSC 245 (3 hours)
   CSC 322 (3 hours) or CSC 323 (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 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.

Computational Science

Computational science is a new field that is rapidly emerging out of collaborative research by teams of mathematicians, computer scientists, and scientists, covering a wide variety of disciplines from the physical, health, behavioral, and natural sciences. Rather than viewing computational science simply as potential applications of core subjects in their disciplines, mathematicians and computer scientists see these collaborative projects as a source of new algorithms and ideas that will extend and enrich those fields. Scientists also see computational science as a new endeavor, taking a place along side theoretical science and experimental science as a fundamental new mode of scientific inquiry. Because computational science seeks to integrate knowledge and methodologies from all of these disciplines, it is a subject which is distinct from any of them.

The BS in Computational Science draws heavily from the disciplines of computer science and applied mathematics, as well as the scientific discipline in which the student chooses to minor.

Itemized List of Requirements for the B.S. Degree in Computational Science:

A. Computer Science (29 hours)
   1. Computer Science Required Courses (26 hours)
      - CSC 204 (4 hours) - Programming I
      - CSC 205 (4 hours) - Programming II
      - CSC 245 (3 hours) - Data Structures and Algorithm Analysis
      - CSC 315 (3 hours) - Introduction to Computer Graphics
      - CSC 335 (3 hours) - Numerical Methods
      - CSC 415 (3 hours) - Graphics Simulation and Visualization
      - CSC 435 (3 hours) - High Performance Scientific Computing
      - CSC 499 (3 hours) - Undergraduate Research
      The undergraduate research project undertaken in CSC 499 must be completed in conjunction with a faculty member from another department or school.
   2. Computer Science Electives (3 hours)
      Three hours of additional CSC course at or above the 300 level.

B. Applied Mathematics (24 hours)
   1. Mathematics Core (12 hours)
      - MAT 191 (4 hours) - Calculus I
      - MAT 192 (4 hours) - Calculus II
      - MAT 225 (4 hours) - Topics in Discrete Mathematics
2. Mathematics Electives (12 hours) selected from:
   - MAT 293 (3 hours) - Multivariable Calculus
   - MAT 320 (3 hours) - Introduction to Probability and Statistics
   - MAT 330 (3 hours) - Differential Equations
   - MAT 340 (3 hours) - Linear Algebra
   - MAT 345 (3 hours) - Advanced Mathematical Modeling

C. Sciences (21 to 29 hours)
   1. Two Science Sequences from (15 to 20 hours)
      (a) BIO 211/212 (10 hours)
      (b) CHM 111/112 or CHM 115/241 (8 hours)
      (c) ENB 150 and two courses chosen from ENB 105, 110, 220, or 310 (12 hours)
      (d) PHY 161/162 (8 hours)
      (e) ECN 160 or ECN 150/151, and ECN 353 (7-9 hours)
      (f) PSY 101 and one course from each of the following two groups: Group 1: PSY 210, 215, 225 Group 2: PSY 230, 235, 240, 245, 260, 270. (9 hours)
      (g) SOC 101, SOC 304, and one additional 3 credit SOC course (12 hours)
      (h) POL 101, POL 200, and POL 253 (9 hours)

   2. Additional Science Depth (6-9 hours): Requisite courses to complete the minor in one of the disciplines used to satisfy the science sequence requirement in part 1.

D. CLA General Education Requirements (38-46 hours)

   CSC 125. Introduction to Computing (3 hours) 
   (Same as IST 125)
   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. (Every semester)

   CSC 198. Special Introductory Topics in Computer Science (Subtitle) (3 hours)
   Study of an introductory topic in Computer Science not covered in any of the departmental offerings. This course may not be applied to the Computer Science major or minor. (Occasionally)

   CSC 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 be introduced to the formal logical and mathematical processes behind algorithm construction. They will furthermore learn how to use the computer to test and debug algorithms of their own design. (Every Semester)

   CSC 205. Programming II (4 hours)
   Prerequisite: CSC 204.
   A continuation of CSC 204 with an emphasis on advanced 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). (Every semester)
CSC 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. (Every year)

CSC 212. Programming Team Strategies (1 hour)
Prerequisite: competence in a programming language.
This course allows students to practice and discuss skills needed to be successful in computer programming team competitions. Grading is S/U. Can be repeated for a maximum of 3 hours. (Every year)

CSC 245. Data Structures and Algorithm Analysis (3 hours)
Prerequisites: 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. (Every semester)

CSC 285. Topics in Computer Science (1-4 hours)
Prerequisite: consent of the instructor.
Variable credit, 1-4 hours. May be repeated with different topics. (Occasionally)

CSC 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. (Occasionally)

CSC 310. File Structures and Advanced Algorithms (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. Topics will include indexing, external sorting, B-trees, extendible hashing, and basic paradigms for the design and analysis of efficient algorithms. (Every two years)

CSC 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. (Every two years)

CSC 315. Introduction to Computer Graphics (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, stereoscopic views, viewing in three dimensions, and device interaction. Visual realism and animation using color, shading, lighting, and texturing will also be introduced. Each student will be required to complete a project utilizing a graphics workstation. (Every two years)

CSC 322. Computer Organization and Assembly Language (3 hours)
Prerequisite: CSC 204.
Designed to provide an introduction to fundamental concepts of the organization and operation of a computer and to the study of assembly language programming. Included will be
the study of register sets, symbolic addresses, addressing techniques, parameter-passing techniques, and data representation. (Every two years)

**CSC 323. Computer Organization and Logic Design** (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. (Every two years)

**CSC 324. Digital System Design** (3 hours)
Prerequisite: CSC 323.
A continuation of the hardware design process begun in CSC 323. (Occasionally)

**CSC 330. Organization of Programming Languages** (3 hours)
Prerequisite: CSC 205.
Corequisite: CSC 322.
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. (Every two years)

**CSC 335. Numerical Methods** (Same as MAT 335) (3 hours)
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. (Every two years)

**CSC 340. Introduction to the Theory of Computing** (3 hours)
Prerequisites: MAT 225 and the 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. (Every two years)

**CSC 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. (Every year)

**CSC 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 neutral nets. (Every two years)
CSC 398. Internship in Computer Science (1-3 hours)
Prerequisites: junior or senior status.
An intensive practicum experience at an approved business, organization, or academic institution. Senior-level students, under the direction of a faculty member and an on-site supervisor, are required to engage in projects or assignments requiring at least three on-site hours per week for every hour of credit. Students will learn through observation, regular discussions with the on-site supervisor and Mercer faculty member, and written reflection. In addition, students may be required to attend training events, workshops or weekly seminars. This course may be repeated for a total of 9 hours and does not count towards a major or minor in Computer Science. Graded S/U. (Every year)

CSC 415. Graphics Simulation and Visualization (3 hours)
Prerequisite: CSC 315.
Advanced topics in computer graphics such as viewing in three dimensions, representation of three-dimensional surfaces and shapes, texture mapping, hierarchical kinematic and solid modeling, rendering and animation of articulated objects, scientific visualization, and physical aspects of simulation such as collision detection and gravity will be covered. The design and implementation of a graphics project focusing on real-time simulation will be required. (Every two years)

CSC 435. High Performance Scientific Computing (3 hours)
Prerequisite: CSC 335.
An introduction to modern methods in large-scale scientific computing. Topics will include architectures for high performance and parallel computing utilizing both shared memory and distributed memory hierarchies. Algorithms for parallel computing, as well as parallel implementations of codes used in numerical methods, will be studied and their performance enhancements examined. Emphasis will be placed on code development, debugging, testing, and optimization on high performance systems. Students will complete projects related to current computational problem in science and/or engineering. (Every two years)

CSC 450. Compiler Construction (3 hours)
Prerequisites: 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. (Every two years)

CSC 460. Operating Systems (3 hours)
Prerequisites: 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. (Every two years)

CSC 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. (Every two years)

CSC 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. (Occasionally)
CSC 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. (Occasionally)

INFORMATION SCIENCE AND TECHNOLOGY (IST)

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 an 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 interdisciplinary 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 Computer Programming, Internet Development, Computer Networks, or Database Development. Each of these emphases 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 in Computational Science, a new discipline that combines course work in applied mathematics, computer science, and one of the scientific disciplines. A complete description of this program follows the Computer Science program descriptions above.

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 Catalog.

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 1-7 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, Computer Networks, or Database Development (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
   d. Database Development
      - IST 318. Database Administration
      - IST 351. Dynamic Content Delivery
      - IST 463. Advanced Database Development

3. Information Science and Technology Electives (4 courses: 12 hours)
   One course from each of the four areas. (Students with an emphasis in Database Development must take IST 276 and one course each from three of the four listed 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. IST 349. 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:
   STA 126. Elementary Statistical Methods (or MAT 320)
   MAT 141. Calculus for the Social Sciences (or MAT 191)

6. Communication (1 course: 3 hours):
   TCO 341. Technical Communication

7. Satisfactory completion of one appropriate certification test selected and approved in coordination with faculty advisor.

Requirements for B. A. 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 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. IST 349. Management Information Systems

4. Two additional IST electives numbered 300 or above (2 courses: 6 hours)

5. Mathematics (2 courses: 6 hours)
   STA 126. Elementary Statistical Methods (or MAT 320)
   MAT 141. Calculus for the Social Sciences (or MAT 191)

6. Satisfactory completion of one appropriate certification test selected and approved in coordination with faculty advisor.
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.

A minor in Web Technology consists of a minimum of 15 hours, including:
1. TCO 285, Document and Web Design
2. IST 276, Introduction to Internet Programming
3. TCO 325, Multimedia
4. IST 351, Dynamic Content Delivery, and
5. one 3-hour IST course numbered 300 and above.

Students receiving the Minor in Web Technology may not also receive the Engineering School's Minor in Web Design.

IST 125. Introduction to Computing (3 hours)
(Same as CSC 125)
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. (Every semester)

IST 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. (Every semester)

IST 198. Special Introductory Topics in Information and Science Technology (Subtitle) (3 hours)
Study of an introductory topic in Information Science and Technology not covered in any of the departmental offerings. This course may not be applied to the Information Science and Technology major or minor. (Occasionally)

IST 220. Introduction to Databases (3 hours)
Prerequisite: CSC 125 or 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. (Every two years)
IST 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. (Every year)

IST 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. (Every two years)

IST 276. Introduction to Internet Programming (3 hours)
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, and JavaScript. (Every two years)

IST 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. (Every year)

IST 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. (Occasionally)

IST 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. (Every two years)

IST 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. (Every two years)

IST 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. (Every year)

**IST 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. (Every two years)

**IST 349. Management Information Systems** (3 hours)
(Also as BUS 349 and IDM 470)
Prerequisites: IST 220; or EGR 126; or CSC 125, ACC 205, MKT 361, and MGT 363; or consent of the instructor.
A study of management information systems and the impact these systems have on management decision making. The emphasis of this course is on data collection techniques, information flow within an organization, techniques of problem analysis, and design and implementation of a system. (Every year)

**IST 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. (Every two years)

**IST 351. Dynamic Content Delivery** (3 hours)
Prerequisite: IST 276.
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. (Every two years)

**IST 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. (Every year)

**IST 398. Internship in Information Science and Technology** (1-3 hours)
Prerequisites: junior or senior status.
An intensive practicum experience at an approved business, organization, or academic institution. Senior-level students, under the direction of a faculty member and an on-site supervisor, are required to engage in projects or assignments requiring at least three on-site hours per week for every hour of credit. Students will learn through observation, regu-
lar discussions with the on-site supervisor and Mercer faculty member, and written reflection. In addition, students may be required to attend training events, workshops or weekly seminars. This course may be repeated for a total of 9 hours and does not count towards a major or minor in Information Science and Technology. Graded S/U. (Every year)

**IST 461. Web Server Issues** (3 hours)
Prerequisite: IST 351.
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 Webserver. 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. (Every two years)

**IST 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. (Every two years)

**IST 463. Advanced Database Development** (3 hours)
Prerequisites: IST 220 and IST 350, or IST 318 and IST 351, 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. (Every two years)

**IST 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. (Every year)

**IST 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. (Every year)

**IST 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. (Every year)
IST 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. (Occasionally)

CREATIVE WRITING

This major is under the direction of the Department of English. For a description of the degree requirements, see the ENGLISH section of this catalog.

CRIMINAL JUSTICE (CRJ)

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

CULTURAL STUDIES

Janell Johnson, Chair/Associate Professor  
Douglas Thompson, Associate Professor  
Mary Ann Drake, Professor  
Randall Harshburger, Associate Professor

The Department of Cultural Studies consists of three multi-disciplinary programs that provide a holistic and integrated approach to the study of cultural issues and concerns. For the description of these programs of study, see the following headings in this catalog:

AFRICANA STUDIES (AFR)  
SOUTHERN STUDIES (SST)  
WOMEN’S AND GENDER STUDIES (WGS)

ECONOMICS (ECN)

(See also EUGENE W. STETSON SCHOOL OF BUSINESS AND ECONOMICS for a description of the Bachelor of Business Administration degree.)

Allen K. Lynch, Chair/Associate Professor

The Economics Department offers a major in Economics leading to 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: The major consists of 31 semester hours to include: MAT 191 or 141; STA 126 or MAT 320; ACC 204; ECN 150, 151, 302, 303, 353 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.

Requirements for a minor in economics: The minor consists of ECN 150, ECN 151, STA 126 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.

ECN 150. Principles of Microeconomics (3 hours)
Prerequisite: mathematics competency or completion of a college mathematics course. This course requires the 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. (Every semester)

ECN 151. Principles of Macroeconomics (3 hours)
Prerequisite: mathematics competency or completion of a college mathematics course. The course requires 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. (Every semester)

ECN 198. Special Introductory Topics in Economics (3 hours)
Study of an introductory topic Economics in not covered in any of the departmental offerings. This course may be applied to the Economics major or minor. (Occasionally)

ECN 301. Money, Credit, and Banking (3 hours)
(Cross-listed with FIN 301)
Prerequisites: ECN 150, 151 and junior status. This course focuses upon a functional study of monetary, banking, and credit structures, including a critical examination of monetary theory and policy recommendations. (Every year)

ECN 302. Intermediate Microeconomic Theory (3 hours)
Prerequisites: ECN 150, 151 and junior status. This course requires the 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. (Every year)

ECN 303. Intermediate Macroeconomic Theory (3 hours)
Prerequisites: ECN 150, 151 and junior status. This course requires the study of the forces determining the level of income, employment, and prices. Monetary theory and the theory of economic fluctuations are reviewed, and public policies dealing with level-of-income and with aggregate economic welfare are examined. (Every two years)

ECN 353. Introduction to Econometrics (3 hours)
Prerequisites: ECN 150, 151, STA 126 or MAT 320, MAT 191, and junior status. This course requires the study of the methods of empirically verifying economic theory. The course will include the estimation of single and multiple equation models that are often used in economic analysis. 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. (Every two years)
ECN 372. American Economic History (3 hours)
Prerequisites: ECN 150, 151, HIS 165.
This course requires the study of the institutional and structural factors that contributed to the development of the American economy. (Occasionally)

ECN 398. Internship in Economics (1-3 hours)
Prerequisites: junior or senior status.
An intensive practicum experience at an approved business, organization, or academic institution. Senior level students, under the direction of a faculty member and an on-site, agency supervisor are required to engage in projects or assignments requiring at least three, on-site hours per week for every hour of credit. Students will learn through observation, regular discussions with the on-site supervisor and Mercer faculty member, and written reflection. In addition, students may be required to attend training events, workshops or weekly seminars. This course may be repeated for a total of 9 hours and does not count towards a major or minor in Economics. Graded S/U. (Every year)

ECN 432. Urban and Regional Economics (3 hours)
Prerequisites: ECN 150 and ECN 151.
This course offers students the opportunity to study a variety of important social and economic phenomena in urban and regional settings. Topics covered in this course include an economic analysis of poverty, housing, land use, transportation, and public services, with special references to social problems arising from the uneven distribution and immobility of resources. (Occasionally)

ECN 436. Economics of Sports (3 hours)
Prerequisites: ECN 150 and ECN 151.
This course examines economic issues pertaining to professional and amateur sports. Microeconomic theory is extended into this area of interest. Topics covered include the expansion of leagues, the economic impact of new stadiums, the economics of the media and sport, labor market issues of free agency, NCAA rules and collegiate sports. (Every two years)

ECN 437. Law & Economics (3 hours)
Prerequisites: ECN 150 and ECN 151.
This course uses the tools of microeconomics to examine the effects of different legal rules, the efficiency of legal outcomes, and the economics of social and legal norms. The philosophies of judicial activism and rule-based law will be compared and contrasted. The economics of contracts, torts, property law, and antitrust law will also be explored. (Every three years)

ECN 438. Public Finance (3 hours)
Prerequisites: ECN 150 and ECN 151.
This course is a survey of public economics theory. Topics include social welfare, taxation, public goods, voting efficiencies, and the role of government. (Occasionally)

ECN 441. International Economics (3 hours)
Prerequisites: ECN 150 and ECN 151.
This course is 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. (Every year)
ECN 443. Labor Economics (3 hours)
Prerequisites: ECN 150 and ECN 151.
This course focuses on the economic behavior of labor markets. It includes a study of major labor issues in the United States and the social and economic policies affecting the labor movement. The economic organization of labor organizations and trade unionism will also be covered. The treatment of this area will also include discussions of recent and pending legislation in the states and nation. (Every two years)

ECN 445. Industrial Organization (3 hours)
Prerequisites: ECN 150 and ECN 151.
This course focuses on the industrial organization and government regulation of business enterprises, market structures. The course will focus on analyzing the conduct and performance of firms operating within various competitive environments. Particular attention will be given to the development and impact of antitrust regulation. (Every two years)

ECN 448. Seminar in Economic Growth (3 hours)
Prerequisites: ECN 150 and ECN 151.
This is a seminar in the economic analysis of 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. (Occasionally)

ECN 450. The Economic and Moral Foundations of Capitalism (3 hours)
Prerequisites: ECN 150 and ECN 151
The course examines the interrelationship between economics and ethics. It sheds light on how an understanding of economics can lead to more ethical choices, and it also looks at how ethical ideas shape economic life. The course examines a number of topics, including justifications for property rights, the controversy over income inequality, the role of profits in an economic system, self interest versus selfishness, social entrepreneurship, public aid and welfare, and many other topics. (Occasionally)

ECN 452. Environmental Economics (3 hours)
Prerequisites: ECN 150 and ECN 151.
This course is an examination of the interrelationship that 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 ability of free markets to allocate scarce environmental resources efficiently, across both space and time, among competing uses. (Every three years)

ECN 456. Readings in Political Economy (1 hour)
Prerequisites: ECN 150 and ECN 151.
The course is a seminar that focuses on current research in political economy. Students read current literature dealing with issues of political economy. Authors visit throughout the semester. Students can take the class up to three times. Hours in this class do not count toward upper level economics elective requirement. (Occasionally)

ECN 477. Special Topics in Economics (Subtitle) (1-3 hours)
Prerequisites: ECN 150 and ECN 151.
This course provides an intensive study of some significant topic in economics that is not otherwise covered by the school’s course offerings. Topics will be chosen by faculty in consultation with students who register for the course. (Occasionally)
ECN 478. Research in Economics (Subtitle) (1-3 hours)
Prerequisites: ECN 150, 151, one ECN course numbered 300 or higher.
This course is a research-oriented course focusing on an important topic in economics that is not otherwise covered by the school's offerings. The course features student research, independent study, and discussion. Topics will be chosen by faculty in consultation with students who register for the course. (Occasionally)

ECN 494. Honors Thesis (1 hours)
Prerequisite: admission to the honors program.
This course requires 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. (Occasionally)

ENGLISH (ENG)
Gary A. Richardson, Chair/Professor
Richard C. Fallis, Chester J. Fontenot, Jr., Jonathan C. Glance, Gordon Ray Johnston, Mary Alice Morgan, Andrew Silver, and Anna K. Silver, Professors
Deneen Senasi, Associate Professor
David Davis and Mary Raschko, Assistant Professors

The English Department offers two majors: English and Creative Writing.

The major in English consists of thirty-three (33) hours. At the 200-level, those pursuing the English major or the Secondary Certification Program in English Track are expected to successfully complete ENG 263 (or its equivalent) and one other 200-level course (224, 225, 226, 233, 234, 235, 236, 237, 240, 264 or 265). At the 300-level, those pursuing the English major or the Secondary Certification Program in English are expected to successfully complete ENG 301, either 320 or 321, one course in English literature before 1700 (330, 335, 340, or 342), one course in British literature 18th, 19th, and early 20th centuries (346, 347, 348, or 349), one course in American literature 18th, 19th, and early 20th centuries (352, 353 354, 357 or 359), one course in British and/or American 20th century (358, 360, 362, 364, 366, 367, 368 or 369), and two electives number 300 or above. All English majors and students pursuing Secondary Certification Program in English Track will complete their program by taking 480S.

Please note ENG 380 might fit in any of the above categories depending upon topic.

The major in Creative Writing consists of thirty-three (33) hours. All creative writing students will successfully complete a program devoted to literary history and background reading which will include at the 200-level: ENG 263 and one 200-level genre or thematically organized course (233, 234, 235, 236, 237 or 240). At the 300-level, those pursuing the Creative Writing Track are expected to successfully complete ENG 301, either 320 or 321, one course in British literature 18th, 19th, and early 20th centuries (346, 347, 348, or 349), one course in American literature 18th, 19th, and early 20th centuries (352, 353 354, 357 or 359), one course in British and/or American 20th century (358, 360, 362, 364, 366, 367, 368 or 369). Creative Writing majors wishing to emphasize poetry will successfully complete 308, 309, 311, and either 485 (Sams Seminar in Poetry) or 487. Creative Writing majors wishing to emphasize fiction will successfully complete 308, 309, 312, and either 485 (Sams Seminar in Fiction) or 487. Creative Writing majors wishing to emphasize playwriting will successfully complete 308 or 309, ENG/THR 371, ENG 372, and (Sams Seminar in Playwriting) or 487. Students seeking a generalist writing emphasis must pair ENG 311 with the ENG 485 (Sams Seminar in Fiction or Drama); or ENG 312 with the ENG 485 (Sams
Seminar in Poetry or Drama); or ENG/THR 371 with the ENG 485 (Sams Seminar in Fiction or Poetry).

In addition to the course requirements detailed above, majors in English may attain Departmental Honors 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 in Creative Writing may attain Departmental Honors 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 on all major tracks.

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 English courses above ENG 108, including at least one course from 233, 234, 235, 263, 264 or 265, and three courses numbered 300 or above.

A minor in Creative Writing consists of five English courses in Creative Writing including 307, 308, 309 and two courses chosen from the following list: 311, 312, 371, or 372, 485, 487, 498.

Secondary Teacher Certification Program in English

Teacher certification in English (6-12) is available to English majors who successfully complete the regular Literature Track program and ENG 323 or 325. Students planning to teach English in secondary school should notify their advisor and contact the secondary education advisor in Tift College of Education. Required courses in education include EDUC 210, 220, 256, 283, 357, 398, 399, 406, 468, 469, 476, 485, and 492. Please consult the TIFT COLLEGE OF EDUCATION section of this catalog for more details.

ENG 108. Composition I (4 hours)
Prerequisite: consent of the English Department Chair
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. (This course is offered only in summer terms for provisionally admitted students.)

ENG 224. The Study of a Literary Theme in Western Heritage: (variable topic) (3 hours)
This course examines themes related to Western Heritage through various literary works. In addition to learning how to examine texts closely and carefully, the student will be required to develop an ability to read, think, and write critically. (Occasionally)

ENG 225. The Study of a Literary Theme in Religious Heritage: (variable topic) (3 hours)
This course examines themes related to Religious Heritage through various scriptural texts and literary works. In addition to learning how to examine texts closely and carefully, the student will be required to develop an ability to read, think, and write critically. (Occasionally)
ENG 226. The Study of a Literary Theme in Creative Expression: (variable topic) (3 hours)
This course examines themes related to Creative Expression through various literary works. In addition to learning how to examine texts closely and carefully, the student will be required to develop an ability to read, think, and write critically. (Occasionally)

ENG 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. (Every year)

ENG 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. (Every year)

ENG 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. (Every year)

ENG 236. The Study of a Literary Theme: (variable topic) (3 hours)
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. With different topics, the course may be repeated twice for credit. (Every semester)

ENG 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. (Every other year)

ENG 240. Multicultural Women Writers (3 hours)
(Same as WGS 240)
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. (Every two years)

ENG 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. Students will inquire about, reflect upon, and interpret major literary works that codify and problematize Western values. Students will gain greater understanding of political, religious, and social developments from the Anglo-Saxon era in England to the Restoration of the monarchy after the English Civil War. Readings will explore human nature, human relationships, and/or humans’ relation to the divine. Required for the English major. (Every semester)

ENG 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. The transformation of England during this period highlights the dominant forces that characterized late Western Society and created our present. English literature of these periods explores the ramifications of, celebrates, and bemoans these changes. Students
engage the Western tradition, facilitating historical consciousness and awareness of major developments, through features that are more pronounced within literature. (Every semester)

ENG 265. Survey of American Literary Masters (3 hours)
A study of major American writers from the colonial period to the present. (Every semester)

ENG 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. (Every semester)

ENG 307. Essay Writing (3 hours)
Writing in a variety of essay forms with special emphasis on the relationships among writer, subject, and reader. (Every three years)

ENG 308. Introduction to Poetry Writing (3 hours)
This course teaches the writing of poetry based on traditional and contemporary models. Students read widely in poetry to learn writing techniques, conventions, and forms, and then use these techniques, conventions, and forms to generate their own work and develop a voice as a poet. (Every year)

ENG 309. Introduction to Fiction Writing (3 hours)
This course teaches the writing of fiction based on traditional and contemporary models. Students read widely in fiction to learn writing techniques, conventions, and forms, and then use these techniques, conventions, and forms to generate their own work and develop a voice as a writer. (Every year)

ENG 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 portfolio. (Every year)

ENG 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 portfolio. (Every year)

ENG 320. Shakespeare I: Early Plays (3 hours)
A study of Shakespeare's dramatic works before 1601, including comedies, such as Twelfth Night, English history plays, such as Henry V, and early tragedies, such as Hamlet. The course examines questions of language, convention, and performance, while working to develop students' skills as thoughtful close readers of Shakespeare's works. Issues of genre, gender, race and ethnicity, class, and identity are also considered, focusing on how such categories both reflect and help to create early modern culture, and how the plays' exploration of these aspects of human experience continue to be relevant in the twenty-first century. (Every Year)

ENG 321. Shakespeare II: Later Plays (3 hours)
A study of Shakespeare's dramatic works between 1601 and 1613. Plays to be considered include major tragedies, such as Othello, so-called problem plays, such as Measure for
Measure, and the romances, such as The Tempest. The course examines questions of language, convention, and performance, while working to develop students’ skills as thoughtful close readers of Shakespeare’s works. Issues of genre, gender, race and ethnicity, class, and identity are also considered, focusing on how such categories reflect and help to create early modern culture, and how the plays’ exploration of these aspects of human experience continue to be relevant in the twenty-first century. (Every Year)

**ENG 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. (Occasionally)

**ENG 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. (Every year)

**ENG 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. (Every year)

**ENG 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. (Every two years)

**ENG 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. (Every two years)

**ENG 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. (Every two years)

**ENG 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. (Every two years)

**ENG 346. Restoration and Eighteenth-Century Literature** (3 hours)
Using the works of canonical figures such as Dryden, Pope, Addison, Swift, Defoe, Fielding, Johnson, Goldsmith and Gray, this course charts transformations of English poetry and drama, as well as the emergence of the literary essay and novel. In addition, examination of criminal narratives, working class poetry, spiritual autobiographies and slave narratives, provides a contrasting, non-elite perspective to the period. In sum, the course provides a comprehensive investigation of literary responses to the promises and problems – individual and collective – of the Enlightenment. (Occasionally)

**ENG 347. Poetry and Prose of the Romantic Movement** (3 hours)
A study of the themes, cultural contexts and development of English Romanticism, through the poetry and prose—both essays and fiction—of authors such as Blake, Godwin, Wollstonecraft, the Wordsworths, Coleridge, Byron, the Shelleys, Hemans, and Keats. (Every two years)
ENG 348. Victorian Poetry and Prose (3 hours)
This course studies the major writers of the Victorian age in Britain. In order to best understand these authors, we will read them alongside cultural documents that illuminate the concerns of the age, including industrialization, the roles of men and women, religious faith, childhood, and the place of art in society. Authors whom we will study may include Tennyson, Dickens, Browning, the Brontës, the Rossettis, and Hopkins. (Every two years)

ENG 349. The English Novel (3 hours)
An overview of the development of the English novel through representative works by major authors, such as Richardson, Austen, Dickens, Thackeray, Eliot, and Hardy. Discussions will explore central themes of the English novel: marriage, money, morals and manners, and gendered concepts of and attitudes toward ruin. (Every two years)

ENG 352. Romanticism in American Literature (3 hours)
An exploration of the wildly fertile period of literary and religious experimentation from 1820-1865. The class will explore America's first counter-cultural movement in transcendentalism, Nathaniel Hawthorne and Herman Melville's energetic responses to that movement, and the best-selling female authors that Nathaniel Hawthorne called “mad scribbling women.” The course concludes with a study of Emily Dickinson's attempt to bridge the gap between the spiritual rigors of Calvinism and the new freedom of transcendentalism. (Every two years)

ENG 353. Realism in American Literature (3 hours)
A study of literature from one of the most controversial and turbulent eras in American history, from Reconstruction to the rise of modernism. The class will explore American literature’s struggle to address the great fractures of American life during the Gilded Age, from the failures of inter-racial democracy to the rise of worker unrest to the struggle for women's rights. Authors may include Louisa May Alcott, Francis Harper, Charles Chesnutt, Mark Twain, Kate Chopin, Elizabeth Stuart Phelps, Rebecca Harding Davis, William Dean Howells, Stephen Crane, Frank Norris, and Upton Sinclair. (Every two years)

ENG 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. (Every two years)

ENG 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. (Every two years)

ENG 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. (Every two years)

ENG 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. (Every year)

**ENG 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. (Every year)

**ENG 362. Modern Poetry (3 hours)**

This course will examine modern poetry as a collection of literary movements with many different aesthetic and ideological permutations. Among the movements and trends that we will discuss are Imagism, High Modernism, Popular Modernism, Objectivism, and Confessionalism. We will become familiar with many of the most innovative and important authors writing from the 1870's through the 1960's. Authors whom we will study include Yeats, Eliot, Frost, Williams, Hughes, Millay, Cummings, Brooks, Ginsberg, Levertov, and Bishop. (Every two years)

**ENG 364. Modern Drama (3 hours)**

A journey through the most innovative, controversial, and revolutionary period in the history of modern theater, this class will explore explosive works of drama from the riot-inducing plays of Ibsen to the laugh-inducing nihilistic theater of the absurdists. Along the way students will read, among other works, Anton Chekhov's tragic-comedies, August Strindberg's vicious battles between the sexes, Bertolt Brecht's comic-musical calls to rebellion, and Tennessee Williams's navigations between desire and death. (Every two years)

**ENG 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, James, Fitzgerald, Hemingway, Faulkner. (Every two years)

**ENG 367. Contemporary Drama: 1965 to Present (3 hours)**

A study of some of the most inventive and transformative contemporary playwrights, from Tom Stoppard and Maria Irene Fornes to Tony Kushner and Suzan-Lori Parks, students will explore plays which dare and defy audiences to look beneath the surface of middle-class life to find what lies urgent and unexpressed below. (Every two years)

**ENG 368. Contemporary Poetry: 1965 to Present (3 hours)**

A study of major poets writing in English in a range of forms since the mid 1960s. Major topics include postmodernism, postcolonialism, confessional poetry, the Beats, Black Mountain poetics, the Black Arts movement, New Formalism, feminist verse, translation, and innovations in form. (Every two years)

**ENG 369. Contemporary Fiction: 1965 to Present (3 hours)**

A study of major fiction writers writing in English since 1965 and of the forms, conventions, adaptations, and innovations of their work. Major topics include postmodernism, postcolonialism, absurdism, magical realism, minimalism, hyper-realism, “sudden” fiction, metafiction, regionalism, and the evolution of the American short story. (Every two years)
ENG 371. Beginning Playwriting (3 hours)  
(Same as THR 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. (Occasionally)

ENG 372. Screenwriting (3 hours)  
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 film making; and marketing strategies. (Occasionally)

ENG 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. (Every two years)

ENG 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. (Every year)

ENG 382. Special Topics in Literature and Film (3 hours)  
A study of some significant topic in literature and film not included in the regular departmental offerings. May be taken twice for credit in the English major if the topic varies. (Every two years)

ENG 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. (Every semester)

ENG 483. Advanced Playwriting Workshop (3 hours)  
Prerequisites: junior or senior standing; ENG/THR 371 and ENG 372.  
A portfolio (two complete plays) approved by the instructor may substitute for ENG/THR 371 and/or ENG 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). (Occasionally)

ENG 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. (Occasionally)

ENG 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. (Every year)

**ENG 487. Advanced Creative Writing Workshop** *(3 hours)*
Prerequisites: junior or senior standing, ENG 310, 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. (Every two years)

**ENG 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. (Occasionally)

**ENG 498. Internship in Editing, Writing, or Research** *(1-3 hours)*
Prerequisite: declaration of an English major
An internship of at least 15 weeks at an approved business, organization, or academic institution in which a student's on-the-job responsibilities pertain to editing, writing, or literary or documentary research. The student will serve as an apprentice under professional supervision; in addition to performing assigned tasks, students will learn through observation, regular discussion with the supervisor and a Mercer professor, and written reflection. The course may be repeated for a total maximum of nine hours. Students will be graded on the S/U basis. This course does not count towards a major or minor in English. (Every semester)

**ENVIRONMENTAL BIOLOGY (ENB)**
For a description of the courses offered in Environmental Biology, along with the requirements for the major in this discipline, see the heading BIOLOGY in this catalogue.

**ENVIRONMENTAL STUDIES (ENV)**
For a description of the courses offered in Environmental Studies, along with the requirements for the ENV major, see the heading INTERNATIONAL AND GLOBAL STUDIES in this catalog.

**EXPERIENTIAL LEARNING (EXP)**
Experiential learning promotes an understanding of academic material through active participation and reflection. These experiences substantially improve the learning of class material, build valuable skills, and have a positive impact on the student and the larger community. Fulfillment of the Experiential Learning Requirement must be approved and documented by a faculty or staff mentor, who will engage students in a reflection exercise that is appropriate to the discipline and nature of the experience. Upon successful completion of the experience (as defined by current guidelines adopted by the College) students will receive the appropriate EXP designation on their transcripts.

Students must fulfill the Experiential Learning Requirement in at least one of the following ways:
EXP 401. Supervised Undergraduate Research (0 hours)
Students will independently or in teams design and conduct a research project under the direction of appropriate faculty. This research should culminate in a final project that is appropriate for the discipline, as well as the nature and extent of the research. (Every Semester)

EXP 402. Creative Activity in the Arts (0 hours)
Students will participate in the creative process through the completion of a faculty approved public performance or exhibition in art, music, drama, or creative writing. (Every Semester)

EXP 403. Service-Learning (0 hours)
Students will complete a service experience connected to class material. Service-learning includes community service, community-based research, and advocacy experiences that reinforce course learning objectives. (Every Semester)

EXP 404. Study Away Experience (0 hours)
Students will encounter different cultures or subcultures as they engage in appropriate coursework. These international or domestic experiential learning opportunities can take the form of faculty-led study away programs (spring break and summer terms) or long-term study away programs (semester or academic year). All study away experiences must be approved through the Office of International Programs and have the support of an academic advisor. (Every Semester)

EXP 405. Mercer On Mission (0 hours)
Students will enroll in academic coursework and perform international service-learning projects at sites approved by the Mercer On Mission director. Students must be accepted in the program by the Mercer On Mission office. (Every Semester)

EXP 406. Competitive Academic Teams (0 hours)
Students will participate in a faculty approved competitive academic team requiring research, reasoning and argumentation. Examples include Mercer Debate Society, Model Arab League, and Binary Bears. (Every Semester)

EXP 407. Internship (0 hours)
Students will complete a faculty-approved internship, student teaching experience, or other equivalent opportunity working alongside professionals. (Every Semester)

EXP 490. Special Project (0 hours)
Students will independently or in teams design and implement a special project that possesses significant components of experiential learning not covered by EXP 401-407. Such projects might include, but are not limited to, ROTC activities, advanced student leadership (for instance, in The Cluster or Student Government Association) and volunteer work. Students and their faculty sponsor will work together to develop an appropriate project. Special projects require advance approval by the College of Liberal Arts Engaged Learning Committee. (Every Semester)
FOREIGN LANGUAGES AND LITERATURES (FLL)

Lydia Masanet, Chair/Associate Professor
John M. Dunaway, Achim Kopp, and Edward J. Weintraut, Professors
J. Fernando Palacios, Yosalida Rivero-Zaritzky, and Anna Weaver, Associate Professors
Orosman Lopez and Jose Pino, Assistant 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 may not repeat CHN, FRE, GER, GRK, LAT, or SPN 111 after successful completion of CHN, FRE, GER, GRK, LAT, or SPN 112. 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 313 or 314. 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 28 hours*, with a minimum of 14 hours 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 minimum cumulative grade point average of 3.0; (4) attain a 3.75 grade point average in language courses; (5) enroll in FRE, GER, LAT, SPN 490; (6) complete a special project in language, literature, methodology, or other approved area; (7) give a departmental honors presentation.

STUDY ABROAD

The Department of Foreign Languages and Literatures is affiliated with three study abroad programs. The prerequisite for each is either successful completion of 112 or consent of department faculty. In addition to these programs, study abroad opportunities are also available in Chinese, Classical Studies, Greek, and Latin.
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 AND ARGENTINA: Students study at the Center for Cross-Cultural Study in Seville and Alicante, Spain and in Córdoba, Argentina. 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 CHINA: Variable credit up to 9 hours.

FOREIGN LANGUAGE AND LITERATURE (FLL)

FLL 195. World Cultural Studies in English (3 hours)
A study of French, German, Hispanic, or Greco-Roman culture taught in English. Students will (1) examine the nature of the culture involved through analysis of and reflection on significant actions, ideas, and sources; (2) investigate how the culture under study helped shape the development of the West over centuries; and (3) be exposed to perspectives and forces that drive intercultural exchange. Does not count toward any foreign language major or minor. May be offered abroad. (Occasionally)

FLL 467. Foreign Language Teaching Methodology I: Reading and Writing (3 hours)
Prerequisites: admission to the teacher education program, EDU 256, and 357, and the equivalent of 251 in the appropriate language. Evaluation of the objectives and methods involved in teaching the skills of reading 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 any foreign language major or minor. (Occasionally)

FLL 470. Foreign Language Teaching Methodology II: Speaking and Listening (3 hours)
Prerequisites: admission to the teacher education program, EDU 256, and 357, and the equivalent of 251 in the appropriate language. Evaluation of the objectives and methods involved in teaching the skills of speaking 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 any foreign language major or minor. (Occasionally)

CHINESE (CHN)

CHN 111-112. Beginning Chinese (Mandarin) I and II (4 hours each)
Open to students with little or no previous instruction in Chinese, this course sequence enables students to attain a basic competency in the five language skills of listening, speaking, writing, reading, and culture. (Every year)

CHN 153S-253S-353S Chinese Studies Abroad (1-15 hours)
Prerequisites: CHN 111 for CHN 153S, CHN 112 for CHN 253S, CHN 252 for CHN 353S, or exemption from the listed prerequisite.

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Study abroad with emphasis on one or more of the following areas: Chinese language, literature, civilization, culture, and history. Under the direction of a faculty member and/or an on-site supervisor, students are required to engage in projects or assignments requiring at least three on-site hours per week for every hour of credit. (Occasionally)

**CHN 251-252. Intermediate Chinese (Mandarin) I and II**  
(3 hours each)  
Prerequisite: CHN 112 or exemption.  
This sequence is designed to help students enhance their proficiency in the four language skills of listening, speaking, writing, and reading as well as their insights into Chinese culture. As compared to the Beginning sequence, grammatical constructions are more complex and more sophisticated in style. More Chinese characters are introduced. By the end of the Intermediate sequence, students will be able to communicate in real-life situations, such as going shopping, eating out, and traveling. The courses prepare students to comprehend and produce paragraph-level Chinese. (Every year)

**FRENCH (FRE)**

**FRE 111-112. Beginning French I and II**  
(4 hours each)  
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: listening, speaking, writing, reading, and culture. (Every semester)

**FRE 153S-253S-353S French Studies Abroad**  
(1-15 hours)  
Prerequisites: FRE 111 for FRE 153S, FRE 112 for FRE 253S, FRE 252 for FRE 353S, or exemption from the listed prerequisite.  
Study abroad with emphasis on one or more of the following areas: French language, literature, civilization, culture, and history. Under the direction of a faculty member and/or an on-site supervisor, students are required to engage in projects or assignments requiring at least three on-site hours per week for every hour of credit. Nine hours may count toward the major or 6 toward the minor. (Occasionally)

**FRE 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 limited 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. (Every fall)

**FRE 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. (Every spring)

**FRE 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. (Every year)
FRE 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. (Every fall)

FRE 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. (Every spring)

FRE 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 may also address works of Rabelais, Montaigne, Corneille, Racine, Du Bellay, Molière, Mme. de Sévigné, Voltaire, Rousseau, and others. (Every two years)

FRE 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. (Every two years)

FRE 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. (Every two years)

FRE 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. (Occasionally)

FRE 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. (Occasionally)
FRE 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.). (Occasionally)

FRE 385. Special Topics in French (Subtitle) (1-3 hours)
Prerequisite: consent of instructor.
May be repeated for major or minor credit. (Occasionally)

FRE 425. Seminar (Subtitle) (3 hours)
Prerequisite: FRE 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. (Occasionally)

FRE 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. (Occasionally)

FRE 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. (Occasionally)

FRE 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 language, literature, or culture. May be repeated for major or minor credit. (Occasionally)

GERMAN (GER)

GER 111-112. Beginning German I and II (4 hours each)
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. (Every year)

GER 153S-253S-353S German Studies Abroad (1-15 hours)
Prerequisites: GER 111 for GER 153S, GER 112 for GER 253S, GER 252 for GER 353S, or exemption from the listed prerequisite.
Study abroad with emphasis on one or more of the following areas: German language, literature, civilization, culture, and history. Under the direction of a faculty member and/or an on-site supervisor, students are required to engage in projects or assignments requiring at least three on-site hours per week for every hour of credit. Nine hours may count toward the major or 6 toward the minor. (Occasionally)

**GER 251-252. Intermediate German I and II** (3 hours each)
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. (Every year)

**GER 285. Intermediate Conversational 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. (Occasionally)

**GER 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 speaker, asserting one's opinion, paraphrasing) and in writing (e.g., requesting information, applying for positions, refusing or accepting invitations). (Every year)

**GER 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). (Every three years)

**GER 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, Gottfried Ephraim Lessing, Johann Michael Lenz, Johann Wolfgang von Goethe, Friedrich von Schiller, Friedrich Hölderlin, and Immanuel Kant. (Occasionally)

**GER 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. (Every two years)
GER 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. (Every two years)

GER 385. Special Topics in German (Subtitle) (1-3 hours)
Prerequisite: consent of the instructor.
May be repeated for major or minor credit. (Occasionally)

GER 411. Advanced Stylistics (2 hours)
Prerequisites: 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. (Occasionally)

GER 425. Seminar (Subtitle) (3 hours)
Prerequisites: 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. (Occasionally)

GER 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. (Occasionally)

GER 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. (Occasionally)

GER 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 language, literature, culture, or society. May be repeated for major or minor credit. (Occasionally)

GREEK (GRK)
GRK 111-112. Beginning Greek I and II (3 hours each)
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. (Every year)
GRK 153S-253S-353S Greek Studies Abroad (1-15 hours)
Prerequisites: GRK 111 for GRK 153S, GRK 112 for GER 253S, GRK 251 for GER 353S, or exemption from the listed prerequisite.
Study abroad with emphasis on one or more of the following areas: Greek language, literature, civilization, culture, history, and archaeology. Under the direction of a faculty member and/or an on-site supervisor, students are required to engage in projects or assignments requiring at least three on-site hours per week for every hour of credit. (Occasionally)

GRK 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. (Every year)

GRK 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 from Homer, the Septuagint, the New Testament, Josephus, Philo, or Pausanias. May be repeated. (Every year)

ITALIAN (ITA)
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. (Every two years)

LATIN (LAT)
LAT 111, 112, and 251 or consent of instructor are prerequisites for all 300-level courses.

LAT 111-112. Beginning Latin I and II (3 hours each)
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. (Every year)

LAT 153S-253S-353S Latin Studies Abroad (1-15 hours)
Prerequisites: LAT 111 for LAT 153S, LAT 112 for LAT 253S, LAT 251 for LAT 353S, or exemption from the listed prerequisite.
Study abroad with emphasis on one or more of the following areas: Latin language, Roman literature, civilization, culture, history, and archaeology. Under the direction of a faculty member and/or an on-site supervisor, students are required to engage in projects or assignments requiring at least three on-site hours per week for every hour of credit. Nine hours may count toward the major or 6 toward the minor. (Occasionally)
LAT 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. (Every year)

LAT 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. (Every three years)

LAT 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. (Every three years)

LAT 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. (Every three years)

LAT 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. (Every three years)

LAT 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. (Every three years)

LAT 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. (Every three years)

LAT 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. (Every three years)
LAT 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. (Every three years)

LAT 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. (Occasionally)

LAT 490. Supervised Independent Study (1-3 hours)
Prerequisite: consent of the instructor.
An in-depth study of a particular author, work, or issue in Latin language, Roman literature or Roman culture. May be repeated for major or minor credit. (Occasionally)

SPANISH (SPN)

SPN 111-112. Beginning Spanish I and II (4 hours each)
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. (Every semester)

SPN 153S-253S-353S Spanish Studies Abroad (1-15 hours)
Prerequisites: SPN 111 for SPN 153S, SPN 112 for SPN 253S, SPN 252 for SPN 353S, or exemption from the listed prerequisite.
Study abroad with emphasis on one or more of the following areas: Spanish language, literature, civilization, culture, and history. Under the direction of a faculty member and/or an on-site supervisor, students are required to engage in projects or assignments requiring at least three on-site hours per week for every hour of credit. Nine hours may count toward the major or 6 toward the minor. (Occasionally)

SPN 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. (Every semester)

SPN 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. (Every semester)
SPN 285. Intermediate Conversational 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. One credit-hour per semester, not to exceed four credit-hours; does not count toward major or minor; non-optional “Satisfactory-Unsatisfactory” grading. (Every year)

SPN 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. This course is normally restricted to students studying Spanish as a second language. (Every fall)

SPN 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. (Every spring)

SPN 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. (Every two years)

SPN 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. (Every two years)

SPN 306. Spanish American Literature I (3 hours)
Prerequisite: SPN 302.
A study of representative works in prose and poetry from the colonial period through postmodernism. 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. (Every two years)
SPN 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. (Every two years)

SPN 313. Culture and Civilization of Spain  
(3 hours)  
Prerequisite: SPN 302.
This course is designed to engage and prepare students in a cultural, historical and geographical exploration of Spain while continuing the enhancement and refinement of the four language skills (listening, reading, writing, and speaking). Classroom discussions will be supplemented by films and readings from newspapers, magazines and selected literary works which highlight the political, historical and social situation of Spain today. (Every two years)

SPN 314. Culture and Civilization of Latin America  
(3 hours)  
Prerequisite: SPN 302.
This course is designed to engage and prepare students in a cultural, historical and geographical exploration of Latin America while continuing the enhancement and refinement of the four language skills (listening, reading, writing, and speaking). Classroom discussions will be supplemented by films and readings from newspapers, magazines and selected literary works which highlight the political, historical and social situation of Latin America today. (Every two years)

SPN 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 individual and society, and social classes in Spain. The course also seeks to develop proficiency in basic literary analysis and criticism. (Every two years)

SPN 325. Business Spanish  
(3 hours)  
Prerequisite: SPN 252.
An introduction to the communicative skills of business language: speaking, listening comprehension, reading, writing, and cross-cultural awareness. Emphasis is placed on developing proficiency in realistic contextualized situations encountered in the Hispanic business community. (Every two years)

SPN 326. Spanish for Medical Purposes  
(3 hours)  
Prerequisite: SPN 252.
This course is intended for students with a background in Spanish who are pursuing a career in medicine or health-related fields. It is designed to increase the development and application of Spanish conversational skills in real world scenarios through the acquisition of medical terminology, contextualized dialogues, debates, and authentic readings from the medical field. Special attention is given to the awareness and understanding of cultural and social differences that may affect medical care and the practitioner-patient relationship with Spanish speaking people. (Every two years)
SPN 385. Special Topics in Spanish (Subtitle) (1-3 hours)
Prerequisite: consent of instructor.
May be repeated for major or minor credit. (Occasionally)

SPN 417. The Golden Age of Spanish Literature (3 hours)
Prerequisites: 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. (Occasionally)

SPN 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. (Occasionally)

SPN 480. Internship (Variable credit; up to 16 hours)
Prerequisite: departmental approval.
A supervised program of field experience in which students make practical application 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. (Occasionally)

SPN 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 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. (Occasionally)

SPN 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 language, literature, or culture. May be counted toward Spanish major. May be repeated. (Occasionally)

CLASSICAL STUDIES (CLA)

Achim Kopp, Director/Professor

The Classical Studies major offers students an interdisciplinary approach to the classics. Successful completion of the CLA major fulfills the College’s Additional Depth of Understanding and leads to a B.A. degree. The program combines a linguistic focus (on Latin) with extensive training in a variety of disciplines pertaining to Greek and Roman antiquity. Students will be able to choose from courses in ancient art, classical literature, ancient history, ancient philosophy, and related fields. This major helps prepare students for graduate study of classics, ancient history, archaeology, and museum studies.

The major consists of a minor in Latin (18 hours) plus another 18 hours to 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; and (d) PHI 311 and 360 (when the topic is a classical philosopher). One addi-
tional course must be taken from ANT 354, CLA 153S-253S (if three credits or more), GRK 111 or 112, or another course from (a)-(d) above. The major includes a total of 39 hours, 21 in upper-division courses. A portfolio of three sample papers from three different disciplines from courses taken for the major must be submitted at the completion of the program.

Classical literature courses have no language prerequisites. These courses are recommended as electives or to fulfill the requirements of the Classical Studies major. CLA 101 or 102 may be used to fulfill the Western Heritage Literacy Block of General Education.

**CLA 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, Aeschylus, Sophocles, Euripides, Catullus, Horace, Vergil, Propertius, and Ovid. In reading, discussing, and writing about these texts students engage some of the most fundamental questions of human existence and consider how these works shaped Western Society. In addition to close literary interpretations and discussions, the course offers an introduction to classical mythology as well as ancient history and culture, all areas of study important for the development of the West. (Every two years)

**CLA 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). In reading, discussing, and writing about these texts students engage some of the most fundamental questions of human existence and consider how these works shaped Western society. By studying Greek and Roman comedy and satire students begin to understand the many ways in which their own cultural background on the one hand is shaped by Greco-Roman culture and, on the other hand, informs their understanding of foreign (in this case, classical) culture. (Every two years)

**CLA 153S-253S. Classical Studies Abroad** (Variable credit; up to 12 hours)
Prerequisites: none for CLA 153S, consent of the instructor for CLA 253S.
Study abroad with emphasis on one or more of the following areas: Roman and Ancient Greek literature, history, archaeology, art, architecture, language, philosophy, religion, everyday life, and other areas of classical culture. May be taken more than once. (Occasionally)

**CLA 198. Special Introductory Topics in Classical Studies (Subtitle)** (3 hours)
Study of an introductory topic in Classical Studies not covered in any of the departmental offerings. This course may be applied to the Classical Studies major. (Occasionally)

**WORLD LITERATURE IN TRANSLATION (WLT)**

**WLT 101. Special Topics in World Literature (Subtitle)** (3 hours)
Selection of texts of world literature in English translation organized by theme, period, author, etc. No language prerequisite. This course is recommended for general education
credit or as an elective. It does not count toward the FRE, GER, LAT, or SPN major or minor. May be repeated if course subtitle is different. (Every two years)

**FILM STUDIES**

For a description of this program and the requirements for the minor in FILM STUDIES, see heading immediately following the JOURNALISM AND MEDIA STUDIES section of this catalog.

**GEOGRAPHY (GEO)**

For a description of the courses offered in Geography, see the heading, SOCIOLOGY in this catalog.

**GLOBAL HEALTH STUDIES (GHS)**

For a description of the courses offered in Global Health Studies, along with the requirements for the GHS major, see the heading INTERNATIONAL AND GLOBAL STUDIES in this catalog.

**GREAT BOOKS PROGRAM (GBK)**

Achim Kopp, *Director/Professor of Foreign Languages*

The Great Books curriculum is one of two general education programs in the College of Liberal Arts. The eight courses emphasize thoughtful inquiry, are discussion-based, and are reading and writing intensive. Through the engagement of primary literary, political, religious, philosophical, and scientific texts in the Western tradition, students can enhance their skills in disciplined thinking and writing, deepen their moral and ethical reflectiveness, and develop their understanding of how the seminal ideas of the past have formed our present world and selves. The Great Books thus provide both a ground and a goal for the specialized disciplines in which students major. The faculty of the College believe that careful study of the primary texts of Western thought and belief in small study groups guided by committed and rigorous instructors from varying academic disciplines is a valid means to a good general education.

Students choosing the Great Books Program for their general education requirements must take seven courses: GBK 101, 202, 203, 304, 305, 306, and 407. 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 satisfies the INT 101 requirement. 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, if space is available.

Engineering students may use courses from the Great Books Program to satisfy general education requirements and should coordinate specific course choices with their engineering advisor and the Director of Great Books.

Inquiries about the Great Books Program should be addressed to the Director of Great Books.
GBK 101 is a prerequisite for all other GBK courses.

GBK 101. Understanding Self and Others: Among Gods and Heroes (4 hours)
Through a shared first-year experience, students will examine representations of and reflections on the self in order to develop as individuals in relationship to others. As the introductory course in the Great Books Program, selfhood will be explored through the prism of foundational works of the ancient Greeks including works by Homer, Aeschylus, Sophocles, Thucydides, and Plato. Writing instruction and written work for this course will further develop students’ understanding of writing as a means of discovering and expressing ideas across domains of knowledge. As a Writing Instruction course, substantial attention, in terms of both instruction and course work, will be given towards developing the practical skill of writing as specified in the Writing Instruction section of the catalog. GBK 101 fulfills the requirement of INT 101 for students in the Great Books Program. (Every Year, fall semester)

GBK 202. Classical Cultures (4 hours)
Prerequisite: a grade of C or better in GBK 101.
Through readings from such authors as Plato, Euclid, Aristotle, and Virgil students will reflect upon and discuss some of the most seminal ideas of western culture and examine ways in which Greco-Roman thought has shaped the western world. Writing instruction and written work for this course will further develop students’ understanding of writing as a means of discovering and expressing ideas across domains of knowledge. As a Writing Instruction course, substantial attention, in terms of both instruction and course work, will be given towards developing the practical skill of writing as specified in the Writing Instruction section of the catalog. GBK 202 fulfills the WRT 120 requirement for students in the Great Books Program. (Every year, spring semester)

GBK 203. The Hebrew and Christian Traditions (4 hours)
Prerequisite: a grade of C or better in GBK 202.
Readings in several books of the Old and New Testaments as well as selections from Augustine and Aquinas. Writing instruction and written work for this course will further develop students’ understanding of writing as a means of discovering and expressing ideas across domains of knowledge. As a Writing Instruction course, substantial attention, in terms of both instruction and course work, will be given towards developing the practical skill of writing as specified in the Writing Instruction section of the catalog. GBK 203 meets the requirement for the third writing instruction course for students in the Great Books Program. (Every semester)

GBK 304. Order and Ingenuity (3 hours)
Prerequisite: GBK 202 or 203, or approval of the program director.
Readings from such authors as Dante, Chaucer, Machiavelli, Cervantes, Galileo, and Montaigne. (Every semester)

GBK 305. The Modern Worldview (3 hours)
Prerequisite: GBK 202 or 203, or approval of the program director.
Readings from such authors as Shakespeare, Bacon, Descartes, Pascal, Hobbes, Newton, Locke, Hume, and Milton. (Every semester)

GBK 306. Reason and Revolution (3 hours)
Prerequisite: GBK 202 or 203, or approval of the program director.
Readings from such authors as Rousseau, Goethe, Smith, Jefferson, Madison, Hamilton, Wollstonecraft, Kant, Tocqueville, Marx, Engels, Emerson, and Darwin. (Every semester)
GBK 407. The Age of Ambivalence (3 hours)
Prerequisites: GBK 202, 203, and either GBK 304 or 305 or 306, or approval of the program director.
Readings from such authors as Dostoevsky, Yeats, Mendel, Freud, Weber, and Nietzsche. (Every semester)

GBK 495. Special Topics (3 hours)
Prerequisites: GBK 101 and at least junior status or approval of the program director.
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 “Writings of Jane Austen,” “Histories,” “Goethe: Poet and Scientist,” and “Faulkner and the South.” (Every semester)

HISTORY (HIS)
Eric C. Klingelhofer, Chair/Professor
Jamie H. Cockfield, Wallace L. Daniel, Sarah E. Gardner, and John Thomas Scott, Professors
Robert Good, Associate Professor

The History Department develops in students an appreciation of the past both for the perspective 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. The history major provides an appropriate background for graduate and professional school and many kinds of non-academic employment.

Majors are required to complete successfully 33 or more semester hours. Two introductory courses are required: HIS 110 to establish literacy in the history of Western Civilization, and 160 or 165 to establish literacy in American history. Majors are strongly recommended to take HIS 115 when enrolled in HIS 110. The relevant introductory courses should be taken as preparation for upper-division courses. Also required are HIS 210 (The Twentieth Century World, designed for freshmen or sophomores), HIS 295 (The Historian’s Craft, designed for sophomores), and HIS 395 (Studies in Historiography, designed for juniors). As seniors, majors must complete HIS 495 (Research Seminar in History). Of the five remaining courses, at least one must be taken from each of the first two following categories, and at least two must be taken from the third.

1) Pre-Modern Europe and Global (HIS 301, 302, 310, 315, 320, 321, 324, and 381)
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 eight 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 requirements, 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 in both written and oral historical argumentation.

A minor in history consists of 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, or include HIS 395. 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 history courses and 3.5 overall.
Secondary Teacher Certification Program in History

Teacher certification in history (6-12) is available to history majors. Students planning to teach history in secondary school should notify their advisor and contact the secondary education advisor in Tift College of Education. Required courses in education include EDUC 210, 220, 256, 283, 357, 398, 399, 406, 430, 469, 476, 485, and 492. Please consult the TIFT COLLEGE OF EDUCATION section of this catalog for more details.

HIS 110. Essentials of Western Civilization (3 hours)
A study of Western Civilization's development during the ancient, medieval, and modern eras. Connections between religion, politics, and culture are stressed, as is the growth since the 1700s of citizens' rights and consumerism. (Every Semester)

HIS 115. Western Civilization: Enrichment (1 hour)
A problem-based study of how historians have defined and interpreted the West's development, distinctiveness, and global significance. Majors are strongly encouraged to take HIS 115 when enrolled in HIS 110. (Every semester)

HIS 120. Introductory Topics in History (Subtitle) (1-3 hours)
A rotating-topic module course designed for majors and non-majors alike. European, American, and global topics will be offered. Domestic or foreign travel may be required. Students may take different topics of the course twice and earn up to four hours (total) for credit towards graduation. Students are required to engage in projects or assignments requiring at least one contact hour per week every hour of credit. (Occasionally)

HIS 145. American Film as Art and History (3 hours)
A study of films oriented around a common historical theme. This course will emphasize the study of films for their place in the history of the time, and for their reflection of and influence on American culture from their time of crafting through the late 20th century. (Every Year)

HIS 160. Biblical Texts and American History (3 hours)
A study of the interplay between the Abrahamic texts and the development of American culture. Textual examinations will reflect upon their original setting and their American application. (Every Year)

HIS 165. American Transformations of its European Heritage (3 hours)
A topical examination of America's transformations of the major elements of its European heritage from the sixteenth to the twentieth centuries. The course focuses on a single area of heritage and transformation on a rotating basis. Specific topics include civic rights, public health, religion, justice, war and diplomacy, laws and constitutions, and race and ethnicity. May only be taken once for credit towards graduation. (Every semester)

HIS 210: The Twentieth Century World (3 hours)
Prerequisites: none. HIS 110 is recommended.
A history of world affairs from about 1900 through 2001, stressing the decline of the West's technical and geopolitical dominance and various global reactions to the spread of the West's liberal consumerism. (Every year)

HIS 295. The Historian's Craft (3 hours)
Prerequisites: HIS 110 or either HIS 160 or 165, and sophomore standing.
An introduction to the basic vocabulary, source materials, research and writing methods, and historiographical issues in the discipline of history, with an emphasis on analytical and writing skills. The course is required for majors, who are strongly urged to enroll as sophomores. (Every semester)
HIS 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. (Every two years)

HIS 302. Ancient History: Rome (3 hours)
A study of the rise of Rome in the Italian peninsula, Roman hegemony over the ancient world, and the empire's final dissolution. (Every two years)

HIS 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 the chivalric tradition; and the late medieval impact of technology, commerce, and the nation-state. (Every two years)

HIS 315. Early Modern Europe (3 hours)
A comparative study of the intellectual, religious, political, and social changes in Europe from the fourteenth to the eighteenth centuries. Topics include the development of Renaissance thought, conflicts over religion and devotion during the Reformation, the growth of the monarchical state and conflicts between absolutism and constitutionalism, the birth of Europe's colonial empires, and the rise of rationalism. (Every two years)

HIS 317. Europe in the Nineteenth Century (3 hours)
A general history of Western and Central Europe in the century after the Congress of Vienna, emphasizing the politics and diplomacy of the major European states. (Every two years)

HIS 318. Twentieth Century Europe (3 hours)
A general history of continental Europe in the twentieth century, emphasizing totalitarianism's threats to liberal institutions and ideals and its awkward place in various national memories. Also addressed are Europeans' loss of global empires and the growth of the European Union. (Every two years)

HIS 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. (Every two years)

HIS 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, Britain's constitutional conflicts, the quest for a colonial empire, and the origins of the Industrial Revolution. (Every two years)

HIS 322. Modern Britain (3 hours)
A comparative study of the peoples of the British Isles since the eighteenth century with emphases on the Industrial Revolution and the expansion and subsequent collapse of Britain's empire. (Every two years)

HIS 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 memoirs are used to examine the effects of European rule on African cultures. (Every two years)

HIS 325. Revolution and Its Legacy in France (3 hours)
A detailed study of the French Revolution, followed by a broader study of how the revolution's liberal, egalitarian, secular, and assimilationist ideals have defined and often polarized public life in France since 1789. (Every two years)
HIS 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. (Every two years)

HIS 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. (Every two years)

HIS 330. The First and Second World Wars (3 hours)
An examination of the technologies, military campaigns, war aims of the belligerents, and development of strategy and tactics during and between the world wars of the twentieth century. (Every year)

HIS 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. (Occasionally)

HIS 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 abroad 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. (Occasionally)

HIS 340. Critical Themes in Western Civilization (3 hours)
A team-taught course addressing crucial themes that transcend conventionally defined fields of Western history, typically by pertaining to two or more continents. (Occasionally)

HIS 352. Colonial and Revolutionary America (3 hours)
The development of a noticeably American society from its European, African, and Indian roots. Topics include cultural interaction, early Chesapeake and New England settlements, mercantilism, the Great Awakening, and the causes of revolution. (Every two years)

HIS 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. (Every two years)

HIS 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. Topics include Indian culture and society, changes in Euro-Indian relationships over time, and the impact of the frontier on European-American history. (Every two years)

HIS 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. (Every two years)
HIS 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. (Every two years)

HIS 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. (Every two years)

HIS 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. (Every two years)

HIS 365. History of Georgia (3 hours)  
A political, economic, social, and cultural survey of Georgia from its founding to the present. (Every summer)

HIS 370. An 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. (Every two years)

HIS 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 through major secondary works and selected primary documents in the field. Students 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. (Every two years)

HIS 381. Colonial Spanish America (3 hours)  
Prerequisites: none.  
A study of colonial Spanish America from Columbus' voyages to the independence movements of the early 19th century. Coursework will examine both the factors which contributed to the rise and fall of Spanish colonial America as well as important cultural and societal expressions of Spanish colonial America such as government, religion, and the arts. (Every two years)

HIS 395. Studies in Historiography (3 hours)  
Prerequisites: HIS 110, 160 or 165, and 295 for history majors; two 100-level history courses for history minors; instructor permission for all others.  
A comparative study of classic and contemporary works of history, emphasizing the different priorities, assumptions, and approaches of Western historians from antiquity to the present. (Every year)

HIS 401. Internship in Public History (1-3 hours)  
Prerequisites: HIS 145, 160, or 165 plus HIS 295, third or fourth year standing.  
A research-oriented internship on a topic of local or regional historical interest undertaken in conjunction with a community partner organization, culminating in a project appropriate...
to the topic addressed and/or the needs of the cooperating community partner organization. Hours earned in HIS 401 do not count towards the minimum credit requirements for the 33-hour major or the 15-hour minor. Students, under the direction of a faculty member and an on-site supervisor, are required to engage in projects or assignments requiring at least three on-site hours per week for every hour of credit. May be repeated for up to 9 credit hours towards graduation. Graded S/U. (Occasionally)

**HIS 481. Seminar on Selected Topics in American History** (3 hours)
A seminar involving reading, discussion, and independent research on a specific topic in American history. (Occasionally)

**HIS 491. Seminar on Selected Topics of European History** (3 hours)
A seminar involving reading, discussion, and independent research on a specific topic in European history. (Occasionally)

**HIS 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. (Every fall)

**HIS 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. (Occasionally)

**HONORS PROGRAM (HON)**

For a description of the current University Honors Program requirements and courses offered in that program, see the UNIVERSITY HONORS PROGRAM section later in this catalog.

**INFORMATION SCIENCE AND TECHNOLOGY (IST)**

For a description of the courses offered in information science and technology, along with the requirements for a major or minor in this discipline, see the heading COMPUTER SCIENCE in this catalog.

**INTEGRATIVE STUDIES (INT)**

Bridget G. Trogden, Director of INT 101/Associate Professor of Chemistry
Mary Ann Drake, Director of INT 201/Professor of Cultural Studies
Eimad Houry, Director of INT 301/Professor of Political Science

Integrative Studies is a three-course sequence of integrative, interdisciplinary courses, developmentally structured to span the first three years of study. These courses are designed to integrate the practical skills of writing, critical thinking, communication, and quantitative, qualitative, and critical analysis with content knowledge and perspectives attained through both disciplinary and interdisciplinary courses. Such integration allows for and encourages practical approaches to topical societal issues. Students will also gain an
appreciation for the value of life-long education in both self-discovery and the appreciation of others. Students in these courses will engage in the critical evaluation of materials and perspectives representing the varied approaches of the four different domains (natural sciences, social sciences, the humanities, and the arts). Integrative courses will have a general topical focus, which may be fulfilled through the investigation of a relevant societal issue. Entering students must enroll in INT 101 or GBK 101 during their first semester of study. Transfer students with more than 30 hours of college credit and evidence of equivalent course work at another University may have this requirement waived by the CLA Dean’s Office. Students are eligible to enroll in INT 201 after having obtained 24 hours of college credit and having successfully completed (with a grade of C or better) both INT 101 and WRT 120, or equivalent. Students must attempt INT 201 prior to obtaining 65 hours of college credit. INT 301 may be taken after a student has completed 50 hours of college credit and has successfully completed INT 201. A student may repeat an Integrative Studies course only in order to remove a failing grade in that course. INT courses are not eligible for the S/U option.

**INT 101. Understanding Self and Others** (4 hours)
Through a shared first-year experience, students will examine representations of and reflections on the self in order to develop as individuals in relationship to others. Subject matter will confront students’ conceptions of selfhood, their relationships with others, the moral and ethical values that guide them, and the influences that shape the formation of identities. Course content and assignments will be reflective of how the self and its relation to others has been imagined and defined by writers, thinkers, artists, and scholars representing the four domains of natural science, social science, humanities, and the arts. As a Writing Instruction course, substantial attention, in terms of both instruction and course work, will be given towards developing the practical skill of writing as specified in the Writing Instruction section of the catalog. (Every Year)

**GBK 101. Understanding Self and Others: Among Gods and Heroes** (4 hours)
See the full description of this course in the Great Books Program section of this catalog. Successful completion of GBK 101 may serve as a substitution for INT 101 in completing the Integrative Track of the CLA Foundational Studies Program.

**INT 201. Building Community** (4 hours)
Prerequisite: a grade of C or better in WRT 120.
Students will study issues and problems in creating and preserving public good in communities and nations. Students will explore the use of civil, effective communication to address complex and contentious issues. Course content and assignments will reflect an examination of the relationship between citizenship and inclusive human communities by examining the works of writers, thinkers, artists and scholars representing the four domains of natural science, social science, humanities, and the arts. As a Writing Instruction course, substantial attention, in terms of both instruction and course work, will be given towards developing the practical skill of writing as specified in the Writing Instruction section of the catalog. (Every Semester)

**INT 301. Engaging the World** (3 hours)
Prerequisite: INT 201.
Through an exploration of global issues, students will examine the interconnectedness of a global society, while learning to respect the diversity of international voices on contemporary issues. The role and impact of global citizenry will be examined through the works of writers, thinkers, artists, and scholars representing the four domains of natural science, social science, humanities, and the arts. Substantial attention will be given to the practical
skills of written, verbal and visual communications. Individual sections may be subtitled to reflect a particular perspective. (Every Semester) *Not offered until 2014-15 academic year.

INTERNATIONAL AFFAIRS (IAF)

For a description of the courses offered in International Affairs, along with the requirements for the IAF major, see the heading INTERNATIONAL AND GLOBAL STUDIES in this catalog.

INTERNATIONAL AND GLOBAL STUDIES (IGS)

Eimad Houry, Chair/Professor
Thomas Glennon, Professor
Brian Rood, Associate Professor
Bria Dunham and Chinekwu Obidoa, Assistant Professors

The International and Global Studies (IGS) department offers a rigorous curriculum that provides students with a broad survey of the most important dynamics of global issues and concerns. Courses are organized into five thematic tracks but with common experiences that foster the creation of learning and a collaborative community that applies an interdisciplinary approach to problem solving. The tracks are:

• Major and Minor in Environmental Studies (ENV)
• Major and Minor in Global Health Studies (GHS)
• Major and Minor In International Affairs (IAF)
• Minor in Social Entrepreneurship (SEP)
• Minor in Asian Studies

All programs combine academic and practical experiences to produce capable and engaged graduates. The common goals of these distinctly interdisciplinary and integrative curricula are:

1. To prepare students to work for the different types of international organizations involved in global issues, such as corporations, non-profits and government agencies;
2. To prepare and encourage students to apply to, and gain admission into, some of the most selective graduate study programs;
3. To encourage students to take a more active and engaged approach in understanding the implications of international events and conditions;
4. To encourage students to develop original and creative initiatives that are intended to raise the standard of living both at home and abroad;
5. To expose students to the growing complexities of global relations and the processes that guide them.

Experiential Learning:

Experiential learning is a pedagogical emphasis of all the programs. IGS students fulfill experiential learning requirements through an exciting combination of offerings that include internships, study/travel abroad, and field research. Experiential learning in the form of study abroad or internships fosters cultural sensitivity and appreciation for global diversity.
Research and Innovation:

IGS students work together on complex issues that demand a comprehensive approach that considers the varied dimensions of global, domestic and intermestic challenges. Projects will require extensive research and must be original to the discipline. These projects are administered by the faculty and can generate a range of products, from the traditional research thesis that can be presented at professional academic conferences, to practical and creative initiatives intended to deal with a specific set of challenges.

The combination of internships, study abroad, service and engaged learning, critical evaluation and applied work will equip IGS students with the knowledge and skills required to become caring, and committed leaders in a globally interconnected society.

I. Common IGS CORE courses required: these serve as gateway courses to the three thematic majors (ENV, GHS and IAF) in the department, organized by Global Systems: (27 hours)

1. Cultural systems: ANT 101 or GEO 111 and one Foreign Language at 251 level (6 hours)
2. Environment and Health systems: ENV 250 and GHS 200 (6 hours)
3. Economic systems: SEP 200 or ECN 150/151 (3 Hours)
4. Political systems: IAF 253 or POL 270 (3 hours)
5. Data analysis: STA 126 (3 hours)
6. IGS Senior Experience: IGS 401 and IGS 402 (6 hours)
7. Experiential Requirement: Traditional term long study-abroad, or one Mercer on Mission trip with IGS (ENV, GHS, IAF and/or SEP) eligible courses approved by the IGS department Chair; or one faculty-led study abroad experience pre-approved by the IGS chair.

II. Additional courses required for IGS Majors: All requirements below are in addition to the CORE listed above: Each course can only be used to satisfy the requirements of one program.

A. ENVIRONMENTAL STUDIES MAJOR- ENV (18 hours)

Environmental Studies Majors must select 6 courses from the following: ECN 452, ENB 150, ENV 330, 340, 350, GHS 320, 340, IGS 198, 280, 380, POL 345, or SOC 325 (SOC 101 pre-requisite waived by Chair)

B. GLOBAL HEALTH STUDIES MAJOR- GHS (18 hours)

Global Health Studies Majors must complete: GHS 320, 330 and 350 plus three courses from the following: GHS 300, 310, 340, 360, IGS 198, 280, or 380

C. INTERNATIONAL AFFAIRS MAJOR- IAF (27 hours- includes CLA Additional Depth Requirement):

1. REQUIRED CORE (in addition to the ones noted above under IGS Core): (6 hrs) GEO 111 and CHN, FRE, GER, or SPN 252. Any IAF student wishing to study a foreign language not currently offered at Mercer should consult the director of the program for available options.
2. **International Affairs Areas:** Seven courses selected from four areas. A course (or course with a specific subtitle) may not be used to fulfill the block requirement of multiple blocks.

   A. **Regional Studies: (2 courses from 2 different disciplines)**
      ART 368, HIS 210, HIS 318, 322, 324, IGS 198, 280, 380, POL 310, 312, 313, or 392.

   B. **Economic Relations and Development: (2 courses from 2 different disciplines)**
      ECN 301, ECN 441, GHS 300, 350, IGS 198, 280, 380, POL 345, 356, or 392.

   C. **International Peace and Security: (One course- 3 hours)**
      IGS 198, 298, 398, POL 353, 354, 355, or 392

   D. **Cultural, Religious and Social Affairs: (2 courses from 2 different disciplines)**
      CHR 356, 357 (pre-requisite CHR 105 or CHR 150), IGS 198, 280, 380, SOC 321, 340 (SOC 101 prerequisite waived), POL 392, or WGS 314.

III. **MINORS:**

   A. **Requirements for a MINOR in Asian Studies (23 credit hours)**
      1. CHN 111 and 112
      2. Five additional courses from the following; ANT 250, ART 368, CHN 251, 252, 253S, 353S, CHR 356, ENV 340, GEO 313, PHI 247, or PHY 108. An approved Asian study abroad experience can be used to fulfill 3 hours of the Asian Studies minor. At least six hours of the minor must be at the 300 level. Students are encouraged to take advantage of Mercer's Chinese Language and Culture Study Abroad Program at Nanjing University. EXEMPTION from Mandarin Chinese Language Requirement: Students who can demonstrate fluency in Mandarin Chinese (written and spoken), or other recognized Asian or South Asian languages, can waive all or part of this requirement. In lieu of Chinese language courses, exempted students must still take a total of seven (7) courses in the minor.

   B. **Requirements for a MINOR in Environmental Studies (ENV) (19 credit hours)**
      1. ENB 150, and ENV 250.
      2. Four additional courses chosen from the ENV eligible courses list above. A minimum of two courses must be at the 300 level.

   C. **Requirements for a MINOR in Global Health (GHS) (18 credit hours)**
      1. GHS 200
      2. Five additional courses selected from the GHS eligible courses list above. A minimum of two courses must be at the 300 level or above.

   D. **Requirements for a MINOR in International Affairs (IAF) (18 credit hours)**
      1. IAF 253 and GEO 111
      2. Four additional courses, one from each of the four IAF Areas listed above. A minimum of two of these courses must be at the 300 level.
3. Successful participation in one of the following: Model United Nations, or Model League of Arab States, or a global awareness project on campus approved by the IAF director.

E. Requirements for a MINOR in Social Entrepreneurship (SEP) 6 courses

1. SEP 200, IGS 401 and IGS 402
2. SEP 215 or 302
3. SEP 390 or 391
4. And one additional course from ANT 350; ECN 432; ECN 441; FIN 301; IGS 198, 298, or 398; or POL 314 or 356

IGS 180. Special Introductory Topics in Global Studies: (3 hours)

(Subtitle)
Prerequisite: Permission of Department Chair.
Study of an introductory topic not normally offered through regularly scheduled courses. Topics will be announced in advance. The department chair must approve the use of this course to satisfy major and minor requirements in the IGS department. Course cannot be used more than once in a single IGS major or minor. (Occasionally)

IGS 198. Special Introductory Topics in International and Global Studies (3 hours)

Study of an introductory topic in International and Global Studies not covered in any of the departmental offerings. This course may be applied to the International and Global Studies majors or minors. (Occasionally)

IGS 280. Special Intermediate Topics in Global Studies: (3 hours)

(Subtitle)
Prerequisite: Permission of Department Chair.
Study of an intermediate level topic not normally offered through regularly scheduled courses. Topics will be announced in advance. The department chair must approve the use of this course to satisfy major and minor requirements in the IGS department. (Occasionally)

IGS 380. Special Advanced Topics in Global Studies: (Subtitle) (3 hours)

Prerequisite: Permission of Department Chair.
Study of an advanced level topic not normally offered through regularly scheduled courses. Topics will be announced in advance. The department chair must approve the use of this course to satisfy major and minor requirements in the IGS department. (Occasionally)

IGS 390. Colloquium (variable credits, 1-3 hours)

Prerequisite: instructor's permission.
Small-group seminars that address current problems, each focusing on one specific question and producing a joint task force report. Restricted to majors/minors in programs housed in the IGS department. (Occasionally)

IGS 398. Internship in International and Global Studies (1-3 hours)

Prerequisites: junior or senior status.
An intensive practicum experience at an approved business, organization, or academic institution. Senior-level students, under the direction of a faculty member and an on-site supervisor, are required to engage in projects or assignments requiring at least three on-site hours per week for every hour of credit. Students will learn through observation, regular discussions with the on-site supervisor and Mercer faculty member, and written reflection. In addition, students may be required to attend training events, workshops or weekly seminars. This course may be repeated for a total of 9 hours and does not count towards a major or minor in International and Global Studies. Graded S/U. (Every year)
IGS 401. Senior Design (3 hours)
Prerequisite: senior standing and instructor's permission
The first in a two part course sequence that equips students with the oral, written and research techniques required to carry out an innovative project. (Every year)

IGS 402. Senior Project (3 hours)
Pre-requisite IGS 401.
Each student will successfully complete a comprehensive research project utilizing recognized research methodology. Students will present and defend projects with peers and the instructor. (Every year)

IGS 493. Independent Study (3 hours)
Prerequisite: Permission of Department Chair.
Reading and discussion of selected works of major importance in interdisciplinary international and global studies. Restricted to majors/minors in programs housed in the IGS department.

IGS 496. Independent Research (3 hours)
Prerequisite: Permission of Department Chair.
Independent research and writing under supervision of a faculty member. Restricted to majors/minors in programs housed in the IGS department.

ENVIRONMENTAL STUDIES (ENV)
(formerly Environmental Studies and Policy-ENP)

The Environmental Studies and Policy major is designed to provide students with the scholarly background and intellectual skills necessary to understand complex environmental problems and formulate decisions that are environmentally sound. The academic process is multidisciplinary, drawing upon the diversity of environmentally-related departments and disciplines throughout Mercer and allows a student to explore a wide variety of environmental issues including: the social and human environment, the physical environment, and the biological environment. The field crosses traditional disciplinary boundaries, as deeper understanding of environmental problems and solutions requires attention to a wide range of concepts and analytical methods spanning the natural and social sciences.

The successful completion of the interdisciplinary ENV major satisfies the CLA Additional Depth of Understanding requirement and leads to a B.A. degree.

ENV 250. Principles of Sustainability (3 hours)
An exploration of the disciplined creation of long term inter-generational prosperity through the enhancement of human, natural, manufactured, and financial capital. Sustainability is concerned with how best to meet social and economic development objectives without compromising the future viability of natural and human systems. Principles of sustainability encourage a style of behavior comfortable with challenges, new ideas and constant change. Class time may be spent in lecture, discussion, case studies, experiential exercises and practical workshops. In addition a group service learning project will enable students to apply theoretical learning to a real organization or community situation. (Every two years)

ENV 330. Introduction to Geographic Information Systems (4 hours)
(Same as ENB 330)
Prerequisite: ENB 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.

The course is dedicated to examining contemporary expansion of industry in China and to assessing its impacts on the local and global environment and human health. Background of Chinese history and an overview of the fundamentals of Chinese culture, economy, and political structure are covered. The course allows students to assess the positive and negative impacts of industrialization on Chinese, European, and other societies. (Every Two Years)

**ENV 344. Environmental Ethics (3 hours)**
Prerequisite: either one course in PHI or ENB 150. An examination of ethical issues and theories as they apply to environmental concerns, together with a survey of emerging environmental philosophies. (Occasionally)

**ENV 350. Operations of Environmental Organizations (3 hours)**
Prerequisite: ENB 150 or SOC 101.
An examination of the creation, development, and operations of non-profit and "for profit" environmental organizations including concepts of federal and state certifications, quality assurance/quality control, management structure of large organizations, and defending your positions with credibility. A lecture/discussion course. (Every two years)

**ENV 495. Senior Seminar in Environmental Studies (3 hours)**
Prerequisites: senior status and permission of instructor.
An interdisciplinary study of a contemporary topic not covered in depth in the curriculum. Majors will present papers on research and write a review of a significant topic in environmental studies and policy. A lecture/discussion course. (Every year)

**GLOBAL HEALTH STUDIES (GHS)**
Bria Dunham and Chinekwu Obidoa, Assistant Professors

The major in Global Health Sciences addresses the health of global populations and communities through instruction, service, and community-based research. The major in Global Health Studies is designed to expand and enrich undergraduate educational learning outcomes by incorporating health curricula into liberal education. It provides graduates with the skills to analyze the factors underlying domestic and international health challenges and to combine research and service experience with the ability to make difficult social choices, to devise solutions to individual and population-wide health problems, and to implement disease-prevention strategies. It is interdisciplinary in that it draws on fields such as international affairs, law, and the natural and social sciences giving due consideration to principles of human rights and cultural perspectives that abound in our multicultural country and world.

The successful completion of the interdisciplinary major in Global Health Sciences fulfills the CLA Additional Depth of Understanding Requirement and leads to a B.A. degree.

**GHS 101. Nutrition (3 hours)**
This is an introductory course on human nutrition that emphasizes practical applications such as planning for normal nutrition through the life cycle, special needs of the elderly, chil-
dren and pregnant women, sanitation of food, legislation, and labeling as it affects the food supply. The physiological, psychological and economic aspects of obtaining an adequate diet as they relate to the changing needs of an individual will be discussed in addition to the relationship of nutrients to health and fitness. Current nutritional issues and controversies and food patterns of cultures and religions may also be discussed. (Every semester)

**GHS 200. Introduction to Health Sciences** (3 hours)
An overview of the major concepts and themes in health sciences utilizing the five core disciplines: biostatistics, environmental health, epidemiology, health management and policy and social and behavioral sciences. The course is based upon a population perspective and the means to foster a healthy society, including a detailed exploration of the impact of behavioral choices and environmental factors on health of populations. Historical examples of important public health challenges may be used to illustrate the nature, role, and organization of the public health response. (Every two years)

**GHS 299. Forum on Health Seminar for Sophomores** (1 hour)
Prerequisite: Sophomore standing.
A seminar focusing on the critical analysis of a Health topic. Student analysis, discussion, and presentation of primary literature are required. (Every year)

**GHS 300. Global Health Challenges** (3 hours)
Prerequisite: GHS 200.
An exploration of the contemporary issues, problems, and controversies in global health through an interdisciplinary perspective. The course will examine the global burden of disease and the complex social, economic, political, environmental, and biological factors that structure the origins, consequences, and possible treatments of disease. A range of learning formats (lectures, group discussion, panel presentations, case studies) and geo-mapping skill may be used. (Every two years)

**GHS 310. Medical Anthropology** (3 hours)
Prerequisite: GHS 200 or ANT 101.
An investigation of human health and illness within sociocultural, biocultural, and ecological contexts. The course aims to provide a broad, holistic view of the lived experience of disease and of multilevel interactions in the production of health and illness states, with examples from human societies that show diversity in health systems and in beliefs regarding health, illness, and the body. (Every two years)

**GHS 320. Environmental Health** (3 hours)
Prerequisite: GHS 200.
An overview of environmental health from local to global, addressing fundamental topics and current controversies. The first part of the course covers core topics that prepare students to more fully understand and address environmental health issues: toxicology, exposure assessment, environmental epidemiology, risk assessment/risk management, air pollution, water pollution, and environmental justice. Using the tools from the first part of the course, students then participate in sessions on occupational health, children's health and the environment, injuries, climate change and health, the built environment/urban sprawl, and debates concerning pesticide use. (Every two years)

**GHS 330. Epidemiology** (3 hours)
Prerequisite: STA 126 and GHS 200.
A survey of the concepts of epidemiological methods and their practical application toward understanding the determinants and distribution of health-related events among global populations. The course includes a critical assessment of various forms of study design, biostatistical analysis, interpretative concepts relative to the identification and prevention of
health outcomes and an examination of the utility of epidemiological findings and health-specific policy development. (Every two years)

GHS 340. Environment and Human Behavior  
(3 hours)  
Prerequisite: ENB 150, ENV 250, or GHS 200.  
A detailed study of the interactions between humans and the environments in which they live, drawing from examples that display diversity in subsistence technologies and economic development. Students will engage both with evolutionary and ecological approaches that consider the production and consumption of resources within an increasingly globalized world. (Every two years)

GHS 350. Global Health Policy  
(3 hours)  
Prerequisite: GHS 200.  
An in-depth examination of healthcare delivery, finance, and policy with a focus on each as a primary determinant of health and wellness among members of the international community. The course will include an exploration of contemporary health care issues related to access and disparity, health care professions, health care facilities, and government-specific health care programs, as well as policy changes that impact the relationship among selected nations. A salient component of the course is the development of skills relative to international comparison specific to healthcare delivery in an effort to identify health-specific need and development of programmatic solutions to current global health crises. (Every two years)

GHS 360. Reproductive Health Issues  
(3 hours)  
Prerequisite: GHS 200 or WGS 180.  
An interdisciplinary examination of reproduction and reproductive health in a global context. The course will consider how fertility and reproductive outcomes are influenced by cultural and political factors, as well as by the ecological systems within which humans live. (Every two years)

INTERNATIONAL AFFAIRS (IAF)  
International Affairs (IAF) is an interdisciplinary major designed to provide Mercer students with the basic tools and information required to develop an appreciation for an increasingly interdependent and complex global environment. All courses in this program have an international focus with emphasis on the interplay between domestic and international conditions. This major would allow students to: gain an understanding about, and appreciation for, other cultures and global issues, actors and trends; prepare for international careers or graduate specialized training in international studies; enrich the Mercer experience and curriculum by emphasizing international issues; and fulfill the additional depth requirement.  
Successful completion of the interdisciplinary IAF major fulfills the CLA Additional Depth of Understanding requirement and leads to a B.A. degree.

IAF 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. (Every semester)
IAF 381. Special Topics in Area Studies (3 hours)
Topics Vary. May be repeated as topics change. (Occasionally)

IAF 382. Special Topics in International Economic Relations (3 hours)
Topics vary. May be repeated as topics change.

IAF 383. Special Topics in International Peace and Security (3 hours)
Topics Vary. May be repeated as topics change. (Occasionally)

IAF 384. Special Topics in Cross-Cultural Studies (3 hours)
Topics Vary. May be repeated as topics change. (Occasionally)

IAF 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. (Every year)

SOCIAL ENTREPRENEURSHIP (SEP)
(formerly Program in Leadership and Community Service-PLS)

SEP 200. Introduction to Social Entrepreneurship: The Moral Imagination (3 hours)
The course examines the nature and development of a moral imagination and to the key role it plays in social entrepreneurial behavior. Concepts originating from the world's major religions (e.g. Judeo-Christian, Muslim, Hindu, Confucian, and Buddhist, etc.) and the "Nicomachean Ethics" (e.g. practical wisdom) are used to explain human nature and its strengths and weaknesses. Topics to be included, but are not limited to, are; altruism, happiness, actualization, wisdom, the ethical life, framing, pro-social behavior and empathy. Barriers to the development of a moral imagination are also discussed. An experiential learning project outside of class is required. (Every Year)

SEP 215. Ethics and Moral Leadership (3 hours)
This course is an exploration of the character and actions of significant moral leaders throughout world history. (Occasionally)

SEP 390. Community Assets and Needs Assessments (3 hours)
An analysis of community based need and assessment techniques, as a prerequisite to finding and mobilizing community resources to meet community needs. Entrepreneurial solutions to community mobilization will be examined. Students, with the aid of a community partner/site supervisor, will complete asset and need assessments in local communities and generate community mobilization plans. (Practicum required) (Every Year)

SEP 391. Program Analysis of Service and Entrepreneurial Systems (3 hours)
This course will examine the principles and practices of effective and sustainable non-profit organization, NGO's or social businesses. Effective non-profits are characterized by their capacity to meet human needs or create "social value", by their program relevance and intensity, by their cost-benefits and by the diversity of their "income streams". The course is designed for students who desire to create their own non-profit or social businesses; projects that meet human needs, are sustainable and that comply with human service universals. (Practicum Required) (Every Year)
The mission of the Department of Journalism and Media Studies is to offer students a liberal arts perspective on the study of media and journalistic storytelling by exploring the flow of content across multiple media forms and platforms including print and broadcast journalism, film, video, radio, television, and web – and mobile – based digital media. The Journalism program, in conjunction with the Center for Collaborative Journalism, focuses on meeting community news and information needs, gaining structured practical experience with guidance from working experts in the field, and incorporating subject matter expertise into journalistic work.

The Journalism major consists of a minimum of 38 hours, including a foundation of JMS 105, JMS 120, JMS 201, JMS 230, JMS 260, JMS 302, and JMS 440. An additional six hours must be selected from JMS 375, JMS 400, and JMS 401. An additional nine hours must be taken from JMS 305, JMS 320, JMS 324, JMS 362, JMS 370, JMS 385 and JMS 430. In addition, four hours of JMS 290 are required.

The Journalism minor consists of a minimum of 18 hours, including JMS 105, JMS 201, JMS 230, JMS 260, one hour of JMS 290, and six hours from JMS 302, JMS 320, JMS 324, JMS 362, JMS 385 and JMS 430.

In order to earn departmental honors in Journalism, a Journalism major must meet the following requirements: (1) a minimum overall grade point average of 3.5, (2) achieve a grade point average of 3.5 in the Journalism major, (3) complete JMS 430, (4) submit a portfolio of journalistic work by March 15 of the senior year to be juried by journalism professors and working journalists. The portfolio must be judged “outstanding” to receive honors.

The major in Media Studies consists of a minimum of 33 hours, including as a foundation JMS 220, 225, 230, 301, 305, and 398 (3 credit hours only). An additional 15 hours must be taken from the following list of JMS courses: JMS 240, 302, 310, 315, 316, 318, 340, 350, 362, 365, 370, 372, 375, 385, 400, 401, 405, 490, or 495. At least 12 of those additional 15 hours must be at the 300 level or above. JMS 290 does not count towards the major.

The minor in Media Studies consists of a minimum of 18 hours, including JMS 101, 230, and 12 hours of the following list of JMS courses: JMS 220, 225, 240, 302, 305, 310, 315, 316, 318, 340, 350, 362, 365, 370, 372, 375, 385, 398, 400, 401, 405, 490, or 495. At least nine hours of courses must be at the 300 level or above. JMS 290 does not count towards the minor.

In order to earn departmental honors in Media Studies, a Media Studies major must meet the following requirements: (1) a minimum overall grade point average of 3.5, and (2) achieve a grade point average of 3.5 in the Media Studies major.

The Department of Journalism and Media Studies also offers a minor in Film Studies. For details see the Film Studies heading immediately following the Journalism and Media Studies section of this catalog.

All Journalism and Media Studies courses with a required Lab component are taught in the department’s Digital Media Lab using Apple Macintosh computers. Students who wish to use their own computers should purchase a Macintosh with the department’s recommended software applications.
JMS 101. Media in Society (3 hours)
A survey of contemporary media with a focus on developing media literacy, and understanding media industries and the consequences of media messages on individuals, society, and culture. (Every semester)

JMS 105. Journalistic Insight into the Community (2 hours)
This course uses Macon as a case study on how to better understand a community from a journalistic perspective. Topics will include how journalists perceive and cover the community, including local government, business, nonprofits, health care and housing. The course will also apply multiple lenses to understand the factors that contribute to community development. Learning will result, in part, from guest speakers who are actively involved with the Macon community and field trips to local agencies and governmental offices. Students interested in the journalism major are encouraged to enroll in JMS 105 and JMS 120 during the same semester. (Every year)

JMS 120. Journalism and Media Boot Camp (2 hours)
Journalism and Media Bootcamp provides students essential preparation for journalistic writing and multimedia production in a fast-paced, deadline-driven environment. The goal is to provide journalism and media studies majors with foundational skills needed for future classes, and to provide non-majors with the skills and concepts needed to work with the Center for Collaborative Journalism. Students will learn basic journalism and media ethics, AP style, inverted pyramid style, video and still photography, and audio production. Students interested in the journalism major are encouraged to enroll in JMS 105 and JMS 120 during the same semester. (Every year)

JMS 150. News Writing for Converged Media (3 hours)
An introduction to writing news in a professional environment and to the forms journalism takes in a converged, digital age. Special emphasis is given to introduce the student to what is news and how it is found, fact gathering, story structure, and collecting information from primary and secondary sources. Lab Required. (Every semester)

JMS 198. Special Introductory Topics in Journalism, Film Studies, or Media Studies (Subtitle) (3 hours)
Study of an introductory topic in Journalism, Film Studies, or Media Studies not covered in any of the departmental offerings. This course may not be applied to the Journalism, Media Studies, or Film Studies majors or minors. (Occasionally)

JMS 220. Introduction to Film Studies (3 hours)
The course offers an introduction to the broad field of film studies including formal analysis, genre studies, film history, film criticism and film theory. Film screenings will be required. (Every Year)

JMS 225. Introduction to Nonfiction Film (3 hours)
This course offers a conceptual overview of the forms, strategies, structures and conventions of nonfiction film and video. The course focuses on social and political documentaries, personal essay films, digital stories, news documentaries, and narrative nonfiction techniques. (Every year)

JMS 230. Digital Storytelling (3 hours)
This course will explore digital storytelling as a contemporary form of narrative nonfiction storytelling. Students will learn how to shape and tell stories across multiple platforms and formats using current digital technologies. They will learn how to craft engaging stories that combine digital, audio, photography, video, narration, and interactive graphics. Lab required. (Every year)
JMS 240. Contemporary Issues and Media (3 hours)
This course examines the way that contemporary issues are shaped and manipulated by the media through framing and agenda setting. The course uses basic theoretical principles from both mass media and journalism studies to provide students with the ability to think critically and speak persuasively about the issues currently in the news. (Every other year)

JMS 260. Civic and Community Journalism (3 hours)
Prerequisite: JMS 150.
This course will emphasize news gathering techniques used in print, broadcast, and online journalism. The course will require students to apply their understanding of the key elements of civic journalism including: public listening techniques, advocacy vs. objectivity, framing, citizen involvement, problem solving, and coordination of media efforts. Lab activities complement classroom activities. (Every semester)

JMS 290. Journalism/Media Practicum (1 hour)
Practical experience working in approved media organization. May be repeated for up to 8 credit hours; only four hours may count for the Journalism major and only one hour may count for the Journalism minor. Graded on an S/U basis. Four credit hours are required for Journalism majors; one credit hour is required for Journalism minors. Does not count towards major or minor in Media Studies. (Every semester)

JMS 301. Media Criticism (3 hours)
This course examines media texts as cultural artifacts from a variety of critical and theoretical perspectives. We will focus on film, television, and New Media in our examination of the meanings, pleasures, and practices of one of the most widespread sign systems of our time. The approaches/methods will include: semiotics, auteur theory, genre theory, feminist theories, cultural studies, postmodernism, and cybercriticism. (Every year)

JMS 302. Hacking the Media (3 hours)
The goal is to equip journalism and media studies students with foundational technical knowledge and enable them to construct a wide variety of digital solutions for news and information dissemination. Such solutions may include interactive timelines, quizzes and games, data visualizations, interactive videos and slideshows. Students will learn to use tools and APIs from major media organizations. Lab required. (Every two years)

JMS 305. The Visual Story (3 hours)
The course is concerned with the relationship between story/script structure and visual structure in creating film, TV, and digital media. Concepts and principles covered in the course can be used in the preparation, production, and editing of motion pictures, television shows, short films, documentaries, commercials, and other digital platforms, be they live action, animated, or computer generated. Lab required. (Every two years)

JMS 310. Race, Gender and Media (3 hours)
(Same as AFR 310 and WGS 310)
This course will critically examine the role of the media in enabling, facilitating, or challenging the social constructions of race and gender in our society. We will consider the mass media to be one among many other social institutions such as religion, education, and family, which strongly influence our everyday notions of race and gender. The course will address a variety of entertainment and news content in print and electronic media. (Every other year)

JMS 315. Film Director (Subtitle) (3 hours)
In-depth study of a selected film director. Director study will analyze and evaluate a director's dominant themes, creative content, historical context, and cinematic style. (Every other year)
JMS 316. Film Genre (Subtitle) (3 hours)
In-depth study of a selected film genre. Genre study will be an analysis and discussion of specific generic conventions, historical shifts from within the genre, and theoretical foundations. Potential genres include; Science Fiction, American Screen, Comedy, Film Noir, Horror Film, Westerns, and Animation. (Every other year)

JMS 318. Queer Cinema (3 hours)
(Same as WGS 318)
The course offers an overview of the aesthetic hallmarks, political impulses and critical responses that distinguish queer cinema as a unique, important tradition. Queer authorship, reading practices, and the queerness inherent in mainstream genres will be explored. The work of lesbian and gay filmmakers working in avant-garde and underground venues will also be discussed moving towards a consideration of the New Queer Cinema movement. (Every other year)

JMS 320. Data Journalism (3 hours)
Prerequisite: JMS 302
This course prepares students to gather, analyze and present data in the public interest. Students will learn how to identify, obtain and evaluate useful documents and other sources of data; clean, analyze and extract meaningful information from large data sets; prepare data for public consumption, including telling stories based on data, producing visualizations of relevant data, and making it possible for consumers to interact with the data. Lab required. (Every two years)

JMS 324. Investigative Reporting (3 hours)
Prerequisite: JMS 260.
This course focuses on investigative reporting with an emphasis on in-depth newsgathering techniques to prepare students for reporting public affairs in print, broadcast, and online 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. Lab Required. (Every year)

JMS 330. Editing/Design (3 hours)
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. Lab Required. (Every other year)

JMS 340. Digital Audio (3 hours)
This course covers the fundamentals of audio recording and mixing, and post-production sound. Topics include physical & perceptual acoustics, basic electricity, analog & digital recording principles, console operation, microphone selection & placement, and sound engineering in live and studio situations. No previous musical background or recording experience required. Lab Required. (Every year)

JMS 350. Digital Filmmaking (3 hours)
This course introduces students to the creative and technical aspects of small format video production as well as the basic principles and language of film/video. Production projects will be oriented toward developing the student's creative vision and students will learn to express their ideas and understanding through video. By producing short video projects, students will use film techniques to tell their stories, as they learn the art of moviemaking and gain technical proficiency. Lab Required. (Every year)

JMS 362. Documentary Storytelling (3 hours)
An advanced production course covering nonfiction formats. The course explores directing
the documentary video with an emphasis on the analysis of nonfiction films; and writing, planning, directing, and editing class projects. The class will examine the documentary filmmaker's role, responsibilities, and methods of working in all phases of pre-production, production, and post-production. Lab Required. (Every other year)

**JMS 365. Storytelling and Social Change** (3 hours)
Prerequisite: JMS 230 or 362.
An advanced theory and production class focusing on media storytelling as an agent for civic engagement and positive social change. Students will view and analyze prominent examples of documentary and narrative storytelling while preparing to assist local agencies in producing social advocacy videos that promote organizations or social causes. These service learning production projects make up a significant component of the course. Lab required. (Every other year)

**JMS 370. Public Relations** (3 Hours)
This course will address the theory and practice of public relations, how public relations operates in organizations, its impact on publics and its functions in society. Students will study the professional development of the field; concepts, issues, and principles in the practice; and models and theories guiding the practice. There will be an emphasis on case studies, lectures, and experimentation with major public relations tools and practices. (Every year)

**JMS 372. Screenwriting** (3 hours)
An introduction to writing for the screen, this course focuses on the conventions and craft of narrative storytelling. Students work individually and as part of a creative team to tell stories for the screen in terms of action and characters. Short individual writing exercises receive peer analysis and review in a workshop setting. Students will analyze produced films and scripts and will provide a final screen play of their own that adheres to the conventions of narrative storytelling and dramatic structure. Lab required. (Every two years)

**JMS 375. Journalism History** (3 hours)
This course is designed to examine journalism from the first crude hand presses and wooden types, through the Colonial and Revolutionary eras in America, the pioneer and western settlement eras, the Civil War, the expansion West, the time of Yellow journalism, the rise of the magazine, the rise of the radio, the rise of television, the coming of computer technology, corporate ownership, the vast media conglomerates that have emerged in the last decades, and other areas that define journalism today. (Every other year)

**JMS 398. Internship in Journalism and Media** (1-9 hours)
Prerequisite: junior or senior status
An internship of at least three on-site hours per week for every hour of credit for least 15 weeks with an approved media outlet or related organization or agency. The student will serve as an apprentice under professional supervision with regular consultation with his/her journalism/media studies professor at Mercer. May be repeated for a total maximum of 9 hours. Graded on S/U basis. Three hours required for major in media studies; does not count toward major or minor in Journalism. (Every semester)

**JMS 400. Media Ethics** (3 hours)
This course examines the process of ethical decision making in professional media communication and the principles on which ethical decisions are based. Through readings, case studies, class discussions and presentations, students will examine the role of ethics in different journalism and mass communication contexts, including reporting, digital storytelling, blogging, advertising, and public relations. (Every year)
JMS 401. Media Law (3 hours)
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. (Every other year)

JMS 405. Seminar in Film Studies (3 hours)
Seminar on a figure, theme, style, movement or theory in film studies, with practice in the methods of research in film studies. Open to seniors enrolled in the interdisciplinary minor in film studies and to others with approval of the Coordinator of Film Studies. Emphasis on individualized work, which may include reports, a longer research project, or a research essay. (Every other year)

JMS 430. Enterprise Journalism (3 hours)
Prerequisite JMS 150 and JMS 260.
This course is an advanced news reporting and writing course exploring the important connection between communities and their print and broadcast media. Students will better understand the media’s role in a democracy empowering people to engage in public life. Special emphasis is placed on news judgment, responsibility to the community and covering the community through creative partnerships. Through cooperative learning projects and research, students will use a model of civic journalism to develop a project for the community. (Every other year)

JMS 440. Advanced Practicum and Specialized Readings (3 hours)
Prerequisite: Senior standing.
This course provides an individualized experience where students execute focused journalism in their subject-matter field of expertise (from their second major, minor or journalistic specialty). Students will read exemplary journalistic texts (newspaper and magazine stories, documentaries, and TV and radio reports) in their field and produce multiple journalistic works in that domain. (Every year)

JMS 490. Special Topics in Journalism and Media (3 hours)
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. (Occasionally)

JMS 495. Directed Independent Study in Journalism and Media (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. May be repeated with different projects/topics, but total credit may not exceed 6 hours. (Occasionally)

FILM STUDIES
Cynthia Gottshall, *Director and Professor*

The Film Studies Minor is an interdisciplinary field of inquiry devoted to the analysis of cinema both as a unique art form in its own right and as a medium influenced and shaped by related fields such as literature and the visual arts. The goals of this program are to encourage serious consideration of film as texts, as an art form and as popular culture; to explore film as a medium of communication; and to examine the power of film in shaping
attitudes, values, and our understanding of society and the world. Film Studies is a discipline distinct from film making, which focuses on skills of film production rather than film analysis. The Interdisciplinary Minor is an opportunity to pursue interpretations of the artistic, cultural, and intellectual importance of film. The curriculum begins with Introduction to Film Studies, offers courses in a variety of interdisciplinary perspectives, and culminates in a Seminar involving research on a special topic in the study of film.

To earn the Minor in Film Studies, students will be required to complete 21 film studies credits approved by the coordinator of Film Studies. The 21 credits will include the following 12 hours of core courses:

- JMS 220: Introduction to Film Studies
- JMS 225: Introduction to Non-Fiction Film
- ENG 237: Literature and Film
- JMS 405: Seminar in Film Studies

An additional nine hours of electives will be selected from the following: ENG 382, JMS 305, 315, 316, 318, 490, or a course approved by the Coordinator of the Film Studies Program in which film is the main object of study.

**LAW AND PUBLIC POLICY (LPP)**

For a description of the courses offered in Law and Public Policy, along with the requirements for the major in this discipline, see the heading POLITICAL SCIENCE in this catalog.

**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 catalog.

**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 catalog.

**MATHEMATICS (MAT), INCLUDING STATISTICS (STA)**

Kedrick Hartfield, Chair/Associate Professor
Curtis D. Herink and David G. Nelson, Professors
Jeffrey K. Denny, Keith E. Howard, Hope McIlwain, Margaret Symington, and Carolyn Yackel, Associate Professors
Matthew Noble and Yuanting Lu, Visiting Assistant Professors
Jennifer Ellis, Instructor

The Department offers mathematics majors leading to a Bachelor of Arts or a Bachelor of Science degree. All majors are required to take the following core courses: MAT 191, 192, 260, 293, 340, 499, and CSC 204. The mathematics major leading to a Bachelor of Arts degree requires 30 hours in mathematics and 4 hours in computer science. The require-
ments are the core courses, either MAT 461-462 or MAT 481-482, and two additional courses numbered 320 or above. The mathematics major leading to a 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, 162; 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, 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.

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.

A minor in statistics consists of STA 126, 227, 330, 340, and an additional course from the following: STA 390, MAT 320, ECN 353, POL 295, BIO 421, PSY 302, SOC 304, GHS 330.

Secondary Teacher Certification Program in Mathematics

Teacher certification in mathematics (6-12) is available to mathematics majors who complete MAT 320 and 350. (MAT 225 is recommended.) Students planning to teach mathematics in secondary school should notify their advisor and contact the secondary education advisor in Tift College of Education. Required courses in education include EDUC 210, 220, 256, 283, 357, 398, 399, 406, 456, 469, 476, 485, and 492. Please consult the TIFT COLLEGE OF EDUCATION section of this catalog for more details.

Mathematics Courses

Either MAT 095 or a satisfactory score on the Math Index or the mathematics placement exam is prerequisite to all other mathematics courses except MAT 104.

MAT 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. (Every semester)

MAT 104. Mathematical Ideas (3 hours)
An introduction to mathematical ideas that teaches rigorous, precise, effective thinking. Topics will include classical proofs (e.g., Infinitude of Primes, Pythagorean Theorem, Platonic Solids), real world manifestations (e.g., basic probability, codes, Fibonacci numbers, risk), abstractions (e.g., infinite sets, fourth dimension, graph theory, knots), and patterns (e.g., symmetry, fractals). (Every semester)
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>MAT 121</td>
<td>Concepts in Calculus</td>
<td>3 hours</td>
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<td>MAT 131</td>
<td>College Algebra: Functions and Graphs</td>
<td>3 hours</td>
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<tr>
<td>MAT 133</td>
<td>Precalculus</td>
<td>4 hours</td>
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<tr>
<td>MAT 141</td>
<td>Calculus for the Social Sciences</td>
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<tr>
<td>MAT 191</td>
<td>Calculus I</td>
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<td>MAT 192</td>
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<tr>
<td>MAT 198</td>
<td>Special Introductory Topics in Mathematics (Subtitle)</td>
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<tr>
<td>MAT 225</td>
<td>Topics in Discrete Mathematics</td>
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<tr>
<td>MAT 260</td>
<td>Introduction to Abstract Mathematics</td>
<td>3 hours</td>
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MAT 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. (Occasionally)

MAT 131. College Algebra: Functions and Graphs  (3 hour)
Topics include graphs and functions (linear, quadratic, polynomial, rational, exponential, and logarithmic). Credit cannot be earned in both MAT 131 and MAT 133. (Every semester)

MAT 133. Precalculus  (4 hours)
Prerequisite: a grade of C or better in MAT 095 or equivalent.
Topics include graphs, functions (linear, quadratic, polynomial, rational, exponential, logarithmic, trigonometric, and inverse trigonometric), and trigonometric identities. Credit cannot be earned in both MAT 131 and MAT 133. (Every semester)

MAT 141. Calculus for the Social Sciences  (3 hours)
Prerequisite: MAT 131, 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. Both MAT 141 and 191 can be taken, but credit will be granted for only one, which is to be determined by written permission from the Mathematics Department. Students who plan to major in mathematics, chemistry, computer science, or physics should take MAT 191. (Every semester)

MAT 191. Calculus I  (4 hours)
Prerequisite: a grade of C or better in 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. Both MAT 141 and 191 can be taken, but credit will be granted for only one, which is to be determined by written permission from the Mathematics Department. (Every semester)

MAT 192. Calculus II  (4 hours)
Prerequisites: a grade of C or better in MAT 191 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. (Every semester)

MAT 198. Special Introductory Topics in Mathematics (Subtitle)  (3 hours)
Study of an introductory topic in Mathematics not covered in any of the departmental offerings. This course may be applied to the Mathematics major or minor. (Occasionally)

MAT 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). (Every semester)

MAT 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. (Every fall semester)
MAT 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. (Every semester)

MAT 320. Probability and Mathematical Statistics (3 hours)
Prerequisite: MAT 192.
Concepts and basic properties of some special probability distributions, independence,
moment generating functions, sampling distributions of statistics, limiting distributions.
(Every spring)

MAT 330. Introduction to Differential Equations (3 hours)
Prerequisite: MAT 192.
A study of ordinary differential equations using qualitative, numerical and analytic approach-
es. Topics include first-order differential equations, second-order linear differential equa-
tions, systems of differential equations, Laplace transformations and applications. (Every
semester)

MAT 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. (Every two years)

MAT 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 appli-
cation of matrices to the study of vector spaces; systems of linear equations and linear
transformations. (Every spring semester)

MAT 345. Applied Mathematical Modeling (3 hours)
Prerequisite: MAT 330 or permission of the instructor.
This course focuses on mathematical modeling of phenomena from biology, chemistry,
engineering, medicine, and physics. Students learn the tools and techniques of modeling
using differential equations, matrix algebra, and statistics and learn to formulate a variety of
models. Students engage cooperatively and individually in the formulation of mathematical
models and in the techniques of investigating those models. Several major projects
throughout the semester give the students experience in applying the tools and formulation
of models. Class sessions consist of lectures and hands-on experimentation with projects
using several computational tools. (Every two years)

MAT 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 geomet-
ries. Offered infrequently. (Every two years)

MAT 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. (Occasionally)

COLLEGE OF LIBERAL ARTS / 227
MAT 398. Internship in Mathematics (1-3 hours)
Prerequisites: junior or senior status
An intensive practicum experience at an approved business, organization, or academic institution. Senior-level students, under the direction of a faculty member and an on-site supervisor, are required to engage in projects or assignments requiring at least three on-site hours per week for every hour of credit. Students will learn through observation, regular discussions with the on-site supervisor and Mercer faculty member, and written reflection. In addition, students may be required to attend training events, workshops or weekly seminars. This course may be repeated for a total of 9 hours and does not count towards a major or minor in Mathematics. Graded S/U. (Every year)

MAT 401. Directed Independent Study (1-3 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. (As required)

MAT 402. Directed Independent Research (1-3 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. (As required)

MAT 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. (Every two years)

MAT 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. (Every two years)

MAT 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. (Every fall semester)

STATISTICS (STA)

A minor in statistics consists of STA 126, 227, 330, 340, and an additional course from the following: STA 390, MAT 320, ECN 353, POL 295, BIO 421, PSY 302, SOC 304, GHS 330, or MKT 415.

STA 126. Introductory Statistics (3 hours)
Introductory statistics including the collection of data, descriptive statistics, probability, and inference. Topics include sampling methods, experiments, numerical and graphical descriptive methods, correlation and regression, contingency tables, probability concepts and distributions, confidence intervals, and hypothesis testing for means and proportions. (Every semester)

STA 198. Special Introductory Topics in Statistics (Subtitle) (3 hours)
Study of an introductory topic in Statistics not covered in any of the departmental offerings. This course may be applied to the Statistics minor. (Occasionally)
STA 227. Statistical Methods  (3 hours)
Prerequisite: STA 126.
Statistical distributions; one- and two-population tests about means, including t-tests and paired-difference tests; one- and two-population tests about the variance; contingency tables and goodness-of-fit tests; non-parametric tests; analysis of variance and simple experimental designs; linear regression and residual diagnostics. (every spring)

STA 330. Applied Experimental Design  (3 hours)
Prerequisite: STA 227 or consent of instructor.
Constructing and analyzing statistical experimental designs; blocking, randomization, replication and interaction; complete and incomplete block designs; factorial experiments; repeated measures; confounding effects. (every other fall)

STA 340. Applied Regression Analysis  (3 hours)
Prerequisite: STA 227 or consent of instructor.
Applied methods in regression analysis. Topics include univariate linear regression, techniques of multiple regression and model building, ANOVA as regression analysis, analysis of covariance, model selection and diagnostic checking techniques, nonlinear regression, and logistic regression. (every other fall)

STA 390. Topics in Statistics (Subtitle)  (3 hours)
Prerequisite: consent of instructor.
An intensive study of some significant topic in statistics, not otherwise covered in departmental offerings. May be repeated once when a different topic is covered. (occasionally)

THE MERCER SERVICE SCHOLARS PROGRAM (MSS)

Chris Grant, Director/Associate Professor of Political Science

The Mercer Service Scholars (MSS) program serves as a track within the University Honors program. Each year a cohort of academically talented and service-oriented students are selected for the Mercer Service Scholars (MSS) program. MSS participants also are required to be engaged in both the campus community as leaders and to perform service activities across their time in the program. Each year an annual retreat is offered for all MSS students. Two additional hallmarks of the program are the Mercer On Mission component that comes between the sophomore and junior years and the culminating project. The particular Mercer On Mission experience is built around the cohort and limited to MSS participants. The culminating project is a unique showcase of an individual’s (or a team’s) service and leadership. It should demonstrate planning, implementation, and evaluation skills and be actionable.

The program has 3 phases:

Phase 1: Year 1
Selected students are enrolled as a cohort in a specially designated first year experience. This year includes curricular and co-curricular programming with the cohort participating in a major service project, as well as leadership training.

Phase 2: Years 2 & 3
Students take the MSS sequence of courses as a cohort including the summer Mercer On Mission experience. During these years students log a report on community service and leadership activities.
Phase 3: Year 4

Culminating projects are designed, implemented, and evaluated by students either working individually or in teams. These projects may be direct service or indirect service endeavors including community-based research. Students are encouraged to work inside of their majors in developing their senior projects.

By completing the Mercer Service Scholar Program a student receives an enhanced experience in leadership and service. Selection for the program is based on applicant having already demonstrated high levels of achievement in academic work as well as an advanced level of social consciousness evidenced through their record of engagement on campus and in the community. The program offers participants unique service opportunities that provide a value-added aspect to their Mercer education. By receiving training and participating in diverse experiences students should develop skills needed to be highly effective leaders in any career trajectory. In particular students completing the program are encouraged to consider applying for national scholarships or careers in public service.

MSS participants are expected to maintain a 3.5 GPA and to be involved in both campus and community activities. Formal reviews of individual MSS participants come at the end of the third and sixth semesters of their career at Mercer. Successful completion of the program results is noted on a participant's transcript.

MSS 111. Service and Society—Community  (1 hour)
A course designed to introduce Mercer Service Scholars to the service ethos at Mercer and the Macon Community. Students will examine the many service opportunities available at Mercer and explore Macon with attention to the impact Mercer has had on this community over its history. Emphasis is placed on bringing forward a new generation of leaders to continue the tradition of student service. All students enrolled will participate in service-learning. (Every Fall)

MSS 112. Service and Society—Leadership  (1 hour)
A continuation of MSS 111, this course places emphasis on understanding and developing an individual leadership style. Students are exposed to theories of leadership with particular focus on the literature of Servant Leadership. Students are also challenged to be leaders both on campus and in the community. All students enrolled will participate in service-learning. (Every Spring)

MSS 222. Global Awareness and Project Development  (2 hours)
A seminar focused on a specific locale to prepare participants for an applied experience. Students will engage in learning about culture, traditions, and issues of the location as well as gaining perspective on needs assessment. The course is specifically reserved for students admitted to the Mercer Service Scholars Program. (Every year)

MSS 331. Service and Leadership in a Global Context  (3 hours)
Pre-requisite: MSS 222.
This course provides students with both a theoretical and hands on approach to service and leadership in an international setting—usually in the developing world. Emphases include understanding the equality of humans, social and environmental challenges of development, and feasibility of solutions. The course is specifically reserved for students admitted to the Mercer Service Scholars Program. (Every year)

MSS 332. Service and Leadership—Action and Vocation  (3 hours)
Pre-requisite: MSS 331.
A project-focused seminar that allows students to develop ideas that generate from their experiences in Servant Leadership in a Global Context. Students will explore planning and evaluation techniques that will enhance their skills in developing actionable projects. Further, students will explore vocational issues related to their experiences abroad. The course is specifically reserved for students admitted to the Mercer Service Scholars Program. (Every year)

MILITARY SCIENCE (MIL)

Captain Cynthia Warren, Chair
Master Sergeant Harris Dickerson, Senior Military Instructor

The ROTC four-year program is divided into the basic courses, which encompass the freshmen and sophomore years, and the advanced courses, which encompass the junior and senior years. A two-year ROTC program is available for students who make the decision to join ROTC later, and this program requires attendance at a summer Leaders Training Course at Fort Knox, Kentucky, between the sophomore and junior years. For students enrolled in the military science program for the basic courses or the Leaders Training Course are prerequisite for the advanced courses. Military science courses include weekly leadership labs, 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 elect to compete for two, three, and four-year United States Army scholarships.

Participation in the commissioning portion of the ROTC program is not required for enrollment in military science courses. Any Mercer University student can complete the minor in military science with no service obligation. The military science minor consists of the following courses, totaling 15 hours: MIL 301, 302, 401, 402, and HIS 330.

Basic Courses

MIL 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. (Every fall semester)

MIL 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. (Every spring semester)

MIL 201. Leadership I (2 hours)
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 nav-
igation 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. (Every fall semester)

**MIL 202. Leadership II**
(2 hours)
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. (Every spring semester)

**Advanced Courses**

**MIL 301. Tactics I**
(3 hours)
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. (Every fall semester)

**MIL 302. Tactics II**
(3 hours)
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. (Every spring semester)

**MIL 401. Command and Staff Functions**
(3 hours)
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. (Every fall semester)

**MIL 402. Transition to Lieutenant**
(3 hours)
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. (Every spring semester)

**Additional Courses**

**MIL 451. Advanced Theory of Military Leadership I**
(1 hour)
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. (Occasionally)

**MIL 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. (Occasionally)

**MUSIC (MUS)**
For description of the programs of study in this area, and of courses offered, see the section TOWNSEND SCHOOL OF MUSIC in this catalog.
Philosophy is a part of nearly every area of study. Many of the great intellectual movements, theories, and belief systems in our society owe something to philosophy. Subjects covered by philosophy courses include aspects of many other disciplines: ethics (applied and theoretical), logic, the nature and scope of human knowledge, art, film, literature, politics, law, gender, medicine, mind and body, and religion. Students explore these areas by reading classic works of philosophy that constitute some of the most important works in the Western intellectual heritage, but may also study views expressed by virtually any culture, ethnic group, or worldview, including ideas extracted from today's news. Philosophy is both personal and communal; each student must seek his or her own understanding and perspective, but learning comes through communication of ideas, critical analysis, and making your case to others.

Philosophy Major

A major may be earned by taking 30 semester hours in philosophy, and must include 195, 280, 301, 311, 314, and 401; one course selected from 312, 313, 315, 316; one course selected from 360, 390, 393; and three elective philosophy courses. Philosophy majors must complete and pass a comprehensive examination on broad philosophical topics. These questions will require significant reference to philosophers and philosophical positions central to the western philosophical tradition. The philosophy comprehensive examination will be administered once each semester. Students will be eligible to take this examination after completing 75 hours of course credit and at least two History of Philosophy courses (311, 312, 313, 314, 315, 316). Students must complete the exam prior to the beginning of their last semester in residence or graduation.

Philosophy Minor

A minor may be earned by taking 15 semester hours in Philosophy; two courses must be at 300-level or above and one of those must be selected from 311 or 314.

Department Honors

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, 390, or 393; (3) present an honors thesis based on a closely supervised research project to be approved by all members of the Department.

PHI 180. Logic and Language (3 hours)

A study of the principles used in distinguishing correct from incorrect reasoning, employing both formal and informal methods. 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. (Every year)

PHI 190. Introduction to Philosophy (3 hours)

An introduction to reading, writing, and thinking about the important issues and intellectual figures in the history of Western thought. The Western tradition of philosophical thought will define the subject matter of the course: Major elements of the Western tradition are understood in terms of important theories and ideas; “development of the West” is parsed
in terms of the evolution and influence of those ideas; the influence of ideas from past cultures on later thinkers from disparate environments is carefully studied; and the influence of past thinkers in shaping the students' own self-understanding and perspective will be explored. Emphasis will be placed on the cultivation of a philosophical attitude and the development of the arts of conceptual analysis and synthesis. (Every year)

**PHI 195. Introduction to Ethics** (3 hours)
A study of the principal ethical traditions and theories of Western culture and their application to contemporary moral issues and social problems. This course provides a solid basis for anyone who wants training in the rational analysis of difficult and complex moral issues and decisions. (Every year)

**PHI 198. Special Introductory Topics in Philosophy (Subtitle)** (3 hours)
Study of an introductory topic in Philosophy not covered in any of the departmental offerings. This course may be applied to the Philosophy major or minor. (Occasionally)

**PHI 230. Political Philosophy** (3 hours)
Provides an introductory examination of fundamental political issues in Western intellectual history, such as the contrast of individual rights versus political authority; freedom and equality; the origin and purpose of political institutions; and whether the human race demonstrates political progress over time. The course is executed via historical study of influential philosophical texts. (Every year)

**PHI 235. Philosophy of Law** (3 hours)
This course introduces students to legal reasoning and the various theories regarding law and legal systems. In addition to discussing the traditional schools of jurisprudence, we will examine particular issues in legal theory such as obligation (social and economic), paternalism and the role of the judiciary. (Every two years)

**PHI 237. Gender, Philosophy, and Law** (3 hours)
(See WGS 285)
This course will examine two basic questions: 1) What does it mean for a society to treat men and women justly? 2) How close do American society and the American legal system come to this ideal? The course will consider these questions through readings in philosophy, social science, and law on topics such as: wage disparities between men and women; marriage, divorce, and child welfare; pregnancy, abortion, and reproductive technologies; and rape, prostitution, and pornography. (Every two years)

**PHI 240. Philosophy of Religion** (3 hours)
A study of some of the major philosophical and theological issues that arise in the careful application of reason to the philosophical study of religion. The course examines important issues grounded within direct scriptural readings of the Judeo-Christian Heritage from a philosophical perspective and grounds those issues in religious scripture. Topics will be discussed and considered guided by reason, using the methods of philosophical theology giving particular emphasis to relevance in relation to the students' own religious experiences and beliefs. (Every two years)

**PHI 247. Eastern Philosophy** (3 hours)
A study of some of the major traditions of Eastern Philosophy. This course attempts to introduce students to the rich breadth and remarkable depth of some of the oldest philosophical schools of thought extant. The philosophies of India, in particular, may be traced back to poetic scriptural traditions originating in the 3rd millennium; and these traditions continue to inform lively contemporary schools of Indian philosophical thought. The humanism of Confucius and the schools of Chinese Philosophy that take their bearings...
from his ancient wisdom are both rich in their own terms and illuminating for students immersed in the intellectual traditions of the west. Readings will vary. No background in Western or Eastern philosophy presumed. (Every two years)

PHI 250. Mind, Brain and Behavior (3 hours)
This course is an introductory survey in topics in the philosophy of mind. Topics that will be covered in the course include theories of the nature of mind (dualism, behaviorism, functionalism, etc.), theories of personal identity, and puzzles and problems relating to role and nature of consciousness. Other topics may include philosophical treatments of: mental causation, perception, mental content and/or artificial or non-human intelligence. (Every two years)

PHI 260. Philosophy of the Arts (3 hours)
This course is a survey of the philosophy of the arts. Subjects may include, but are not limited to the nature of beauty, art as representation, aesthetics and the aesthetic experience, art and ethics, art as evoking or expressing emotions, the formal qualities of art, the relation between form and content, the intention of the artist, the art world, art in context, and the nature of the art object. Any of the arts may be studied, including but not limited to music, fine art, folk art, public art, film, architecture, dance, and performance. (Every two years)

PHI 265. Philosophy and Film (3 hours)
An introduction to philosophy and creative visual art through study of the discursive and aesthetic aspects of film. The course combines film criticism and appreciation with philosophical analysis in order to articulate the philosophical dimensions of art objects and the specific way film functions as a philosophical artistic medium. Materials of study include philosophical texts and seminal examples of both domestic and international film. (Every two years)

PHI 267. 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. (Every two years)

PHI 269. Human Nature and Art: (Location) (3 hours)
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. Students in the course experience directly the works of art and architecture in question, since the course is only taught as a part of a study abroad program. (May be repeated once for credit if offered in a different location.) (Occasional)

PHI 280. Formal Logic (3 hours)
Prerequisite: One course in philosophy or six semester hours in mathematics or computer science. This course is a formal study of inference. Subject matter may include the syllogism, modal logic, consequences, truth functions, and quantification theory. Recommended, but not required: PHI 180. (Offered two years out of every three)

PHI 290. Special Topics in Philosophy (3 hours)
A study of some significant topic in philosophy. Suitable for students with no background in philosophy. May be repeated with a different topic. (Occasional)

PHI 295. Topics in Applied Ethics (3 hours)
Prerequisite: PHI 195.
A study of some topic or topics in applied ethics, this course builds off of theoretical ethics studied in PHI 195. Topics that may be offered are diverse, but may include: bioethics, business ethics; ethics, law, and international affairs; decision theory; environmental ethics; professional ethics; and leadership and organizational ethics. May be repeated with a different topic. (Every year)

**PHI 301. Junior Seminar**
(1 hour)
Prerequisite: one course in philosophy, Junior status, declared major in philosophy
This course is a workshop in philosophical skill development, including essay writing, thesis and argumentation development, critical thinking, and presentation. Students will work together, with faculty, and with seniors from the Senior Seminar (see PHI 401) to complete at least one advanced philosophical project by the end of the semester. Junior seminar also will involve preparing for and attending talks by guest lecturers and/or attending off-campus philosophy-related events. (Every fall semester)

**PHI 311. History of Philosophy I: Ancient Greek Philosophy**
(3 hours)
Prerequisite: one course in philosophy.
A survey of ancient Greek philosophy, including the pre-Socratics, Plato, and Aristotle. (Every fall semester)

**PHI 312. History of Philosophy II: Hellenistic and Early Medieval Philosophy**
(3 hours)
Prerequisite or Corequisite: PHI 311.
A survey of Hellenistic and early Medieval philosophy, which can include the Epicurean, Stoic, Skeptical, and Neo-Platonic schools of the Hellenistic world, as well as early Christian thinkers such as Augustine, Boethius, and Anselm. (Every three years)

**PHI 313. History of Philosophy III: Scholastic and Humanistic Philosophy**
(3 hours)
Prerequisite or Corequisite: PHI 311.
A survey of late Medieval philosophy, which can include Islamic, Jewish, and Christian philosophers (Averroes, Maimonides, Aquinas, Ockham), and the rise of humanism, possibly including new approaches to ethics and politics (Machiavelli, Montaigne) and new approaches to nature (Bacon, Galileo). (Every three years)

**PHI 314. History of Philosophy IV: Early Modern Philosophy**
(3 hours)
Prerequisite: One course in philosophy.
A survey of early modern philosophy, including figures such as Descartes, Hobbes, Spinoza, Locke, Leibniz, Berkeley, Hume, and Rousseau. (Every spring semester)

**PHI 315. History of Philosophy V: Kant and the Nineteenth Century**
(3 hours)
Prerequisite or Corequisite: PHI 314
A survey of Kant and nineteenth century philosophy, including figures such as Hegel, Schopenhauer, Marx, Mill, and Nietzsche. (Every three years)

**PHI 316. History of Philosophy VI: Late Nineteenth and Early Twentieth Century**
(3 hours)
Prerequisite or Corequisite: PHI 314
A survey of late nineteenth and early twentieth century philosophy, which can include the schools of existentialism, phenomenology, pragmatism, and analytic philosophy. Possible figures to be covered include Peirce, James, Husserl, Dewey, Russell, Wittgenstein, Heidegger, and Sartre. (Every three years)
PHI 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. (Every two years)

PHI 360. Great Philosophers (3 hours)
Prerequisite: PHI 311.
An intensive study of the works of one or more major figures or schools from the history of philosophy. The course is designed to acquaint the student with the principles of philosophical research, as well as to provide an extensive knowledge of the philosopher(s) selected. The philosopher(s) 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. (Occasional)

PHI 390. Special Topics in Philosophy (3 hours)
Prerequisite: One course in philosophy and junior or senior status; or consent of the instructor.
An intensive study of some significant topic in philosophy, not otherwise covered in departmental course offerings. May be repeated once for credit. (Occasional)

PHI 393. Advanced Topics in Ethics (3 hours)
Prerequisite: PHI 195
An intensive examination of the relation of philosophic ethics to human morality. Questions to be examined may include: the history and development of morality as a distinct form of judgment and action; the scope, authority, and force of moral obligation; the role of reason and justification in moral choice and action; the impact of ethical theories and practice on human choice, value, and meaning; and the relation of morality to human psychology and evolutionary biology. (Occasional)

PHI 398. Internship in Philosophy (1-3 hours)
Prerequisites: junior or senior status
An intensive practicum experience at an approved business, organization, or academic institution. Senior-level students, under the direction of a faculty member and an on-site supervisor, are required to engage in projects or assignments requiring at least three on-site hours per week for every hour of credit. Students will learn through observation, regular discussions with the on-site supervisor and Mercer faculty member, and written reflection. In addition, students may be required to attend training events, workshops or weekly seminars. This course may be repeated for a total of 9 hours and does not count towards a major or minor in Philosophy. Graded S/U. (Every year)

PHI 401. Senior Seminar (2 hours)
Prerequisite: PHI 301, PHI 311, and two additional Philosophy courses, Senior status, declared major in philosophy
This course is a workshop in philosophical skill development, including essay writing, thesis and argumentation development, critical thinking, and presentation. Students will work together, with faculty, and with juniors from the Junior Seminar (see PHI 301) to complete and present their Comprehensive Exam and Honors Thesis (if applicable) in philosophy. Senior seminar also will involve preparing for and attending talks by guest lecturers and/or attending off-campus philosophy-related events. (Every fall semester)

PHI 420. Directed Independent Research (1-3 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. Variable credit 1-3 hours, not to exceed 3 hours total. (By special arrangement)

PHILOSOPHY, POLITICS AND ECONOMICS

Charlotte Thomas, Director/Professor

The Philosophy, Politics, and Economics (PPE) major offers students an interdisciplinary approach to the study of topics, texts, and concerns that exist at the intersection of these three fields (e.g., theories of justice, rights, freedom, individual liberty, property, etc.). The program creates an intentional constellation of courses in these three disciplines that is designed to enrich the students' experience of each discipline and offer a breadth of study not available in any one disciplinary major.

Besides providing a framework within which students interested in these three disciplines can develop a sense of their interrelations, the program will facilitate the development of a better perspective of the boundaries and scope of these disciplinary approaches. For example, in economics coursework a student will learn the principles of markets and how they display the effects of various incentive structures. The same student, in her political science coursework may begin to understand the political context in which such markets operate. And, from philosophy, the PPE student would learn some of the long, rich tradition of theories that ground both political and economic approaches to understanding the human condition, as well as explore the ethical implications of political and economic action.

This 39 credit-hour major consists of a 9-course (27 credit-hour) PPE core, 3 elective courses (9-credit hours) to be taken in any one of the PPE disciplines (PHI, POL, or ECN), and a Senior Thesis (3 credit hours) on a topic approved by a committee of PPE faculty members. Students pursuing the PPE major must have at least 18 hours in one PPE discipline (including courses in the PPE core). Other courses relevant to PPE may be substituted for electives by approval of the student's PPE faculty committee.

Successful completion of the PPE major fulfills the CLA Additional Depth of Understanding requirement and leads to a BA degree.

Students declaring a major in PPE must form a committee of three faculty members (one from each PPE discipline) to coordinate their curriculum. One of these faculty members will become the advisor to the student's senior thesis, and all three committee members will confer on all decisions relevant to that student's course of study (e.g., senior thesis topics, judgments regarding whether or not a particular course should be allowed to substitute for a PPE elective, etc.)

PPE Core:
- ECN 150, 151, 160, or 177
- ECN 477 (History of Economic Thought)
- ECN 437, 438, or 441
- PHI 190 or 195
- PHI 230
- PHI 311 or 314
- POL 101 or 253
- POL 200
- POL 373 or 378

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PHOTOGRAPHY

For a description of the requirements for the minor in PHOTOGRAPHY, see the heading ART in this catalog.

PHYSICAL EDUCATION AND HEALTH (PED)

Up to three hours credit may be applied toward graduation from the College of Liberal Arts, the Stetson School of Business and Economics, or the Tift College of Education from the following courses in athletics, fitness, health, and outdoor activities. Beginner-level courses are not appropriate for experienced athletes; and the availability of intermediate and/or advanced courses will vary. Students can take multiple PED courses with the same course number as long as the topics differ. These courses will be graded on an S/U basis.

**PED 141-142-143. Athletics (Topic) (1 hour)**
Beginner, intermediate, and advanced courses on various sports. Course topics include: tennis, golf, archery, volleyball, bowling, and basketball. (Every semester)

**PED 151-152-153. Fitness (Topic) (1 hour)**
Beginner, intermediate, and advanced courses on various physical fitness activities. Course topics include: aerobics, body development and conditioning, dancing, martial arts, Mercer R.A.W. challenge course, and running. (Every semester)

**PED 161-162-163. Health (Topic) (1 hour)**
Beginner, intermediate, and advanced courses on various health topics. Course topics include: first aid and life-saving. (Occasionally)

**PED 171-172-173. Outdoors (Topic) (1 hour)**
Beginner, intermediate, and advanced courses on various outdoor activities. Course topics include: swimming, canoeing, scuba-diving, and hiking. (Occasionally)

PHYSICS (PHY)

Jose Balduz, Chair/Assistant Professor
Sheng-Chiang Lee and Matthew Marone, Associate Professors
Nicholas Hollingshad, Visiting Assistant Professor of Physics

The department offers physics majors leading to the B.S. and B.A. degrees and a minor in physics. 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 Physics major leading to the Bachelor of Science degree is appropriate for those wishing to immediately gain professional employment as a physicist with industry or government, or to continue their education in a physics graduate program. It consists of at least 40 credit hours of physics, which must include PHY 161/162,* 300 (twice), 305, 306, 330, 340, 355, 450, and at least four other physics courses numbered above 300. In addition, MAT 191/192 (Calculus), MAT 293 (Multivariable Calculus) and MAT 330 (Introduction to Differential Equations), and CHM 111/112 (General Chemistry) are required. Successful completion of a senior comprehensive examination is also required. Additional coursework in mathematics is recommended but not required: MAT 340 (Linear Algebra), which together with its prerequisite, either MAT 225 or MAT 260, will complete a minor in mathematics.
The Physics major leading to the Bachelor of Arts degree is appropriate for those wishing to prepare for science teaching in secondary schools, or to increase the breadth of their education with a second major. It consists of at least 27 credit hours in physics, which must include PHY 115, 161/162,* 300 (twice), 305, 306, and at least three other physics courses numbered above 300. In addition, MAT 191/192 (Calculus), MAT 293 (Multivariable Calculus) and MAT 330 (Introduction to Differential Equations), and CHM 111/112 (General Chemistry) are required. Successful completion of a senior comprehensive examination is also required.

A minor in physics consists of at least 15 credit hours in physics, which must include PHY 161/162,* and at least three other physics courses numbered 300 or above. Note that PHY 300 may only be counted once toward the physics minor. The courses MAT 191/192 (Calculus) are required for the physics minor.

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. Physics majors should ideally complete MAT 191/192 and PHY 161/162 during the freshman year, and PHY 305/306 and MAT 293/330 during the sophomore year.

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.

(*) A substitution is allowed: Students who have successfully completed PHY 141 and MAT 191 may be admitted to PHY 162 by instructor approval. If they successfully complete PHY 162, these students may thereafter enroll in other physics courses with a PHY 162 prerequisite, as well as pursue majors or minors in physics, replacing the PHY 161 requirement with PHY 141. Note that this does not affect requirements imposed by other departments and schools, e.g. the requirement that mathematics, chemistry, and most engineering students must take one year of calculus-based physics.

Secondary Teacher Certification Program in Physics

Teacher certification in Physics (6-12) is available to Physics (B.A. or B.S. program) majors. Physics B.A. students will need to include PHY 330, and either PHY 370 or 460 in their list of physics electives. They will also need to include BIO 211/212, and either STA 126 or MAT 320 as part of their degree studies. Physics B.S. students will need to include either PHY 370 or 460 in their list of physics electives. They will also need to include BIO 211/212, either STA 126 or MAT 320, and either PHY 115, ENB 105, ENB 110 or ENB 220 as part of their degree studies. Students planning to teach Physics in secondary schools should notify their advisor and contact the secondary education advisor in Tift College of Education. Required courses in education include EDUC 210, 220, 256, 283, 357, 398, 399, 406, 423, 469, 476, 485, and 492. Please consult the Tift College of Education section of this catalog for more details. Georgia Professional Standards Commission approval of this new certification is still pending.

PHY 102. Acoustical Foundations of Music (4 hours)
A one-semester introductory course for non-science majors. This course will examine music and sound from a scientific point of view focusing on waves and frequencies, as well as notes and scales. Students will be introduced to the topics of sound waves, propagation of sound, frequency, harmonics, waves on strings and in tubes, effects due to the listening environment, perception and synthesis of music. Three hours of lecture and three hours of lab per week. (Every two years)
PHY 105. Discovering the Wonders (4 hours)
A one-semester introductory course for non-science majors. This course explores the physical principles behind daily observed phenomena through hands-on experience, scientific reasoning, and discussions in collaborative and small group settings. This course does not intend to cover introductory physics content at a lower mathematical level, but aims to cultivate genuine curiosity about the natural world in students and recognize the relevance of scientific reasoning in public and personal aspects of modern lives. Three hours of lecture and three hours of lab per week. (Every two years)

PHY 108. Ancient Chinese Science and Technology (4 hours)
An overview of ancient Chinese science and technological innovations. A wide range of topics including astronomy, optics, acoustics, magnetism, mathematics and physical science will be covered. These topics are examined in both their historical Asian and modern science contexts. Three hours of lecture and three hours of lab each week. (Every other year)

PHY 109. Science of Heaven and Earth (4 hours)
A one-semester introductory course for non-science majors. This course explores the evolution of cosmology into a science, from ancient times to the modern era, to illustrate how our knowledge of the natural world grows as this pursuit becomes more scientific. Course material includes general properties of science, conceptual physics content and problem-solving at the level of basic algebra and geometry. Students will learn what distinguishes science from non-science and pseudo-science. Three hours of lecture and three hours of lab per week. (Every two years)

PHY 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. (Every semester)

PHY 141. Introductory Physics I (4 hours)
Prerequisite: MAT 133.
Algebra-based physics: motion, forces, mechanical and heat energy. Three hours of lecture and three hours of lab per week. (Every semester)

PHY 142. Introductory Physics II (4 hours)
Prerequisite: PHY 141.
Continuation of PHY 141: electrostatics, electric currents, dc circuits, magnetism, waves and optics. Three hours of lecture and three hours of lab per week. (Every year in spring)

PHY 161. General Physics I (4 hours)
Pre- or co-requisite: MAT 191.
Physics with calculus for majors in the physical sciences and engineering: motion, forces, energy, momentum, rotations, oscillations and heat. Three hours of lecture and three hours of lab per week. (Every semester)

PHY 162. General Physics II (4 hours)
Pre- or co-requisite: MAT 192.
Prerequisite: PHY 161.
Continuation of PHY 161: electrostatics, electric currents, dc and ac circuits, magnetism, waves and optics. Three hours of lecture and three hours of lab per week. (Every semester)
PHY 198. Special Introductory Topics in Physics (Subtitle) (1-4 hours)
Study of an introductory topic in Physics not covered in any of the departmental offerings. Students are required to engage in projects or assignments requiring at least one contact hour per week for every hour of credit. This course may not be applied to the Physics major or minor. (Occasionally)

PHY 300. Physics Seminar (1 hour)
Prerequisites: 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 and one credit hour toward the physics minor. (Every semester)

PHY 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 Schröedinger equation, atomic and molecular structure, classical and quantum statistics, solid state physics, lasers, and superconductors. (Every year)

PHY 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. (Every year)

PHY 320. Topics in Physics (Subtitle) (1-4 hours)
Prerequisite: to be determined by the instructor.
Study of a topic of current importance not covered in other department course offerings. May be repeated with different subtitles and used to satisfy major or minor requirements any number of times. (Occasionally)

PHY 325. Physical Optics (3 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. Two hours of lecture and a 3-hour laboratory per week. (Every three years)

PHY 330. Thermal Physics (3 hours)
Prerequisites: PHY 162, MAT 293, and MAT 330.
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. (Every two years)

PHY 335. Solid State Devices (3 hours)
Prerequisites: MAT 192 and PHY 162.
Exploration of the physics of solid state devices, including transistors and LEDs, basic properties of conduction in solids, simple quantum mechanics, crystal structures, solid state chemistry and electronic circuits. Two hours of lecture and a 3-hour laboratory per week. (Every two years)

PHY 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. (Every two years)
PHY 355. Electromagnetic Theory (3 hours)  
Prerequisites: MAT 293, MAT 330, and PHY 162.  
Electrostatics, magnetostatics, electrodynamics, Maxwell's equations, electromagnetic waves. (Every two years)

PHY 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. (Every three years)

PHY 370. Experimental Physics (3 hours)  
Prerequisite: MAT 192 and PHY 162.  
Introduction to experimental techniques including computerized data acquisition, data analysis, analog and digital electronics and instrumentation. Students will also learn the LabVIEW programming language. Two hours of lecture and a 3-hour laboratory work per week. (Every two years)

PHY 385. Computational Physics (3 hours)  
Prerequisites: MAT 192 and PHY 162.  
Introduction to the use of computing to solve physics problems and to methods of efficient communication of these solutions. Topics include: LaTeX, computer algebra systems, computer programming and introduction to numerical methods. Two hours of lecture and a 3-hour computer laboratory per week. (Every three years)

PHY 398. Internship in Physics (1-3 hours)  
Prerequisites: junior or senior status  
An intensive practicum experience at an approved business, organization, or academic institution. Senior level students, under the direction of a faculty member and an on-site, agency supervisor are required to engage in projects or assignments requiring at least three, on-site hours per week for every hour of credit. Students will learn through observation, regular discussions with the on-site supervisor and Mercer faculty member, and written reflection. In addition, students may be required to attend training events, workshops or weekly seminars. This course may be repeated for a total of 9 hours and does not count towards a major or minor in Physics. Graded S/U. (Every year)

PHY 420. Advanced Topics in Physics (Subtitle) (1-4 hours)  
Prerequisite: to be determined by the instructor.  
Study of a topic in greater depth than in other department course offerings, or an advanced topic of current importance not covered in other department course offerings. May be repeated with different subtitles and used to satisfy major or minor requirements any number of times. (Occasionally)

PHY 430. Nonlinear Physics (3 hours)  
Prerequisite: PHY 340.  
This course discusses nonlinear phenomena in physical systems and how these nonlinear effects are analyzed. Two hours of lecture and a three-hour lab per week. (Every three years)

PHY 450. 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 discrete and continuous physical systems, and philosophical implications of quantum mechanics will be investigated. (Every two years)
PHY 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. (Occasionally)

POLITICAL SCIENCE (POL) AND LAW AND PUBLIC POLICY (LPP)

Will Jordan, Chair/Associate Professor
Eimad Houry, Professor
J. Christopher Grant and Lori A. Johnson, Associate Professors
Bryan C. Williams, Assistant Professor

The Department of Political Science and Law and Public Policy offers a wide range of courses in American government and politics, comparative government and politics, international politics, and political theory. The curriculum 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 33 semester hours, including POL 101, POL 200, POL 253 or POL 270, POL 295, and a three-hour capstone requirement. The six remaining courses are to be selected from among courses numbered up to 392, and distributed across the three fields listed below as follows: one course from each field and the three remaining courses selected from any of the three fields of study. At least eighteen hours (six courses) must come from courses numbered between 300 and 392.

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, 151, or 160, 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.

Majors in Political Science may satisfy their capstone and honors requirements by successfully completing one of the following options (at least 3 credit hours):

A. **Option I: Students Eligible for Departmental Honors:** Must have 3.5 GPA overall, 3.6 in the major, must write an original research paper, which must also be presented at a scholarly conference (on or off the campus). Requires enrollment in POL 496.

B. **Option II: Senior Research Paper:** Available to Honor students (as defined under option 1) and other POL majors invited by a faculty member in the Department of Political Science. Requires enrolling in POL 496.

C. **Option III: Internship:** Pre approved and completed under the supervision of a faculty member of the Department of Political Science. This experience must comply with the internship guidelines specified by the Department of Political Science. Requires enrollment in POL 490.
D. **Option IV: Study Abroad:** Can be fulfilled through (1) a term long experience; or (2) a Mercer on Mission, or summer study abroad program, that includes a POL course; or (3) two short-term faculty-led study abroad trips that include POL courses.

E. **Option V: Senior Project:** An independent project of significance selected and completed under the supervision of a faculty member in the Department of Political Science. Specific guidelines are available separately from the department. Requires enrolling in POL 493.

A minor in political science requires a total of 18 hours, including POL 101, POL 200, POL/IAF 253 or POL 270, and three courses between 300 and 392, provided at least one course is taken from each of the three fields of study listed below.

Students with a strong interest in global affairs, and those wishing to take a more interdisciplinary approach to the study of government, should consider the major in International Affairs (IAF).

**COMPOSITION OF FIELDS IN THE MAJOR**

**FIELD I, STUDIES IN AMERICAN POLITICS**
- POL 330. Race and Politics
- POL 332. Women, Law and Politics
- POL 333. Southern Politics
- POL 335. Congress and the Legislative Process
- POL 336. Campaigns and Elections
- POL 337. U.S. Legal System
- POL 339. The Presidency

**POL 345. Environmental Politics and Social Justice**
- POL 349. Constitutional Law: Civil Rights and Liberties
- POL 351. US Foreign Policy

**POL 390. Special Topics in American Politics**

**FIELD II, POLITICAL THOUGHT**
- POL 373. American Political Thought
- POL 377. Classical Political Thought
- POL 378. Modern Political Thought
- POL 379. Contemporary Political Thought

**POL 391. Special Topics in Political Thought**

**FIELD III, STUDIES IN INTERNATIONAL AND COMPARATIVE POLITICS**
- POL 310. Western European Political Systems
- POL 312. Politics of Developing Nations
- POL 313. Middle East Politics
- POL 314. Women in Developing Countries
- POL 354. Principles of International Law
- POL 355. International Conflict and Security
Secondary Teacher Certification Program in Political Science

Teacher certification in political science (6-12) is available to political science majors. Students planning to teach government and civics in secondary school should notify their advisor and contact the secondary education advisor in Tift College of Education. Required courses in education include EDUC 210, 220, 256, 283, 357, 398, 399, 406, 430, 469, 476, 485, and 492. Please consult the TIFT COLLEGE OF EDUCATION section of this catalog for more details. This certification is approved by the Georgia Professional Standards Commission.

POL 101. Introduction to American Government (3 hours)
A study of the structure, organization, power and procedure of the workings of the American government and political process. This course helps students gain an understanding of our society by looking at political institutions, groups, movements and the role of the individual in the democratic process. Students are presented with opportunities to critically assess the political framework and the alternative solutions presented to address some of the most pressing issues facing the American public. (Every semester)

POL 198. Special Introductory Topics in Political Science (Subtitle) (3 hours)
Study of an introductory topic in Political Science not covered in any of the departmental offerings. This course may not be applied to the Political Science major or minor. (Occasionally)

POL 200. Introduction to Political Theory (3 hours)
This course is designed for political science majors and non-majors alike. It introduces students to major thinkers and themes that have shaped our thinking about politics. While the course may include authors from any period in the history of political thought, the guiding purpose is the illumination of contemporary theoretical divisions. (Every semester)

POL 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. (Every semester)

POL 270. Introduction to Comparative Politics (3 hours)
Comparative politics is an approach that examines political units, structures and practices across countries. This course introduces students to important concepts in comparative politics such as democratization, the state, institutions, political culture, civil society, political economy, and incorporate these into comparative analysis of the domestic politics of various countries from around the globe. (Every year)

POL 295. Introduction to Political Science Research (3 hours)
Prerequisite: POL 101 or 200 or 253, or consent of the instructor.
The purpose of this course is to train students in how to analyze political phenomena in a rigorous and scientific manner. This knowledge requires an understanding of two different components: research design and statistics. In the first component, students will learn how to discriminate between theories, pose proper research questions, construct a relevant
hypothesis, make valid causal inferences, operationalize concepts, and test their hypotheses. The latter component offers the student a 'statistical toolbox' to use as s/he pursues the scientific study of all things political. (Every semester)

**POL 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. (Every two years)

**POL 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. (Every two years)

**POL 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. (Every two years)

**POL 314. Women in Developing Countries (3 hours)**
*Same as WGS 314*
Prerequisite: POL 253/IAF 253.
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. (Every two years)

**POL 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. (Every two years)

**POL 332. Women, Law and Politics (3 hours)**
*Same as WGS 332*
Prerequisite: POL 101 or consent of instructor.
This course examines the legal and political efforts of women to obtain equality in American society. The course focuses on 1) the landmark legal cases and the important political milestones on the path towards full gender equality; 2) the challenges facing women seeking leadership roles in politics and society; 3) the actual and potential impacts women have on political institutions and policy outcomes; and 4) current public policy areas that have a significant impact on the lives of women and girls. (Every two years)

**POL 333. Southern Politics (3 hours)**
Pre-requisite: POL 101 or consent of instructor.
A survey of the politics of the southern states with emphasis placed on recent political trends, prominent personalities, and unique cultural attributes. Attention is given to the implications of federal policy on the southern states in the areas of civil and voting rights as well as on state and local government structures with Georgia serving as a primary case study. (Every two years)
POL 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. (Every two years)

POL 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. (Every two years)

POL 337. U.S. Legal System  (3 hours)
Prerequisite: POL 101 or consent of instructor.
A legal system is an integral part of a nation's political system. It provides mechanisms for resolving individual and group conflicts, for implementing and reformulating public policies, for regulating the struggle for economic power and for holding political and economic processes to certain standards of fairness. (Every two years)

POL 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. (Every two years)

POL 345. Environmental Politics and Social Justice  (3 hours)
(Same as AFR/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. (Every two years)

POL 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. (Every year)

POL 349. Constitutional Law: Civil Rights and Liberties  (3 hours)
Prerequisite: POL 101 or consent of instructor.
An examination of the individual's constitutional rights. (Every year)

POL 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. (Every two years)

POL 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. (Every two years)
POL 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. (Every two years)

POL 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. (Every two years)

POL 356. The Politics of International Economic Relations (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. (Every two years)

POL 373. American Political Thought (3 hours)
Prerequisite: POL 200 or consent of instructor.
A survey of the major thinkers who have influenced the development of political ideas in America. Thinkers examined may include Jefferson, Hamilton, Madison, Tocqueville, Frederick Douglass, Lincoln, Wilson, Croly, Dubois, Dewey and King. In addition to the writings of such statesman and political theorists, novels might be consulted for their depictions of American political culture. (Every two years)

POL 377. Classical Political Thought (3 hours)
Prerequisite: POL 200 or consent of instructor.
A survey of the political thought of the ancient and medieval worlds. Here we examine important early attempts to identify the way of life most consistent with human nature and with the nature of the world. Although the course will focus on the writings of Plato and Aristotle, other thinkers may be examined, including Thucydides, Aristophanes, Xenophon, Cicero, St. Augustine, Alfarabi, and Aquinas. (Every two years)

POL 378. Modern Political Thought (3 hours)
Prerequisite: POL 200 or consent of instructor.
A survey of the political thought of the modern world: from Machiavelli to the nineteenth century. Important themes include the break with antiquity, the defense of democratic forms and the modern state, the relationship between freedom and equality, and the character of modern citizenship. Thinkers examined may include Machiavelli, Hobbes, Locke, Montesquieu, Rousseau, Hume, Kant, Burke, Hegel and Mill. (Every two years)

POL 379. Contemporary Political Thought (3 hours)
Prerequisite: POL 200 or consent of instructor.
An examination of the ideas that shaped twentieth-century political theory and practice. This course will cover the competing visions of modern liberalism as well as the major theoretical challenges offered from the Left and Right. Thinkers examined may include Marx, Nietzsche, Hannah Arendt, John Rawls, Robert Nozick, and Michael Sandel. (Every two years)
POL 390. Special Topics in American Politics (3 hours)
Prerequisite: consent of instructor.
A seminar involving intensive study of a major American political or legal topic. May be repeated with different topics. (Occasionally)

POL 391. Special Topics in Political Thought (3 hours)
Prerequisite: consent of instructor.
A seminar involving intensive study of political ideologies or thought. May be repeated with different topics. (Occasionally)

POL 392. Special Topics in International and Comparative Topics (3 hours)
Prerequisite: consent of instructor.
A seminar involving intensive study of a major international or comparative topics. May be repeated with different topics. (Occasionally)

POL 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. (Occasionally)

POL 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. (Occasionally)

POL 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. (Every year)

POL 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. (Occasionally)

LAW AND PUBLIC POLICY (LPP)

Lori Johnson, Director/Associate Professor of Political Science

The Political Science Department also offers a major in Law and Public Policy that allows students to combine law and public policy classes, with an emphasis on ethics. Many students are concerned about important challenges that face our society in the future such as climate change, availability of health care, budget deficits or the prevalence of terrorism. When courts, executives, agencies or legislatures are involved in trying to address such social problems, we call what they do “public policy.”

Students who major in Law and Public Policy will develop the skills in analysis, critical thinking, problem-solving, oral communication, writing and research needed to address these kinds of public policy issues. The major is not a “pre-law track” in the sense that stu-
dents considering law school are required to take any of these courses. This major is, however, particularly well-suited for students who intend to pursue professional or career interests in policy-related fields such as law, government, public administration, health care or work with non-governmental organizations and non-profit groups.

The completion of the interdisciplinary major in Law and Public Policy fulfills the CLA Additional Depth of Understanding requirement and leads to the B.A. degree. Students seeking a major in Law and Public Policy will complete a total of 45 hours, comprising the following requirements:

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ECN 150 or 151: Principles of Microeconomics or Macroeconomics*</td>
<td>3</td>
</tr>
<tr>
<td>LPP 244 (POL 244): Law, Public Policy, and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>LPP 400: Practicum Seminar</td>
<td>3</td>
</tr>
<tr>
<td>LPP 401: Research Seminar</td>
<td>3</td>
</tr>
<tr>
<td>PHI 180: Logic and Language*</td>
<td>3</td>
</tr>
<tr>
<td>PHI 195: Introduction to Ethics</td>
<td>3</td>
</tr>
<tr>
<td>POL 101: American Government*</td>
<td>3</td>
</tr>
<tr>
<td>POL 295: Research Methods</td>
<td>3</td>
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<tr>
<td>POL 337: U.S. Legal System</td>
<td>3</td>
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<tr>
<td>POL 348 or POL 349: Constitutional Law</td>
<td>3</td>
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</tbody>
</table>

* May also be taken to satisfy Foundational Studies requirements

**Elective Courses**

Five courses (15 Credit Hours) from the following three fields, including at least one course from each field and at least 12 hours must be completed at the 300 level or above.

**LAW**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>BUS 346.</td>
<td>Legal, Ethical and Regulatory Environment of Business</td>
</tr>
<tr>
<td>ECN 437.</td>
<td>Law and Economics (Prerequisites: ECN 150 and 151)</td>
</tr>
<tr>
<td>JMS 401.</td>
<td>Media Law</td>
</tr>
<tr>
<td>LPP 390.</td>
<td>Special Topics in Law</td>
</tr>
<tr>
<td>PHI 235.</td>
<td>Philosophy of Law</td>
</tr>
<tr>
<td>PHI 237 (WGS 237)</td>
<td>Gender, Philosophy, and Law</td>
</tr>
<tr>
<td>POL 332.</td>
<td>Women, Law and Politics</td>
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<tr>
<td>POL 348.</td>
<td>Constitutional Law: Federalism and Separation of Powers (if not taken in Core)</td>
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<tr>
<td>POL 349.</td>
<td>Constitutional Law: Civil Rights and Liberties (if not taken in Core)</td>
</tr>
<tr>
<td>POL 354.</td>
<td>International Law (Prerequisite: POL/IAF 253)</td>
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<tr>
<td>SOC 367.</td>
<td>Law and Society (Prerequisite: SOC 101 or CRJ 260)</td>
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</table>

**PUBLIC POLICY**

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<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ENV 305.</td>
<td>Environmental Policy</td>
</tr>
<tr>
<td>GHS 350.</td>
<td>Global Health Policy (Prerequisite: GHS 200)</td>
</tr>
<tr>
<td>LPP 391.</td>
<td>Special Topics in Policy</td>
</tr>
<tr>
<td>POL 314 (WGS 314)</td>
<td>Women in Developing Countries (Prerequisite: POL/IAF 253)</td>
</tr>
<tr>
<td>POL 335.</td>
<td>Congress and the Legislative Process</td>
</tr>
<tr>
<td>POL 345 (SOC 345)</td>
<td>Environmental Politics and Social Justice</td>
</tr>
</tbody>
</table>
POL 351. American Foreign Policy
POL 352. U.S. National Security Policy
POL 356. The Politics of International Economic Relations (Prerequisite: POL/IAF 253)
POL 355. International Conflict and Security (Prerequisite: POL/IAF 253)
SOC 295 (AFR 295) Social Inequality: Ethnic Minorities (Prerequisite: SOC 101)

ETHICS
CHR 330. Approaches to Christian Ethics (Prereq – CHR 101 or 150)
CHR 335. Christian Ethics in America (Prereq – CHR 101 or 150)
ENV 344. Environmental Ethics
JMS 401. Media Ethics
LPP 392. Special Topics in Ethics
PHI 295 Applied Topics in Ethics
PHI 393 Advanced Topics in Ethics

A minor in Law and Public Policy requires 18 hours including at least 6 hours at the 300 level or above. A student must take LPP 244, POL 337, and four additional elective courses listed above (at least one course must come from the three fields.)

LPP 198. Special Introductory Topics in Law and Public Policy (Subtitle)
Study of an introductory topic in Law and Public Policy not covered in any of the departmental offerings. This course may not be applied to the Law and Public Policy major or minor. (Occasionally)

LPP 244. Law, Public Policy, and Ethics
This course provides an introduction to the interrelationship between law, public policy and ethics. By in-depth examination of a series of case studies, it provides an opportunity for exploration of the legal, political and ethical challenges raised by various public policy questions. (Every year)

LPP 290. Intercollegiate Mock Trial
Prerequisite: consent of the instructor.
Academic credit for those who actively participate in intercollegiate mock trial competitions. May be repeated for up to the 4 hours of credit. (Every semester)

LPP 337. U.S. Legal System
(Same as POL 337)
Prerequisite: POL 101 or consent of instructor.
A legal system is an integral part of a nation’s political system. It provides mechanisms for resolving individual and group conflicts, for implementing and reformulating public policies, for regulating the struggle for economic power and for holding political and economic processes to certain standards of fairness. (Every year)

LPP 390. Special Topics in Law
A study of a significant topic in law that is not available through other regular department offerings. May be repeated with different topics.

LPP 391. Special Topics in Public Policy
A study of a significant topic in Public Policy that is not available through other regular department offerings. May be repeated with different topics.
LPP 392. Special Topics in Ethics (3 hours)
A study of a significant topic in Ethics that is not available through other regular department offerings. May be repeated with different topics.

LPP 398. Internship in Law and Public Policy (1-3 hours)
Prerequisites: junior or senior status
An intensive practicum experience at an approved business, organization, or academic institution. Senior-level students, under the direction of a faculty member and an on-site supervisor, are required to engage in projects or assignments requiring at least three on-site hours per week for every hour of credit. Students will learn through observation, regular discussions with the on-site supervisor and Mercer faculty member, and written reflection. In addition, students may be required to attend training events, workshops or weekly seminars. This course may be repeated for a total of 9 hours and does not count towards a major or minor in Law and Public Policy. Graded S/U. (Every year)

LPP 400. Practicum Seminar (3 hours)
Prerequisites: LPP 244, LPP 337
This course should be taken Spring semester of the Junior year as part of a two-semester sequence with LPP 401, Fall semester of the Senior year. Each student will participate in a policy-related service learning project or internship and then we will meet as a class once a week to reflect together on the legal, policy and ethical questions raised by their experiences.

LPP 401. Research Seminar (3 hours)
Prerequisite: LPP 400
In the second course of this two-semester sequence, students will complete a major research project related to their internship or service learning project. The project will include policy analysis, legal research and examination of the ethical dimension of an issue they encountered in their service learning project or internship, resulting in a paper suitable for presentation at academic conferences.

PSYCHOLOGY (PSY)
Keegan D. Greenier, Chair/Associate Professor
Miranda Pratt, Professor
Ami L. Spears, and Tanya Sharon, Associate Professors
Jarred Jenkins and William J. Jenkins, Assistant Professor
Amy Borchardt, Instructor
Stephen Michael, Visiting Assistant Professor

The curriculum in the Psychology Department is designed to: (a) give the student a background in the philosophical, theoretical, and empirical aspects of the field; (b) develop the student's basic skills in critical thinking, reading, writing, speaking, computer use, and research; (c) emphasize the role of liberal education in enhancing personal and professional development; and (d) assure that students have the background experiences necessary to pursue graduate education.

The major in psychology leading to a B.A. degree consists of at least ten courses (31-32 hours), with additional courses required for the major in psychology leading to a B.S. degree (38-39 hours). All majors must take the following core courses: PSY 101, 150, 306, and 307. All majors must complete one course from each of the following groups: Group 1 (PSY 205, 210, 212, 215, 221, 225), Group 2 (PSY 230, 235, 240, 250, 260, 265, 270), a Lab course (PSY 310, 312, 318, 325, 326, 344, 385), and a Seminar (PSY 401, 410, 420,
PSY 285 may be used for either Group 1 or Group 2, depending on the topic and only with permission of the chair. Students intending to pursue graduate studies in psychology are encouraged to take PSY 401.

For a major in Psychology leading to a B.A. degree, majors must also complete (a) a Group 1 course, Group 2 course, Lab course, or an empirical project (PSY 490A and 490B; or PSY 496A and 496B); and (b) three additional hours in PSY. For a major in psychology leading to a B.S. degree, majors must also complete (a) an empirical project (PSY 490A and 490B; or PSY 496A and 496B); (b) STA 126, BIO 110, BIO 202, BIO 211, or BIO 212; and (c) six additional hours in PSY.

A minor in Psychology consists of five courses: PSY 101, PSY 306 and 307, one course from Group 1, and one course from Group 2.

Majors may attain Departmental Honors in Psychology by first filing an application to attempt honors with the chair. To be eligible to apply, the student must fulfill the following requirements: (a) have a minimum grade point average of 3.5 in all Psychology courses and a 3.0 overall grade point average; and (b) have completed at least three courses in Psychology, which must include PSY 101, 306, and one course from either Group 1 or 2. To earn Departmental Honors, the student must then (a) maintain a minimum grade point average of 3.5 in all Psychology courses and a 3.0 overall grade point average; and (b) complete PSY 496A and 496B, Honors Project in Psychology.

**PSY 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. (Every semester)

**PSY 150. The Psychology Major & Career** (1 hour)
Prerequisite: PSY 101.
An orientation course which serves to teach students about the many different subdisciplines within psychology (e.g., biological, clinical, cognitive, developmental, health, industrial, personality, social, and others). Students will learn about career options in these fields and what path through the Mercer Psychology major curriculum will best prepare them in their pursuit of their career goals. Graded S/U. (Every year)

**PSY 185. Special Topics: Writing in Psychology** (3 hours)
Prerequisite: INT 101. Must be co-enrolled in WRT 120.
This course is a special topics course which selects a psychological topic for critical analysis and extensive writing instruction. Through close examination of a variety of original sources and media, as well as writing (both formal and informal) in multiple genres with opportunities for revision, students will develop skills in critical thinking, writing, and scientific literacy. Students enrolled in PSY 185 must be co-enrolled in WRT 120. (Every year)

**PSY 205. Psychology of Learning** (3 hours)
Prerequisite: PSY 101.
This course will provide an overview of empirical and theoretical perspectives on learning. Topics will include classical and operant conditioning, observational learning and many applied extensions of the basic learning process. (Every year)

**PSY 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 divi-
sions of biopsychology - neuropsychology, psychopharmacology, psychophysiology, and physiological psychology - with an emphasis on their relationship to behavior. (Every year)

PSY 212. Drugs and Behavior (3 hours)
Prerequisite: PSY 101.
This course will provide an overview of the basic pharmacokinetics, pharmacodynamics, and behavioral outcomes of the major categories of drugs. Both licit and illicit drugs will be considered with particular emphasis on the most commonly used drugs in our society and those drugs that are associated with a high abuse potential. (Every year)

PSY 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. (Every year)

PSY 221. Health Psychology (3 hours)
Prerequisite: PSY 101 or GHS 200.
This course will explore theoretical and empirical approaches to studying the influence of thought, feeling, and behavior on physical health. The class will examine the mind-body problem and how physical health is influenced by personality, social relationships, stress, expectations, behavior, and emotion expression. (Every year)

PSY 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. (Every two years)

PSY 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. (Every year)

PSY 235. Industrial Psychology (3 hours)
Prerequisite: PSY 101.
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. (Every year)

PSY 240. Theories of Personality (3 hours)
Prerequisite: PSY 101.
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. (Every year)

PSY 245. Developmental Psychology (3 hours)
Prerequisite: PSY 101.
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. Students may not take this course if they have already received credit for PSY 250. (Every year)

PSY 250. Child & Adolescent Psychology (3 hours)
Prerequisite: PSY 101.
An overview of human development in infancy through adolescence, encompassing physical, cognitive, and socio-emotional changes. Introduces the major theories of development and explores their ability to accurately describe and explain normal development. Central issues (e.g., nature versus nurture, mechanisms of development) are also explored. Students may not take this course if they have already received credit for PSY 245. (Every year)

**PSY 260. Introduction to Clinical Psychology**  
(3 hours)  
Prerequisite: PSY 101.  
An overview of the concepts, methods, and issues involved in clinical psychology, including assessment procedures and intervention strategies from varying theoretical perspectives. (Every year)

**PSY 265. Abnormal Psychology**  
(3 hours)  
Prerequisite: PSY 240 or PSY 260.  
A survey of the major categories of behavior pathology, including a consideration of etiology, diagnosis, and treatment. (Every year)

**PSY 270. Psychology of Gender**  
(Same as WGS 270)  
(3 hours)  
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. (Every two years)

**PSY 285. Special Topics**  
(3 hours)  
Prerequisite: PSY 101.  
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. (Occasionally)

**PSY 290. Research Practicum.**  
(1-3 hours)  
Prerequisite: PSY 101 and permission of chair.  
An opportunity for students to become involved in and learn about psychological research. Students will assist faculty with existing research projects. This is designed to introduce students to the topics and techniques of conducting research in psychology. Graded S/U. Repeatable for a maximum of 6 credit hours. (Every semester)

**PSY 306. Research Methods and Statistics I**  
(4 hours)  
Prerequisite: PSY 101 and completion of the CLA Gen Ed math requirement.  
An introduction to the research methods and statistics used in psychological research. Topics include research ethics, sampling from populations, descriptive research and statistics, survey research, basic experimental design and hypothesis testing, and two-group designs and t-tests. Students will gain experience conducting literature reviews, reading empirical articles, using the SPSS statistical analysis software, and beginning writing APA-style manuscripts. (Every semester)

**PSY 307. Research Methods and Statistics II**  
(4 hours)  
Prerequisite: PSY 306.  
A continuation into more advanced study of psychological research methodologies and their associated statistical analyses. Topics include correlation and regression, multiple-group and factorial designs, quasi-experimental designs, Analyses of Variance, and non-parametric tests. Students will gain experience in formulating research hypotheses and writing all portions of formal APA-style manuscripts. (Every semester)
PSY 310. Biological Bases of Behavior (4 hours)
Prerequisite: PSY 307.
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. (Every two years)

PSY 312. Animal Behavior (4 hours)
Prerequisite: PSY 307.
This course seeks to describe and explain the causative and developmental factors that influence animal behavior at the level of the individual and social group. Considerations of the adaptive and evolutionary mechanisms underlying behavior will be stressed. Laboratory investigations and written reports of experimental findings are required. (Every two years)

PSY 318. Language (4 hours)
Prerequisite: PSY 307.
Examination of the area of Psycholinguistics. Addresses language processes from a research and theoretical perspective. Topics include, but are not limited to, reading and writing processes, bilingualism, word recognition, speech processes, and language development. Laboratory investigations and written reports of experimental findings are required. (Every two years)

PSY 325. Tests and Measurement (4 hours)
Prerequisite: PSY 307.
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. (Every year)

PSY 326. Behavior Modification (4 hours)
Prerequisite: PSY 307.
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. (Every two year)

PSY 344. Investigations in Developmental Psychology (4 hours)
Prerequisite: PSY 307.
Investigations into various central developmental issues across the lifespan, such as nature vs. nurture, attachment, resilience, identity, moral development, gender development, and aging. Laboratory investigations, research proposals, and written article critiques are required. (Every two years)

PSY 385. Special Topics (4 hours)
Prerequisite: PSY 307.
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. (Every year)

PSY 390. Field Placement (1-15 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 negoti-
ated with the faculty member involved and the agency supervisor. Graded S/U. (Every semester)

**PSY 401. History and Systems of Psychology (3 hours)**
Prerequisites: PSY 307 and one course from either Group 1 or Group 2.
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. (Every year)

**PSY 410. Social and Ethical Implications of Psychology (3 hours)**
Prerequisite: PSY 307 and one course from either Group 1 or Group 2.
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. (Every two years)

**PSY 420. Alternative Perspectives in Psychology (3 hours)**
Prerequisite: PSY 307 and one course from either Group 1 or Group 2.
A critical examination of humanistic, phenomenological, existential, and value-based perspectives in psychology. (Every two years)

**PSY 430. Group Dynamics (3 hours)**
Prerequisite: PSY 307 and one course from either Group 1 or Group 2.
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 intergroup conflict. (Every two years)

**PSY 485. Special Topics in Psychology (3 hours)**
Prerequisite: PSY 307 and one course from either Group 1 or Group 2.
An advanced study of psychological theories that is not available through other departmental course offerings. May be taken more than once (with different topics). (Occasionally)

**PSY 490a. Empirical Project in Psychology I (2 hours)**
Prerequisites: PSY 307 and one course from either Group 1 or Group 2.
The development and completion of an acceptable proposal for an empirical project on a psychological topic. The student will produce a formal manuscript and orally present the proposed empirical project. (Every semester)

**PSY 490b. Empirical Project in Psychology II (2 hours)**
Prerequisite: PSY 490a or PSY 496a.
The implementation and completion of the project proposed in PSY 490a. The student will produce a formal manuscript and orally present the results of this empirical project. (Every semester)

**PSY 495. Directed Independent Research (1-4 hours)**
Prerequisites: PSY 307 and one course from either Group 1 or Group 2.
Requirements include selection of a problem area, survey of relevant literature, research and report of these findings. Graded S/U. (Every semester)

**PSY 496a. Honors Project in Psychology I (2 hours)**
Prerequisites: candidate for departmental honors in psychology, PSY 307 and one course from either Group 1 or Group 2.
The student must make formal application to the departmental chair and, if approved, register for this course instead of 490a. The student then develops and completes an acceptable honors project prospectus for an empirical project on a psychological topic 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. (Every semester)

**PSY 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. (Every semester)

**SENIOR CAPSTONE PROGRAM (SCP)**

Paul Lewis, *Director/Associate Professor of Christianity*

Senior Capstone courses are interdisciplinary seminars focused on significant questions or issues beyond those explored elsewhere in the curriculum. Successful completion of a Senior Capstone course is a graduation requirement for College Liberal Arts students matriculating under a catalog prior to 2012-2013. Their purpose is to provide a "capstone" for the general education program and to encourage students' awareness of themselves as majors in their disciplines, of their vocation, and of their responsibilities as citizens. Seniors from different majors share and compare their perspectives and expertise and explore spiritual and ethical as well as intellectual values. Some courses require a service-learning component.

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 60 hours credit. Only one Senior Capstone may be counted as part of the minimum requirement for graduation.

**SCP 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. (Every year)

**SCP 451. Self and Community: Changing Responsibilities in a Changing World**

(3 hours)
An examination of the potential conflict of values as we seek integrity and fulfillment within personal relationships, civic and corporate life, and global interconnections. Particular attention will be given to finding a balance of personal and communal responsibilities in regard to such topics as: the impact of technological change, economic and political globalization, changing forms of democratic citizenship, the future of the city, the meaning of human and religious diversity, and the sanctity of life. (Every year)

**SCP 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. (Every year)

SCP 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. (Every year)

SCP 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. (Every year)

SCP 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 masculinity and femininity in the media and popular culture, to changing gender roles in the family and workplace, and to discrimination based on gender. (Every year)

SCP 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 humans have attempted through the ages to reconcile the reality of suffering with the search for fulfillment in human experience. (Every year)

SCP 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. (Every year)

SCP 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. (Every year)

SCP 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. (Every year)

SOCIAL ENTREPRENEURSHIP

For a description of the requirements for the minor in SOCIAL ENTREPRENEURSHIP, see the heading INTERNATIONAL AND GLOBAL STUDIES in this catalog.
SOCIOLOGY (SOC), INCLUDING ANTHROPOLOGY (ANT) CRIMINAL JUSTICE (CRJ) and GEOGRAPHY (GEO)

Fletcher Winston, Chair/Associate Professor
Natalie Bourdon, Director of Anthropology/Assistant Professor
Leona Kanter, Associate Professor
Bria Dunham and Eric K. Spears, Assistant Professors

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 provide students with a spatial perspective of socio-cultural landscapes; (3) to familiarize students with their social responsibilities as members of society; (4) to provide a basic foundation for advanced study and possible careers in sociology or social work, criminal justice, and anthropology; (5) 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 (27 hours) including SOC 101, 303, 304, and 405, as well as two additional electives and one course from each of the following areas:

1. Problems (SOC 210, 225, 295, 310, 313, 315, 322, 345, 360)
2. Structures (SOC 320, 321, 323, 325, 330, 335, 340, 367)
3. Special areas (SOC 390, 395, 490, ANT 201, CRJ 260, GEO 111)

At least 15 hours toward the major must come from courses numbered above 300.

A minor in sociology consists of a minimum of 15 hours, including SOC 101, 303, and 304.

A minor in anthropology consists of a minimum of 15 hours, including ANT 101 and 12 additional hours in Anthropology, six of which must number 300 or above.

The minor in criminal justice consists of 15 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 who would like to substantially develop a research project may apply to be an Ogburn Scholar by meeting the following requirements: (1) attain a minimum grade point average of 3.75 in sociology department courses (2) complete SOC 405 no later than by the end of the junior year (3) by the end of the junior year submit a research proposal to the department explaining the plan for substantial development of the project completed for SOC 405 (4) receive departmental approval for the enhanced research project, and (5) present the research paper at a department approved conference. Ogburn Scholars may wish to enroll in SOC 395 (3 hours).

(SOC 101 is a prerequisite to all 300- and 400-level SOC courses.)

SOC 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. (Every semester)

SOC 210. Social Problems (3 hours)
This course examines problems of social inequality, deviance, and social institutions in a local and global context. Some societal problems focused upon in the course include pover-
ty, racial discrimination, crime, academic performance, healthcare, and environmental
degradation. Students will explore the consequences of social problems and use sociologi-
cal theories to explain their persistence and define solutions. Students will engage in a
service-learning experience to help understand social problems by actively addressing
them. (Every year)

SOC 225. Social Movements (3 hours)
This course examines how college students and others in the community bring about social
change through movements such as those for environmental protection, civil rights, peace,
women's rights, and the alleviation of poverty. The class will explore social movement strat-
ology, participation in activist groups, and the ability of movement organizations to achieve
their goals. Types of movements (e.g. liberal and conservative), the role of traditional and
electronic media in mobilization, and coalitions between movement organizations are some
of the other topics examined in the course. (Every other year)

SOC 295. Social Inequality: Ethnic Minorities (3 hours)
(Same as AFR 295)
This course is designed to help students understand the theoretical base for the social
inequalities that manifest themselves among ethnic minority groups in America. In this
course, students will become aware of the nature of social differences in American society
and investigate a number of current theories that examine the basis for these differences.
(Every two years)

SOC 303. Main Currents of Sociological Thought (3 hours)
In an “obvious” way, society refers to the fact that people live together in groups and inter-
act socially. As friends or enemies, superiors or subordinates, in cooperation or conflict, peo-
ple associate with, and oriented to, one another. In a “non-obvious way” the discipline of
sociology is centrally concerned with the nature of relationships and their meaning for social
and personal social (dis)order. This course in sociological theory is designed to lead stu-
dents systematically through the intellectual traditions and competing analytical perspec-
tives that form the basis of our understanding of the relationship between the individual and
society and social structure and social change. (Every Year)

SOC 304. Introduction to Social Science Research Methods (3 hours)
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 litera-
ture, 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). (Every year)

SOC 310. Social Work (3 hours)
An historical and philosophical examination of social welfare services and social work prac-
tice. Attention is given to the societal and value context in which the American social wel-
fare system evolved and to the development of social work as a profession. (Every spring
semester)

SOC 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 influ-
ence 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. (Occasionally)
SOC 315. Aging in Contemporary Society (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. (Every fall semester)

SOC 320: Building a “Good” Society:
A Societal Simulation (SIMSOC) (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 using societal simulation software (SIMSOC). SIMSOC is used to: 1. gain insight into processes of large-scale conflict, protest, social control, and social change; 2. explore interpersonal feelings resulting from ethnic and class differences; and 3. explore the challenge of creating utopia. (Every year)

SOC 321. Globalization and Society (3 hours)
Prerequisite: GEO 111 recommended.
This course focuses on the processes of globalization (economic, political, and geographic) and the nature of their impact in modern societies. It examines sociological theories of globalization that relate to arguments of dependency, modernization, neo-colonialism, and cultural and civilizational clash. The course is centrally concerned with the unequal distribution of wealth and power for social cohesion and stability at different scales (global-local). (Every year)

SOC 322. Justice, Equality, and the Challenge of Disability (3 hours)
The course examines the social construction of disability within various cultural settings and historical periods. How do societies construct meanings about disability, cosmology, and personhood? The course examines how the social contexts of disability overlap with economy, history, and tradition. Students will develop a knowledge base, and critical and reflective conceptions of ethics and justice in the world with emphasis on the community of persons with disabilities. Service-learning practicum required. (Every two years)

SOC 323. Medical Sociology (3 hours)
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. (Every two years)

SOC 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. (Every year)

SOC 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. (Occasionally)
SOC 334. Marriage and Family: Diversity and Change (3 hours)
(Same as WGS 334)
Prerequisite: SOC 101 or WGS 180.
The course examines marriage and family structures emphasizing their changing roles in history. It focuses on the increasing diversity of contemporary family relationships (marital and non-marital) including the disorganization and re-organization of marital and family life. (Every two years)

SOC 340. Sociology of Religion (3 hours)
This course will review the history and meaning of a wide variety of western, eastern, and indigenous religions. In addition the course will deal with the social construction of religious life, new religious movements, religion and violence, and multicultural religious themes of tolerance. It will expose students to the forces that legitimate, sustain, and challenge religious systems of belief and ritual in the midst of our scientific- and technologically-oriented world. (Occasionally)

SOC 345. Environmental Politics and Social Justice (3 hours)
(Same as AFR/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. (Every two years)

SOC 360. Environmental Sociology (3 hours)
Prerequisite: ENB 150 or SOC 101.
This course uses the sociological perspective to examine environmental problems on the local, national, and global level. It explores how culture and social institutions affect the environment as well as the distribution of environmental problems according to socio-economic conditions. This course also examines the environmental movement and its potential to address environmental problems. (Every two years)

SOC 367. Law and Society (3 hours)
(Same as CRJ 367)
Prerequisite: CRJ 260 or SOC 101.
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. (Every two years)

SOC 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. (Occasionally)

SOC 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. (Occasionally)
SOC 405: Empirical Project (3 hours)
Prerequisite: SOC 304.
In this course, students will choose a topic to investigate, review the literature on the subject, design the research methodology, and collect and analyze the data. Students will prepare a research paper and present their findings at the Sociology Department's Social Research Conference. Students will also have the opportunity to present their research findings at the Southern Sociological Society Annual Meeting and the Mercer Undergraduate Research Symposium. (Every Year)

SOC 490: Internship Program in Sociology (1-3 hours)
Prerequisites: junior or senior status.
An intensive practicum experience at an approved business, organization, or academic institution. Senior-level students, under the direction of a faculty member and an on-site supervisor, are required to engage in projects or assignments requiring at least three on-site hours per week for every hour of credit. Students will learn through observation, regular discussions with the on-site supervisor and Mercer faculty member, and written reflection. In addition, students may be required to attend training events, workshops or weekly seminars. This course may be repeated for a total of 3 credit hours and counts towards a major or minor in Sociology. (Every year)

ANTHROPOLOGY (ANT)

(ANT 101 or consent of instructor is required for all 300-level anthropology courses.)

ANT 101. Introduction to General Anthropology (3 hours)
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. (Every semester)

ANT 198. Special Introductory Topics in Anthropology (Subtitle) (3 hours)
Study of an introductory topic in Anthropology not covered in any of the departmental offerings. This course may be applied to the Anthropology minor. (Occasionally)

ANT 250. Becoming Chinese: Self and Society (3 hours)
This course introduces students to Chinese thought about selfhood and society. The course will examine some broad foundations for Chinese thinking about the self and others from the perspectives of Confucianism, Buddhism, and Daoist writing. Through the exploration of such themes as holism, aesthetics, rationality, the relational self, and ancestor worship, the course will explore Chinese conceptions of self-in-society. (Every Two Years)

ANT 350. Cultural Anthropology (3 hours)
An analysis of the cultural 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. (Every year)

ANT 352. Cultures of the Americas (3 hours)
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. (Every two years)
ANT 354. Cultural Archaeology (3 hours)
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. (Every two
years)

ANT 356. Archaeology of the Goddess (3 hours)
An examination of the existence of feminine deity through evidence offered by the prehistori-
cal archaeological record and origin mythologies. The dynamics of cultural change are
explored in tracing the rise of patriarchal religion. (Every two years)

ANT 361. Archaeology and Religion (3 hours)
(Same as CHR 361)
Prerequisite: permission of the instructor.
This course is designed to introduce students to: (1) the study of archaeology, (2) the study
of religion(s) in a particular region and period(s), and (3) the integration of the study of
archaeology and religion. Students will study the theories, objectives, methods, records, and
conclusions of modern archaeology. They will also learn how to apply these elements of
archeology to the study of a particular region. They will also study various aspects of a spe-
cific religion or groups of religions in the designated region, especially as that study is
informed by the investigation of archaeological remains. This course may involve archaeo-
llogical field work and may be offered on-site in another location (e.g. Greece). (Occasionally)

ANT 382. Biological Anthropology (3 credits)
(Same as BIO 382)
This lecture-based course represents an advanced introduction to the sub-discipline of
Biological Anthropology. The discussion will focus on the biological aspects of humans and
our closest living relatives, the primates. Specifically the course will include content on bio-
logical evolution, a review of living primates and a study of the extensive fossil evidence for
human evolution. The course will conclude with a review of modern human variation and the
faliibility of the human race concept. (Every two years)

ANT 390. Special Topics in Anthropology (3 hours)
Prerequisite: consent of instructor.
A study of some significant topic in anthropology that is not available through other depart-
mental course offerings. (Occasionally)

ANT 490. Internship in Anthropology (1-3 hours)
Prerequisites: junior or senior status
An intensive practicum experience at an approved business, organization, or academic
institution. Senior-level students, under the direction of a faculty member and an on-site
supervisor, are required to engage in projects or assignments requiring at least three on-
site hours per week for every hour of credit. Students will learn through observation, regu-
lar discussions with the on-site supervisor and Mercer faculty member, and written reflec-
tion. In addition, students may be required to attend training events, workshops or week-
ly seminars. This course may be repeated for a total of 3 hours and counts towards a minor
in Anthropology. Graded S/U. (Every semester)
CRIMINAL JUSTICE (CRJ)

(CRJ 260 is prerequisite to all other CRJ courses.)

CRJ 260. Criminal Justice System (3 hours)
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. (Every fall semester)

CRJ 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. (Every two years)

CRJ 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. (Occasionally)

CRJ 367. Law and Society (3 hours)
(Same as SOC 367)
Prerequisite: CRJ 260 or SOC 101.
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. (Every two years)

CRJ 368. Courtroom Justice (3 hours)
This course in Courtroom Justice focuses on courtroom rules, procedures and processes. It examines the rules of evidence and courtroom processes and procedures to determine if they further a system of justice or a system of arbitrary laws. The course includes such issues as jury selection, jury nullification, direct examination, cross examination, trial strategies, and just persuasion. It reviews the roles of prosecuting attorney, defense counsel and the trial judge in the conduct of criminal trials. (Every two years)

CRJ 369. Trials of the Century (3 hours)
Trials of the Century is the study of fifty of the most significant trials of the past one hundred years. The course focuses on the critical legal issues in each case and the importance of each trial from a social, cultural and political perspective. (Every two years)

CRJ 370. Criminal Law (3 hours)
The study of substantive criminal law, this course focuses on criminal culpability, defense to criminal culpability, sentencing issues, and the elements of felony and misdemeanor crimes including homicide, other crimes against persons, property, and the public order. (Every two years)

CRJ 372. Criminal Procedure (3 hours)
Criminal Procedure is the study of the processes and procedures of criminal law and the criminal justice legal system. The course includes the study of search and seizure, bail procedure, plea negotiations issues, trial procedures, charging, indictments, information and adversary systems, and special problems. (Every two years)

CRJ 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. (Every semester)
CRJ 490. Internship in Criminal Justice  (1-3 hours)
Prerequisites: junior or senior status
An intensive practicum experience at an approved business, organization, or academic institution. Senior-level students, under the direction of a faculty member and an on-site supervisor, are required to engage in projects or assignments requiring at least three on-site hours per week for every hour of credit. Students will learn through observation, regular discussions with the on-site supervisor and Mercer faculty member, and written reflection. In addition, students may be required to attend training events, workshops or weekly seminars. This course may be repeated for a total of 3 hours. Three credit hours in CRJ 490 are required of students pursuing a minor in Criminal Justice. (Every semester)

GEOGRAPHY (GEO)

GEO 111. Principles of Human Geography: Mapping Globalization’s Landscape  (3 hours)
The purpose of this course is to introduce students to the breadth of the discipline by exploring four themes in the geography of globalization: the social/cultural construction of place, relative location, the cultural landscape, and urbanization. The course includes several critical applied research topics, including the production of place, the relationship between core and peripheral regions, the transformation of traditional cultural landscapes, and the impacts of urbanization in developed and developing economies. (Every year)

GEO 198. Special Introductory Topics in Geography (Subtitle)  (3 hours)
Study of an introductory topic in Geography not covered in any of the departmental offerings. (Occasionally)

GEO 313. East Asia in Regional Context: China, Japan, and the Koreas  (3 hours)
The course examines modern developments in East Asia, namely China, Japan, and the Koreas. Major themes include urbanization; sub-regions and urban systems; political history, industrialization, migration, socio-ecological systems, and national relationships with globalization. Specific attention will be given to space, place, and culture throughout each theme. (Every Three Years)

SOUTHERN STUDIES (SST)

Sarah Gardner, Director/Professor of History
Doug Thompson, Associate Professor

A major 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 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 senior capstone experience in Southern Studies.

The successful completion of the SST major fulfills the CLA Additional Depth of Understanding requirement and leads to a B.A. degree. The Southern Studies major consists of ENG/SST 236, ENG 357 and 358, HIS 356, 361, 362, and 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 grade point average in their undergraduate program, achieving a minimum 3.5 grade point average in courses in the major, 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 members oversees the administration of the major.

**SST 198. Special Introductory Topics in Southern Studies (Subtitle) (3 hours)**
Study of an introductory topic in Southern Studies not covered in any of the departmental offerings. This course may be applied to the Southern Studies major or minor. (Occasionally)

**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. (Every year)

**SST 280. Special Topics in Southern Studies: (Subtitle) (1-3 hours)**
Prerequisite: to be determined by the instructor.
A study of some significant topic in Southern Studies that is not covered in the regular course offerings. May be repeated with different topics. (Occasionally)

**SST 380. Special Topics in Southern Studies: (Subtitle) (1-3 hours)**
Prerequisite: to be determined by the instructor.
A seminar involving reading and discussion of a specific topic in Southern Studies that is not covered in the regular course offerings. May be repeated with different topics. (Occasionally)

**SST 398. Internship in Southern Studies (1-3 hours)**
Prerequisites: junior or senior status.
An intensive practicum experience at an approved business, organization, or academic institution. Senior-level students, under the direction of a faculty member and an on-site supervisor, are required to engage in projects or assignments requiring at least three on-site hours per week for every hour of credit. Students will learn through observation, regular discussions with the on-site supervisor and Mercer faculty member, and written reflection. In addition, students may be required to attend training events, workshops or weekly seminars. This course may be repeated for a total of 9 hours and does not count towards a major or minor in Southern Studies. Graded S/U. (Every year)

**SST 480. Senior Seminar in Southern Studies (3 hours)**
A course designed to fulfill the exit requirement for students seeking a major 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 major. (Every third semester)

**STATISTICS (STA)**
For description of the program of study in this area, the requirements for the minor, and the courses offered, see the STATISTICS heading immediately following MATHEMATICS in this catalog.

**THEATRE (THR)**
For description of the program of study in this area, of the requirements for the major and the minor, and the courses offered, see the heading COMMUNICATION STUDIES AND THEATRE in this catalog.
UNIVERSITY PROGRAMS

The College of Liberal Arts offers a number of courses in support of University-wide curricular and co-curricular programs. Many of these courses are offered in conjunction with other Mercer University units. The co-curricular course areas include: Community Service and Leadership (CSL), Cooperative Education (CED), International Study Abroad (ISA), Learning Skills (LSK), Residence Life (RSL), Service Learning (SRV), and University Life (UNV). The course offerings for these programs are coordinated by the Associate Deans’ Office in the College of Liberal Arts.

COMMUNITY SERVICE AND LEADERSHIP (CSL)

Mary Alice Morgan, Director/Professor of English

The College of Liberal Arts prepares students for living as engaged and informed citizens by offering service-learning courses. In these interdisciplinary, community-based service-learning courses, students integrate concepts from a variety of classroom disciplines with the practical lessons of real-world service to become ethical, caring, inclusive leaders. Students connect course materials to experience in the community, combine theory and practice, and think in original ways about substantive challenges facing contemporary society. These leadership-development and service-learning opportunities are designed to complement any field of study and include a broad range of both domestic and international service-learning activities. These courses are open to students in any discipline within the College or in other Mercer colleges and schools.

The Community Service and Leadership courses and related programs, including the Social Entrepreneurship Program and Mercer Service Scholars, provide students with opportunities to serve, to connect with local and global communities, and to reflect on the service experience to better understand themselves, community needs, and their responsibility in advancing the common good. Faculty instructors from a range of disciplines including Engineering, Medicine, Law, the Humanities, the Natural and Social Sciences, Music, and Business guide students in building community-based research and service skills and knowledge as part of Mercer’s ongoing commitment to civic engagement.

Students interested in these courses and programs may also be interested in pursuing the Mercer Global Ambassador Program (GAP). Please consult this catalog for further information about the program.

CSL 199. Service Learning (1 hour)
(Same as SRV 199)
Corequisite: enrollment in a specially designated service-learning course section.
Students enrolled in specially designated service-learning sections commit to working at off-campus community-service sites. This work experience is tied to the learning objectives of the parent course and will entail additional academic work, as described by the course syllabus. Students receive one semester hour of credit, through CSL 199, for the additional academic work associated with three hours total (minimum one hour on site) of service-related work each week. The grade assigned for CSL 199 is the same grade assigned for the parent service-learning section. (As needed)

CSL 200. Service Learning in Local Communities: (Subtitle) (3 hours)
A course on a significant topic impacting the local community that is not available through other curriculum offerings. The course may focus on a specific topic such as poverty, housing and urban renewal, sustainable food, or human trafficking, in our local context and will employ a problem-solving approach to the subject.
This course also serves as an introduction to the practice and theory of service-learning, encouraging students to become active citizens now, as college students, not after graduation. Students will engage in local service-oriented activities beyond the classroom which may include: community-based research, internships, fieldwork, and other community-based enterprises and projects. Topics will vary and will be announced in advance. May be taken twice for credit. (Occasionally)

CSL 210. International Service-Learning  (Subtitle) (3 hours)
Designed for Mercer on Mission or other international service-learning experiences. The course will provide an introduction to the country where the service is being conducted, explore the topic of intercultural engagement, and introduce the principles of effective service-learning. May be taken multiple times for different international experiences. (Occasionally)

CSL 400. Practicum in Service-Learning (1- 15 hours)
Prerequisite: CSL 200 or 210, selected courses in SEP, or extensive service-learning coursework in the disciplines, with permission of CSL instructor.
This course offers students already familiar with community leadership and service the opportunity to pursue an independent service project, community-based research project, or internship under the supervision of a faculty member and community agency representative. May be taken once. (Every year)

COOPERATIVE EDUCATION (CED)

CED 190-290-390-490. Cooperative Education (1 hour)
Prerequisites: departmental approval and Office of Career Services approval; enrollment in cooperative education or internship program.
These courses award credit for successful enrollment in cooperative education or internship programs—one hour of credit per semester of enrollment. Students who are formally admitted into a cooperative education or internship program may be certified as full-time students during terms of employment for enrollment verification purposes. Work assignments for these programs are matched to the student's progress in the academic curriculum to provide a stimulating and challenging employment situation. This course is graded S/U. CED courses are jointly offered by the College of Liberal Arts and the Office of Career Services. (As needed)

INTERNATIONAL STUDY ABROAD (ISA)

The Office of International Programs offers a variety of programs to facilitate foreign educational experiences. These programs include semester-long and year-long exchange and transient programs, faculty-led programs and Mercer on Mission programs. Mercer University is committed to helping students take full advantage of opportunities to pursue their vocation and gain true understanding of globalization and the major cultural, political, and economic differences among modern societies through studying abroad. Mercer's commitment is reflected in the offering of a cross-cultural preparation course to all students planning a year, semester, or short term experience abroad intended to help students establish an awareness of their own cultural identity, as well as to give them the necessary tools to analyze and reflect upon a foreign culture, and to help them set and reach academic, personal, and vocational goals in relation to their experience abroad. This course is mandatory for all students planning a semester or year abroad and recommended for students participating in a faculty-led or Mercer on Mission experience abroad, and it is graded independently of coursework done abroad.
ISA 101. Cross-Cultural Orientation (1 hour)
Corequisite: acceptance into Mercer University's Study Abroad program through the Office of International Programs.
Students explore personal learning objectives, participate in cross-cultural competency training activities, reflect on culture-crossing focused readings and experiences, and commit to an evaluative method for determining the level of success reached at completion of term abroad. ISA courses are jointly offered by the College of Liberal Arts and the Office of International Programs. (Every semester)

LEARNING SKILLS (LSK)

Students interested in improving their college study skills are encouraged to enroll. Because the courses are individualized, they may be taken out of sequence and there are no prerequisites.

LSK 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 tasking, and improving concentration. The two courses may be taken in any sequence. Students taking a second course will continue to develop skills acquired the previous semester. Each course offers one hour of credit, may not be retaken for additional credit, and is graded S/U. LSK courses are jointly offered by the College of Liberal Arts and the Academic Resource Center. (Every semester)

RESIDENCE LIFE (RSL)

RSL 201. Resident Assistant Development (1 hour)
Prerequisite: Selection as a first time Resident Assistant or Resident Director for the current academic year.
The purpose of this course is to prepare Resident Assistants (RA’s) for their first year in the position. RSL 201 is intended to assist new RA’s in helping to make a successful college experience for their residents. The RA’s will be trained on proper emergency response protocol, identifying campus support systems, creating better academic habits and developing leadership skills. The class will also assist the RA’s in helping themselves and their residents succeed intellectually, socially, and personally during their years on Mercer's campus. This course is graded S/U and can be taken only once. RSL courses are jointly offered by the College of Liberal Arts and the Office of Residence Life. (Every year)

SERVICE LEARNING (SRV)

The College of Liberal Arts intends to help Mercer University students to commit to living as engaged and informed citizens, and this intention is reflected in the offering of service-learning sections of selected courses. In service-learning sections, service informs learning in the same manner as a text, and civic engagement is an important course component.

SRV 199. Service Learning (1 hour)
(Same as CSL 199)
Corequisite: enrollment in a specially designated service-learning course section.
Students enrolled in specially designated service-learning sections commit to working at off-campus community-service sites. This work experience is tied to the learning objec-
UNIVERSITY HONORS PROGRAM (UHP)  
(formerly Honors Program-HON)  

John Thomas Scott, Director/Professor of History

The University Honors Program (UHP) provides academically advanced students with the supportive environment needed to pursue their intellectual interests through research within distinctive paths of enrichment. The specific goals of the program include:

- Cultivating students who ask questions, think critically in answering those questions, make interdisciplinary connections in answering those questions, and can construct creative analytical responses when engaged in collaborative or independent problem solving.
- Cultivating students who obtain the distinctive characteristics necessary to compete successfully for graduate and professional school entrance and for national, international fellowships and scholarships, and leadership roles in the student’s chosen professions.
- Cultivating a community of scholars who are interested in sharing cultural, research, and leadership experiences across the tracks.

Exceptional students, either upon entrance to Mercer or after the end of their first semester, are invited to join the program based upon superior academic records in high school, demonstration of interest in their particular path, and an entrance interview. Each of the tracks is constructed to emphasize growth and development along that track during the student’s career at Mercer, beginning with a first year course introducing students to the foundational concepts, methods, and terminology of academic research and documentation. In subsequent years, students will progress through their track, culminating in an advanced research and documentation project appropriate to their individual track. In addition to these two basic requirements, University Honors Program students must complete the coursework designated within their individual tracks, maintain a portfolio of their work that contains both developmentally appropriate content and reflection, participate in a designated number of University Honors Commons experiences, and maintain a minimum GPA as defined by their specific track.

General Requirements of the Program

- Successful completion of a first year research seminar
- Demonstration of the student’s growth within the track through the production of appropriate annual products as defined within the track
- Maintenance of a portfolio of work generated by the student through the track
- Presentation of work at BEAR Day or a regional/national conference appropriate to the track
- Successful completion of a Culminating Project appropriate to the track
- Participation in two University Honors Commons Events annually and submission of a reflective essay on each event
• Maintenance of a minimum GPA appropriate to the track

Tracks open to CLA Students: Research Scholars Track, Mercer International Scholars Track, and the Mercer Service Scholars Track. For specific requirements of each track see the section entitled “University Honors Program” in the Academic Information section of this catalog.

HON 105. Introduction to Academic Research (1 hour)
Students work in teams on a project of discovery while the instructor introduces them to the basics of academic research. Junior HON students serve as preceptors. S/U. (Every year)

HON 205. Thesis Exploration Seminar (1 hour)
Pre-requisite: HON 105.
Students in the spring of their second year explore possibilities of a senior thesis topic. Senior HON students share their topics and experiences with students while students themselves work with the course director and other faculty to explore thesis possibilities. S/U. (Every spring semester)

HON 210. The Global South (1 hour)
Pre-requisite: HON 105.
The world is divided into those countries that are industrialized, have political and economic stability, and have high human development index factors, and those countries that do not. Obscure Western conventions (cultural, political, and economic) have shaped the way we think of modern global society (e.g., Third World, LDC – Lesser Developed Countries, Developing Country, and the Global South). This seminar explores the concepts of international development and the contentious manner in which we measure and assign societies their global identity. (Every year)

HON 215. Non-Governmental Organizations (2 hours)
Pre-requisite: HON 210.
A course designed to examine the role of the NGO in the international system. Focus will be given to the factors that determine whether or not NGOS can achieve their ambitions to alleviate poverty, illness, and inequality. The course is designed to encourage students to develop an analytical perspective of international assistance and NGOs as actors of socioeconomic change. (Every year)

HON 250. Called to Care (3 hours)
Prerequisites: HON 101 and 102.
This unique Honors course offers students a summer opportunity to work one week at Mercer and then spend three weeks abroad. While in Macon, students will meet in class, discuss several of the readings, and engage in service and observation activities. While abroad, students will meet in class, discuss additional readings, participate in regular reflection sessions, and become observers and workers in a service-learning activity. Both in Macon and abroad, many aspects of care will be explored. Other study-abroad courses containing a service-learning component may satisfy the same Honors Program requirement as this course. This course carries with it a required service-learning component. (Summer sessions only)

HON 251. Encountering the Other (3 hours)
Prerequisites: HON 101 and 102.
We often define ourselves against the “other” in our lives. The definition can include our encounter with the “Other” found in the spirit-world or the “other” found in the lives of people who look, think, or act differently from us. The purpose of this Honors seminar is to engage in a four-week discussion about the other in our home context (Macon, GA or the southeast-
ern U.S.) and then in a study abroad context. We will embark on this journey by reading novels, essays, poems, visiting Cathedrals and immigrant communities, and walking through museums and art galleries. Through the activities and assignments during the four weeks, we will participate in a conversation about what it means to be human. Other study-abroad courses satisfy the same Honors Program requirement as this course.

**HON 305. Honors Preceptorship**  
(1 hour)  
Pre-requisites: HON 105 and either HON 205, Hon 215, or MSS 222.  
Students serve as preceptors in HON 105 by working with the various 101 groups on their projects. S/U. (Every year)

**HON 310. Seminar on Selected Topics in Honors I**  
(3 hours)  
An interdisciplinary seminar involving reading, discussion, and independent student-directed research on a specific topic not traditionally offered in Mercer’s curriculum. May be repeated one time with a different topic. This course is open to all second-year through fourth-year Honors students. (Every fall semester)

**HON 311. Seminar on Selected Topics in Honors II**  
(3 hours)  
An interdisciplinary seminar involving reading, discussion, and independent student-directed research on a specific topic not traditionally offered in Mercer’s curriculum. May be repeated one time with a different topic. This course is open to all second-year through fourth-year Honors students. (Every spring semester)

**HON 320. Honors Service Learning Seminar I**  
(3 hours)  
A seminar emphasizing student-directed applied field projects on a specific topic. May be repeated one time with a different topic. This course is open to all second-year through fourth-year Honors students. (Every fall semester)

**HON 321. Honors Service Learning Seminar II**  
(3 hours)  
A seminar emphasizing student-directed applied field projects on a specific topic. May be repeated one time with a different topic. This course is open to all second-year through fourth-year Honors students. (Every spring semester)

**HON 325. Rethinking International Development: Religion, Agency, and Sustainable Practice**  
(2 hours)  
Pre-requisite: HON 215.  
A course designed to examine how the practice of the politics of international development is structured by religious (theocracies, faith-based organizations, and interfaith groups) and cultural interests (Western modernization versus local tradition). Special attention is given to how these religious structures relate to human agency and the pursuit of sustainable practice at the local level. Themes explored in the course include religion, human migration, environmental practice, education, poverty, gender, and equity. This seminar will involve active discussion, team projects, and a research paper. (Every year)

**HON 361. Honors Junior Colloquium**  
(1 hour)  
This colloquium will provide a forum in which participants in the honors program can discuss their evolving ideas about their honors projects. The class will give students the chance to try out their early thinking on each other, with the aim of eliciting cogent and constructive response. This course is required of all junior Honors students and graded on an S/U basis. (Every fall semester)

**HON 405. Thesis Preparation Seminar**  
(0-6 hours)  
Pre-requisite: HON 205 or HON 215.  
Students in their junior and/or senior year can register for up to six hours to work on their senior thesis. A thesis committee of three faculty members (including departmental mentor
and appropriate Track Director) will oversee the work. May be taken twice for a total of up to six hours of credit towards graduation. S/U (Every year)

HON 496. Senior Project (3 hours)
The project may take one of a variety of forms, ranging from the creation of an artistic work to research in the student's the student’s major discipline. Each student works with an advisory committee, one of whose members is the Honors Program Director and one 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. (Every year)

UNIVERSITY LIFE (UNV)

UNV 101. The First-Year Student Experience (1 hour)
Who can answer my questions? What resources are available? How can I get the most out of college? This course introduces students to the structure of higher education and specific Mercer University policies. Issues such as successful study skills, cultural diversity, critical thinking, ethics, personal relationships, health, safety, and careers are all introduced and discussed. This course is required of all freshmen and is graded S/U. UNV courses are jointly offered by the College of Liberal Arts and the Office of Academic and Advising Services. (Every year)

UNV 102. Academic and Vocational Design (1 hour)
Prerequisite: permission of instructor.
An examination of academic and major exploration with an emphasis on critical thinking, self-discovery and decision-making. This course is graded S/U. UNV courses are jointly offered by the College of Liberal Arts and the Office of Academic and Advising Services. (Every year)

UNV 201. Preparing Peer Advisors for UNV101/BUS 103 (2 hours)
Prerequisite: selection as Peer Advisor for UNV 101/BUS 103.
The purpose of this course is to prepare Peer Advisors (PA’s) to co-facilitate the UNV 101/BUS 103 course. UNV 101/BUS 103 is intended to assist new students in making more successful transitions to college. These students should better understand the value of a liberal arts education, identify campus support systems, develop better academic habits, and succeed intellectually, socially, and personally during their first year at Mercer. The PA's work with instructors to plan weekly classes, attend all class sessions, facilitate class discussions and exercises, and provide insight determined by the topic at hand. Other duties may be determined by the UNV101/BUS 103 instructor in consultation with the PA. Additionally, they will provide assistance and support to new students outside of the classroom, as necessary and appropriate, during the students’ first semester. This course is graded S/U and can be taken only once. UNV courses are jointly offered by the College of Liberal Arts and the Office of Academic and Advising Services. (Every year)

WEB TECHNOLOGY
For a description of the requirements for the minor in WEB TECHNOLOGY, see the heading INFORMATION SCIENCE AND TECHNOLOGY under COMPUTER SCIENCE in this catalog.

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WOMEN’S AND GENDER STUDIES (WGS)

Janell A. Johnson, Chair/Associate Professor of Christianity
Mary Ann Drake, Professor
Natalie J. Bourdon, Assistant Professor

The Women’s and Gender Studies Program offers an opportunity for both male and female students to explore the different ways that men and women have been acculturated throughout history and the changing ways that masculinity and femininity are being defined in contemporary society. 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, another three hour course at the 400 level, 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, 310, 314, 318 or approved WGS 285, 385, 485.
Natural Sciences: WGS 361 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.

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.

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.
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. WGS or cross-listed 200-level 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

WGS 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. (Every semester)

WGS 198. Special Introductory Topics in Women and Gender Studies (Subtitle) (3 hours)
Study of an introductory topic in Women and Gender Studies not covered in any of the departmental offerings. This course may be applied to the Women and Gender Studies major or minor. (Occasionally)

WGS 201. Methods in Gender Studies Research (3 hours)
Prerequisite: WGS 180.
This course will explore and utilize methods for conducting gender studies research. In this course, we will learn how gender and feminist theory shapes the kinds of research questions we ask and how we go about conducting reliable, responsible, and ethical research on gender. Students will work with the instructor to develop and carry out a research project in their own area of interest. (Every year)

WGS 240. Multicultural Women Writers (3 hours)
(Same as ENG 240)
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. (Every two years)

WGS 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. (Every two years)

**WGS 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. (Every year)

**WGS 310. Race, Gender and Media** (3 hours)
(=Same as AFR 310 and JMS 310)
This course will critically examine the role of the media in enabling, facilitating, or challenging the social constructions of race and gender in our society. We will consider the mass media to be one among many other social institutions such as religion, education, and family, which strongly influence our everyday notions of race and gender. The course will address a variety of entertainment and news content in print and electronic media. (Every other year)

**WGS 314. Women in Developing Countries** (3 hours)
(=Same as POL 314)
Prerequisite: POL 253/IAF 253 or consent of instructor.
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. (Every two years)

**WGS 315. Gender and Communication** (3 hours)
(=Same as COM 315)
A study of gender in relation to the public sphere. The primary focus is on feminist approaches to rhetoric and rhetorical theory. Students will also examine how gender intersects with the study of human relationships. (Every other year)

**WGS 318. Queer Cinema** (3 hours)
(=Same as JMS 318)
The course offers an overview of the aesthetic hallmarks, political impulses and critical responses that distinguish queer cinema as a unique, important tradition. Queer authorship, reading practices, and the queerness inherent in mainstream genres will be explored. The work of lesbian and gay filmmakers working in avant-garde and underground venues will also be discussed moving towards a consideration of the New Queer Cinema movement. (Every other year)

**WGS 332. Women, Law and Politics** (3 hours)
(=Same as POL 332)
Prerequisite: POL 101 or consent of instructor.
This course examines the legal and political efforts of women to obtain equality in American society. The course focuses on 1) the landmark legal cases and the important political milestones on the path towards full gender equality; 2) the challenges facing women seeking leadership roles in politics and society; 3) the actual and potential impacts women have on political institutions and policy outcomes; and 4) current public policy areas that have a significant impact on the lives of women and girls. (Every two years)

**WGS 334. Marriage and Family: Diversity and Change** (3 hours)
(=Same as SOC 334)
Prerequisite: SOC 101 or WGS 180.
The course examines marriage and family structures emphasizing their changing roles in history. It focuses on the increasing diversity of contemporary family relationships (marital and non-marital) including the disorganization and re-organization of marital and family life. (Every two years)

**WGS 361. The Biology of Sex and Gender (3 hours)**
*Same as BIO 361*
Prerequisite: WGS 180.
The student will gain a knowledge base of the biology of sex, as well as, exposure to material that inspires one to study science with a critical eye, in particular, from a feminist framework. Topics covered may include the evolution of meiotic sex, human reproductive biology, environmental influences on reproductive biological development, socio-biological theories and sexual behavior in animals, and feminist analyses of the biological sciences. Pedagogy may include collaborative group work. (Every two years)

**WGS 363. Women and Christianity (3 hours)**
*Same as CHR 363*
Prerequisite: CHR 101 or CHR 150, and WGS 180 or permission of the instructor.
A biblical, historical, and theological examination of the role of women within the Judaeo-Christian tradition. (Every three years)

**WGS 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. (Every three years)

**WGS 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 through reading major secondary works and selected primary documents in the field. Students 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. (Every two years)

**WGS 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. (Every two years)

**WGS 383. AIDS: Narratives of Disease (3 hours)**
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. (Occasionally)
WGS 385. Special Topics (3 hours)
Prerequisite: to be determined by the instructor.
A study of some significant topic in women's and gender studies that is not covered by the department's regular course offerings. May be repeated with different topics. (Every year)

WGS 389. The Black Woman (3 hours)
(Formerly AFR 389)
An historical and literary examination of the black woman and her role in American culture. (Every two years)

WGS 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. (Every semester)

WGS 398. Internship in Women and Gender Studies (1-3 hours)
Prerequisites: junior or senior status
An intensive practicum experience at an approved business, organization, or academic institution. Senior-level students, under the direction of a faculty member and an on-site supervisor, are required to engage in projects or assignments requiring at least three on-site hours per week for every hour of credit. Students will learn through observation, regular discussions with the on-site supervisor and Mercer faculty member, and written reflection. In addition, students may be required to attend training events, workshops or weekly seminars. This course may be repeated for a total of 9 hours and does not count towards a major or minor in Women and Gender Studies. Graded S/U. (Every year)

WGS 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. (Every third semester)

WGS 415. Southern Women in Popular Culture, History, and Literature (3 hours)
Prerequisite: WGS 180.
This seminar examines the intersection of gender, race, class, and region in the American South. By examining film, works of fiction, biography, and autobiography, we will look at the ways in which southern women have negotiated the often contested terrain of identity. Particular emphasis will be placed on the constructions of southern womanhood, and the ways in which southern women have created, confronted, accepted, rejected, and struggled with these constructions. (Every other year)

WGS 480. Internship (3-12 hours)
Prerequisites: 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. (As requested)
WGS 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. (Every year) 

WGS 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). (As requested) 

WORLD LITERATURE (WLT) 
For a description of the courses offered in World Literature, see the heading FOREIGN 
LANGUAGES AND LITERATURES in this catalog. 

WRITING INSTRUCTION (WRT) 
Jonathan Glance, Director of WRT/Professor of English 

The ability to articulate ideas and formulate arguments through writing is a cornerstone 
of academic development and a touchstone of higher education. Skill and effectiveness in 
writing are critical to life-long learning and integral to professional success and meaningful 
engagement throughout life – in career, in community, and in social and leisure activities. 
Students need to be able to write both for general and specialized audiences. Thus the abil-
ity to conceptualize and write with a clear sense of purpose must be developed. Writing 
Instruction is structured not only to provide training in how to write well to a variety of pur-
poses, but also to insure that writing skills continue to be developed, practiced, and 
enhanced throughout the undergraduate experience. 

INT 101, 201, GBK 101, GBK 202, and 203 are all 4-hour Writing Instruction courses. 
WRT 120 is a one-hour course that must be taken in co-requisite with disciplinary courses 
as specified in the Course Schedule. Evaluation of WRT 120 courses is determined by 
assignments that directly measure the students' ability to write well. Grade determination 
for WRT 120 will be explicitly defined on the disciplinary course syllabus. A student must 
successfully complete WRT 120 with a grade of C or better prior to taking INT 201. Students 
repeating WRT 120 are not restricted to also repeat the same disciplinary co-requisite. 

Each Writing Instruction course provides substantial instruction in writing and requires 
written work that builds upon students' awareness of writing as a process of discovering and 
arranging ideas and acquiring knowledge. The three-course sequenced Writing 
Requirement provides for a developmentally appropriate process to move students from 
developing competency to demonstrating proficiency in writing by providing opportunities to 
practice and further develop the skills and strategies introduced in INT 101 or GBK 101. 
Written work, in each Writing Instruction course, should work towards the demonstration of 
students' proficiency in critical thinking, argumentation, and writing to a purpose; proficien-
cy in writing for a variety of audiences and in a variety of genres; and practice of success-
ful preparatory writing strategies and research methods through the use of both primary and 
secondary sources. Successful completion of the Writing Requirement, as specified in 
Foundational Studies, is a requirement for graduation. 

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WRT 120. Disciplinary Writing Instruction (1 hour)
Prerequisite: a grade of C or better in INT 101 or GBK 101.
Corequisite: must be with an associated course as prescribed in the Course Schedule
Students will read actively, think critically, and write effectively for a variety of audiences, genres and purposes as part of a process of recursive reflection and revision. Students will identify, evaluate, and responsibly utilize relevant primary and secondary sources and information to formulate a valid line of reasoning in response to complex issues and ideas. Writing instruction is tailored to the distinctive writing demands of the associated co-requisite disciplinary course. (Every Semester)

Please see the Integrative Studies and Great Books Program sections of this catalog for a description of the other writing instruction courses.

WRT 490. Writing Preceptorship (Subtitle) (2 hours)
Prerequisite: successful completion (B or better) of the INT, WRT, or GBK course for which the student will be the preceptor or consent of the Director of INT 101, INT 201, GBK, or WRT.
Selected students will serve as writing facilitators in a 4-hour writing instructive course (INT 101, GBK 101, WRT 120+3 hour disciplinary class, GBK 202, INT 201, or GBK 203). Preceptors attend all classes, read the assigned work, and participate in class discussions. The main duties of the preceptors are to give constructive feedback to students on writing assignments in conjunction with the professor of the 4-hour writing instructive course. Preceptors will meet as a class one hour per week with the Director of the appropriate writing-instructive program for training on teaching writing. Other duties will be determined by the professor of the 4-hour writing instructive course 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 an S/U basis and can be taken only once. (Every semester)

WRT 491. Advanced Writing Preceptorship (Subtitle) (2 hours)
Prerequisites: WRT 490 and successful completion (B or better) of the INT, WRT, or GBK course for which the student will be the preceptor or consent of the Director of INT 101, INT 201, GBK, or WRT.
A continuation of the preceptor role from WRT 490. Selected students will serve as writing facilitators in a 4-hour writing instructive course (INT 101, GBK 101, WRT 120+3 hour disciplinary class, GBK 202, INT 201, or GBK 203). Preceptors attend all classes, read the assigned work, and participate in class discussions. The main duties of the preceptors are to give constructive feedback to students on writing assignments in conjunction with the professor of the 4-hour writing instructive course. Preceptors will meet as a class one hour per week with the Director of the appropriate writing-instructive program for continued training on teaching writing. Other duties will be determined by the professor of the 4-hour writing instructive course 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 an S/U basis and can be taken only once. (Every semester)
Faculty

Susan P. Gilbert, Dean/Professor
Linda L. Brennan, Ph.D., Associate Dean/Professor
J. Michael Weber, Ph.D., Associate Dean/Professor
Steven R. McClung, Ph.D., Associate Dean/Associate Professor
Walter W. Austin, Jordan M. Blanke, Tammy N. Crutchfield, James L. Hunt, Gina L. Miller,
Arthur L. Rutledge, Faye A. Sisk, Lloyd J. F. Southern, Vijaya Subrahmanyan, Roger C.
Tutterow, Charles H. Andrews (Emeritus), G. Russell Barber, Jr. (Emeritus), William Carl
Joiner (Emeritus), M. B. Neace (Emeritus), and Austin C. Schlenker (Emeritus),
Professors
J. Simon, Associate Professors
Carol J. Cagle, Elizabeth Chapman, Kimberly A. Freeman, Kathy D. Mack, Catherine
“Anitha” Manohar, Geoffrey Ngene, Julie A. Petherbridge, Lin Zheng, and William V.
Luckie, Jr. (Emeritus), Assistant Professors
C. Gerry Mills, Stephanie B. Morris, and J. Allen Rubenfield, Lecturers

The Mission of Mercer University’s Stetson School of Business and Economics

Mission Statement

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 Stetson School of Business and Economics is accredited by AACSB International—The Association to Advance Collegiate Schools of Business, 777 South Harbor Blvd., Suite 750, Tampa, FL, 33602-5730; 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 service;
8. and 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.

Undergraduate Degrees

The Stetson School of Business and Economics offers the Bachelor of Business Administration (B.B.A.) degree. Requirements for this degree include studies in the areas of general education, core business knowledge, and a primary focus area of study. The primary focus area of study can be in one of seven traditional majors (accounting, business
information systems, economics, international business, finance, marketing, and sports business management) or through the development and completion of a personalized program of study.

**Graduate Degrees**

Information on the Master of Business Administration, Professional Master of Business Administration, Executive Master of Business Administration, and Master of Accountancy programs is published in this catalog in the Graduate Studies 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 three (3) hours of credit in International 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 in foreign countries. Interested students should contact the program director for specific information.

**International Student Services**

The SSBE provides information to international students about government regulations concerning F-1 Student Visas. International Students are encouraged to seek assistance from the International Student Advisor in the Office of International Programs.

**UNDERGRADUATE PROGRAMS, POLICIES, AND PROCEDURES**

**Entrance into the Stetson School of Business and Economics**

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 a faculty advisor. All students, in consultation with faculty advisors, are encouraged to declare a program of study when appropriate. Declaration of a program of study requires that students complete a Major Declaration Form. Majors are available in the areas of accounting, business information systems, economics, international business, finance, marketing, and sports business management. As an alternative to a traditional major, students may also choose to create an individualized program of study in consultation with their advisor. Students choosing to travel this path will declare the Personalized Program of Study (PPS) as an alternative to a traditional major. Detailed information related to each program of study appears in program-specific sections that follow.

**Undergraduate Transfer and Equivalency Policy**

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 that 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 of a 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. 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 349, BUS 350, 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 score 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 that The College Board 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 (S-U) basis, with the following restrictions:

1. Required mathematics or computer science courses may not be taken on an S-U basis.

2. No course in accounting, business, economics, finance, management, sports business, marketing, or any course that counts toward either a personalized program of study or major may be taken on an S-U basis, unless the course is graded on a non-optional S-U basis.

Courses that are graded on a non-optional satisfactory-unsatisfactory basis will not count toward the allowable maximum of 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 required
business core courses, and the requirements for the major or personalized program of study.

The number of free elective classes is determined by many factors. A student who is not exempt from any courses will have only 8 - 12 hours of totally free electives within the minimum 120 semester hours required for graduation. Students should consult their advisors to determine the number of free electives they may take. 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 of credit toward graduation are not awarded for exempted courses. Hours of 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 of credit in a student's major or personalized program of study.

“BUS 103: The Freshman Business Experience” is required of all fall freshmen enrolled in the SSBE. 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 the curricular structure and requirements of all SSBE programs of study.

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.

Honorary Societies

Beta Gamma Sigma

Beta Gamma Sigma is the honor society for students enrolled in business and management programs accredited by AACSB International – The Association to Advance Collegiate Schools of Business. Election to lifetime membership in Beta Gamma Sigma is the highest honor a business student anywhere in the world can receive in an undergraduate or master's program at a school accredited by AACSB International. Students, based on high academic achievement, and tenured business school faculty members are the only ones eligible for membership in the Society. With more than 500,000 members worldwide, the Society's membership comprises the brightest and best of the world's business leaders. Beta Gamma Sigma membership provides recognition for a lifetime. With alumni chapters in major metropolitan areas across the United States, the BGS CareerCentral job board, and the BetaLink on-line membership community, those recognized for their academic achievements at the Stetson School of Business and Economics can continue an active relationship with Beta Gamma Sigma long after graduation. This lifelong commitment to its members’ academic and professional success is defined in the Society’s mission: "to encourage and honor academic achievement in the study of business and personal and professional excellence in the practice of business."
Omicron Delta Epsilon

The objectives of Omicron Delta Epsilon are recognition of scholastic attainment and the honoring of outstanding achievements in economics; the establishment of closer ties between students and faculty in economics within colleges and universities and among colleges and universities; the publication of the official journal, The American Economist; the sponsoring of panels at professional meetings and the Irving Fisher and Frank W. Taussig competitions. Undergraduates must have completed at least 12 hours of economics, have an overall scholastic average of B in economics and an overall average of B, and rank in the upper third of the class.

School Honors at Graduation

Honors may be earned independently from overall undergraduate honors (cum laude, magna cum laude, summa cum laude). School honors recognize those students who have performed at an exceptionally high level on course work within the SSBE. The requirements are as follows: a grade point average of 3.75 or higher must be earned on core curriculum courses and in all courses within a student's personalized program of study or major(s). Transfer students must attain a 3.75 or higher grade point average on all courses taken at Mercer in the core curriculum and in all courses within a student's personalized program of study or major(s). Additionally, transfer students must attain a combined grade point average of 3.75 or higher on all courses in the core curriculum, in all courses within a student's personalized program of study or major(s), and in all courses taken 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 requirements.

Academic Internships

Academic internships are available and are an optional means of satisfying the experiential component of each student's business curriculum. 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

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. Students are invited to attend selected forums, and some speakers address business classes.
Undergraduate Degree Requirements

To qualify for graduation with the Bachelor of Business Administration degree, the following requirements must be satisfied:

1. A minimum of 120 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 at Mercer or transferred from other institutions. The grades earned in BUS 103, BUS 301, BUS 305, and BUS 401 are not included in this calculation.

3. For students pursuing traditional majors, all courses listed within the requirements must be successfully completed. Additionally, a minimum cumulative grade point average of 2.25 in the total hours taken in any major offered through the Stetson School of Business and Economics with the exception of accounting. A minimum grade point average of 2.5 is required of accounting majors.

4. Completion of the general education requirements.

5. Completion of the communication, mathematics, statistics, and technology courses required for the degree earned.

6. Completion of the courses required in the business core. Accounting majors may double count ACC 421 in the business core and in the major. Economics majors may double count ECN 353 in the business core and in the major.

7. For personalized programs of study, students must successfully complete all courses included in the program of study. Additionally, students must earn a minimum cumulative grade point average of 2.25 in the total hours taken in a Personalized Program of Study.

8. Earn a minimum of 60 semester hours of academic credit in courses other than those that are offered by the Stetson School of Business and Economics, that transfer to Mercer University as business courses, that count towards the business core curriculum, or that are business courses which count toward a major or personalized program of study for the B.B.A. degree. For this purpose, up to 9 semester hours of economics, up to 6 hours of basic statistics, up to 7 hours in mathematics, and up to 3 hours in computer science may count in the minimum of 60 hours required 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 any major or personalized program of study must be taken in residence at Mercer University.

11. The recommendation of the faculty.
The University Honors Program (UHP) provides academically advanced students with the supportive environment needed to pursue their intellectual interests through research within distinctive paths of enrichment. The specific goals of the program include:

• Cultivating students who ask questions, think well in answering those questions, make interdisciplinary connections in answering those questions, and can construct creative analytical responses when engaged in collaborative or independent problem solving.

• Cultivating students who obtain the distinctive characteristics necessary to compete successfully for graduate and professional school entrance, for national and international fellowships and scholarships, and for leadership roles in the student’s chosen profession.

• Cultivating a community of scholars who are interested in sharing cultural, research, and leadership experiences across the tracks.

Exceptional students, either upon entrance to Mercer or after the end of their first semester, are invited to join the program based upon superior academic records in high school, demonstration of interest in their particular path, and an entrance interview. Each of the tracks is constructed to emphasize growth and development along that track during the student’s career at Mercer, beginning with a first year course introducing students to the foundational concepts, methods, and terminology of academic research and documentation. In subsequent years, students will progress through their track, culminating in an advanced research and documentation project appropriate to their individual track. In addition to these two basic requirements, University Honors Program students must complete the coursework designated within their individual tracks, maintain a portfolio of their work that contains both developmentally appropriate content and reflection, participate in a designated number of University Honors Program experiences, and maintain a minimum GPA as defined by their specific track.

General Requirements of the Program

• Completion of a first year research seminar

• Demonstration of the student's growth within the track through the production of appropriate annual products as defined within the track

• Maintenance of a portfolio of work generated by the student through the track

• Presentation of work at BEAR Day or a regional/national conference appropriate to the track

• Completion of a Culminating Project appropriate to the track

• Participation in two University Honors Program Events annually and submission of a reflective essay on each event

• Maintenance of a minimum GPA appropriate to the track
Tracks open to SSBE Students: Mercer Business Scholars Track, Mercer International Scholars Track, and Mercer Service Scholars Track. The Mercer Business Scholars Track is only open to SSBE students. For specific requirements of each track see the section entitled "University Honors Program" in the Academic Information section of this catalog.

CURRICULUM

Students seeking the Bachelor of Business Administration degree must successfully complete the general education requirements, a business communications course, two or three mathematics courses, at least two courses related to information technology, nine business core curriculum courses, courses in curricular exploration and experiential development, and a primary depth area in a business area. The primary depth area will be in the form of a designated major or a personalized program of study.

General Education Requirements*

1. Communication (12 hours)
   a. INT 101 or GBK 101
   b. WRT 120
   c. INT 201
   d. INT 301, COM 210, or TCO 341

2. Religion (3 hours)
   CHR 101, CHR 150, CHR 170, ENG 225, GBK 203, HIS 160, or PHI 240

3. Humanities and Fine Arts (6 hours)
   Choose one course from each group.
   b. CHR 210, 270; CLA 101, CLA 102; ENG 224, 263, 264 GBK 202; HIS 110, 165; PHI 190, or 230

4. Behavioral and Social Sciences (3 hours)
   POL 101, POL/IAF 253; PSY 101; SOC 101, 210, GBK 407; GHS 200; JMS 101, 240; PHI 237, AFR 190, 210; ANT 101; COM 230, 250; ENV 250; GEO 111, SEP 200, or WGS 180

5. Scientific Reasoning (including a laboratory experience) (4 hours)
   BIO 102, 110; CHM 110, 111; ENB 105, 150; PHY 102, 105, 108, 109, 115, 141, or 161

6. Quantitative Reasoning
   STA 126

Additional Curricular Requirements for Business Majors (Independent of General Education Requirements)
7. Ethical Understanding and Reasoning (3 hours)
   PHI 195; CHR 300, 335; ENV 344; SEP 215

8. Multicultural and Diversity Understanding (3 hours)
   CHR 356, 357; AFR 190, 210, 230, 295, 310, 359, 360; JMS 310; COM 230;
   POL/WGS 310, 314; SOC 295, 313, or 325

9. Dynamics of the Global Economy (3 hours)
   POL/IAF 253; POL 312, 313, 314; SOC 321; GEO 111; ENV 250; INT 301; GHS
   300; HIS 201 or HIS 324

*Students may also fulfill the general education requirements by completing the Great
Books program, plus the required quantitative and scientific reasoning courses, plus quan-
titative reasoning and scientific reasoning.

SSBE Business Core Curriculum

In addition to studies in general education, business students are expected to complete
core studies in the areas of business communications, mathematics, quantitative methods,
information technology, and core business studies. Information related to the requirements
in each of these areas appears below. Depending on the choice of courses and major area
of study, students will be required to complete between 52 and 57 credit hours in fulfilling
these requirements.

Business Communications (3 hours)
   1. BUS 281   Business Communications

Mathematics (3-7 hours)
   1. MAT 133   Precalculus
   2. MAT 141 or MAT 191   Calculus**
**NOTES: MAT 141 or MAT 191 is required of economics and finance majors only.

Quantitative Methods for Business (3 – 4 hours)
   1. BUS 350   Business Quantitative Analysis OR
      ECN 353   Econometrics** OR
      MGT 382   Production Operations Management

** NOTES: ECN 353 is required of Economics and Finance Majors Only.

Information Systems and Technology (6 hours)

Choose any two courses from the list below: Required technology prerequisites are list-
ed in parentheses, when appropriate. Please note that other prerequisites may exist for
these courses.
   1. CSC 125   Introduction to Computer Systems OR
      IST 126   Introduction to Information Science and
                 Technology
   2. CSC 285   Advanced Excel   (Prerequisite: CSC 125)
   3. IST 220   Introduction to Databases (Prerequisite: CSC 125
                 or IST 126)
4. BUS 349 Management Information Systems (Prerequisite: CSC 125)
5. ACC 421 Accounting Information Systems

Core Business Studies (27 hours)

1. ACC 204 Financial Accounting
2. ACC 205 Managerial Accounting
3. ECN 150 Principles of Microeconomics
4. ECN 151 Principles of Macroeconomics
5. MGT 363 Principles of Management
6. MKT 361 Principles of Marketing
7. FIN 362 Principles of Finance
8. BUS 346 Legal Foundations of Business
9. MGT 498 Strategic Management (Capstone)

Curricular Exploratory and Experiential Components (7 hours)

1. BUS 103 The Freshman Business Experience
2. BUS 301 Beginning the Journey
3. BUS 305 Gaining Experience
4. BUS 401 Making the Transition
5. BUS 482 Business Education Assessment

*52-57 Credit Hours Required in the Core, including mathematics, communication, information technology.

MAJORS/Personalized Portfolio of Study

The Stetson School of Business and Economics offers majors in the following areas: accounting, business information systems, economics, finance, international business, marketing, and sports business management. Additionally, students that wish to tailor their program of study to meet unique interests may pursue the personalized portfolio of study (PPS). The PPS affords students the opportunity, in close consultation with an advisor, to create a particular program of study that spans disciplines in order to meet their unique curricular objectives. Information related to each of these majors and the PPS follow.

MINORS

For students pursuing a bachelor of business administration degree (thereby completing the business core curriculum), minors are offered in the areas of accounting, economics, finance, management, international business, and marketing. Information related to these minors appears in the discipline specific section of this catalog.

For students not seeking a bachelor of business administration degree, minors are offered in the areas of accounting, economics, and business administration. A 2.0 grade point average is required to earn a minor.

The requirements for a minor in accounting for the non-business major are: ACC 204, ACC 205, ACC 331, ACC 332 and one other accounting course 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 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 faculty member in the school.
The requirements for a minor in economics for the non-business major are: ECN 150 and ECN 151, STA 126, 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 his/her major requires that s/he broaden him/herself by taking a depth area, a minor, or professional-area electives over and above the courses required for his/her major. Four of the five courses must be taken in residence.

**Accounting (ACC)**

Mercer University offers rigorous and challenging studies in the area of accounting. Successful students are provided with a current treatment of accounting issues leaving them well prepared for graduate studies, and eventually, professional certification. Business students may choose to pursue a major or minor in the area of accounting.

The Accounting Major consists of two components:

**A. Accounting Core (17 credit hours)**

1. Intermediate Accounting I (ACC 331)
2. Intermediate Accounting II (ACC 332)
3. Tax Accounting (ACC 375)
4. Auditing (ACC 431)
5. Accounting Information Systems (ACC 421)

**B. Accounting Electives (6 credit hours) selected from the following:**

1. Cost Accounting (ACC 377)
2. Governmental and Not for Profit Accounting (ACC 411)
3. Advanced: Consolidation Reporting (ACC 436)
4. Accounting Research (ACC 478)
5. Accounting Internship (ACC 305)
6. Special Topics (ACC 477)

Special Topics courses are independent studies in areas such as advanced auditing, advanced taxation, advanced managerial accounting, issues in international accounting, advanced theory, accounting research, and forensic accounting.

A minor in the area of accounting is available to students pursuing the Bachelor of Business Administration degree. Requirements for a minor are Intermediate Accounting I (ACC 331), Intermediate Accounting II (ACC 332), and two other accounting electives numbered 300 or higher.

Courses used for a student's major may not be used toward this minor. This double-counting prohibition will not preclude a student from earning one of these minors under circumstances where his/her major requires that s/he broaden him/herself by taking a depth area, a minor, or professional-area electives over and above the courses required for his/her major.

**Business Information Systems**

The business information systems major provides the educational background and practical knowledge sufficient to allow for entry level participation in labor market activities related to applied information technology in business environments. Studies in this major
allow for the development of broad knowledge across all traditional business disciplines through completion of the business core curriculum. Beyond this, students will gain specific knowledge and experience in one of five tracks. Each track provides detailed studies in a particular area of information technology. Tracks are available in (I.) information science and technology, (II.) programming, (III.) Internet development, (IV.) networks, and (V.) database management. Detailed information regarding the curricular requirements of each track is provided below.

Students seeking a Bachelor of Business Administration degree with a major in Business Information Systems will be required to successfully complete the general education and business core curricula of SSBE. In completing the business core curriculum, students majoring in business information systems will be required to successfully complete IST 126 (Introduction to Information Science and Technology). Beyond this, a total of 15 hours are required to complete a major in business information systems. These courses will be contained within one of five available tracks, chosen by the student in consultation with an advisor. Specifically, students pursuing a major in business information systems will be required to successfully complete all requirements in at least one of the five tracks listed below.

I. Programming Track
1. Programming I in Java (CSC 204)
2. Programming II in Java (CSC 205)
3. Visual Programming (CSC 206)
4. Two courses selected from the following list:
   a. Scripting Languages (IST 311)
   b. Visual Programming II (IST 313)
   c. Software Engineering Tools (IST 350)

II. Internet Development Track
1. Programming I in Java (CSC 204)
2. Visual Programming (CSC 206)
3. Introduction to Internet Programming (IST 276)
4. Server Side Programming (IST 351)
5. Web Server Issues (IST 461)

III. Networks Track
1. Introduction to Networks (IST 221)
2. LAN and WAN Technologies (IST 277)
3. Network Protocols (IST 316)
5. Network Security (IST 462)

IV. Database Track
1. Programming I in Java (CSC 204)
2. Introduction to Internet Programming (IST 276)
3. Introduction to Databases (IST 220)
4. Database Administration (IST 318)
5. Server Side Programming (IST 351)

V. Information Science & Technology Track
1. 15 approved credit hours are required in this area
2. At least 6 of the 15 hours of credit must be in IST courses numbered 300 or above.
For the Information Science and Technology Track, CSC 204, CSC 205, and CSC 206 may be used in satisfying the above requirements. This track is designed to allow for flexibility in curricular requirements to coincide with student interests and strengths. The courses in this track must be approved by the chairperson of the computer sciences department in consultation with an appropriate advisor from the Stetson School of Business and Economics.

A minor is not available in the area of business information systems. Full course descriptions for each of CSC and IST courses listed above can be found in the College of Liberal Arts section of this bulletin.

Economics (ECN)

The Economics Department develops in students both a theoretical and practical understanding of the social science of economics. The program is rich in practical content, application and student-faculty interaction. Students successfully completing our program should be well prepared for graduate studies, policy-oriented research, consulting activities, and/or other non-academic employment across a multitude of industries.

Students seeking a Bachelor of Business Administration degree with a major in economics through the Stetson School of Business and Administration will be required to successfully complete the general education and business core curricula of SSBE. Beyond this, a total of 22 credit hours are required to complete a major in economics. Specifically, students pursuing a major in economics will be required to successfully complete the following courses:

1. Intermediate Microeconomics (ECN 302)
2. Intermediate Macroeconomics (ECN 303)
3. Calculus I (MAT 191)
4. Econometrics (ECN 353)
5. Three additional ECN courses numbered 300 or higher. Each of these courses must be at least 3 credit hours in duration. Courses should be selected in consultation with the student's academic adviser.

A minor in economics for students pursuing the Bachelor of Business Administration degree consists of a total of 15 credit hours. All students are eligible to pursue a minor in economics. Specifically, students pursuing a minor in economics will be required to complete the following courses:

1. Principles of Microeconomics (ECN 150)
2. Principles of Macroeconomics (ECN 151)
3. Elementary Statistics (STA 126)
4. Three additional ECN courses numbered 300 or higher. Each of these courses must be at least 3 credit hours in duration. Courses should be selected in consultation with the student's academic adviser.

Courses used for a student's major may not be used toward this minor. This double-counting prohibition will not preclude a student from earning one of these minors under circumstances where his/her major requires that s/he broaden him/herself by taking a depth area, a minor, or professional-area electives over and above the courses required for his/her major.
Students who earn at least 15 hours in economics and maintain an overall grade point average of at least 3.0 and a grade point average in all economics courses taken of at least 3.0 will be eligible for admission to Omicron Delta Epsilon, an internationally recognized honor society in economics.

**Finance (FIN)**

Financial efficiency is a critical determinant of the profitability of a business enterprise. The major in finance, offered through the Stetson School of Business and Economics of Mercer University, provides a rigorous and broad treatment of financial institutions, capital markets, investment instruments, capital budgeting approaches, and financial administration. Completion of this major prepares students for managerial positions in the financial sector (for example, banking, insurance, securities), for staff positions in business firms of a nonfinancial nature, and for graduate studies. The major in finance is rich in practical content, application, and student-faculty interaction.

Students seeking a Bachelor of Business Administration degree with a major in finance will be required to successfully complete the general education and business core curricula of SSBE. The first required finance course for the major, FIN 362 (Principles of Finance) is included in the business core curriculum. Beyond this, a total of 21 to 22 credit hours are required to complete a major in finance. Specifically, students pursuing a major in finance will be required to successfully complete the following courses:

1. Corporate Finance (FIN 463)
2. Investments (FIN 404)
3. Security Analysis (FIN 461)
4. Calculus I (MAT 191)
5. Three additional FIN courses numbered 400 or higher. Each of these courses must be at least 3 credit hours in duration. Intermediate Accounting II (ACC 332) may be used as one of the three finance electives. Courses should be selected in consultation with the student's academic adviser.

Minors in finance are available to students pursuing a Bachelor of Business Administration degree. Beyond the requirements of the business core curriculum, which includes FIN 362 (Principles of Finance), a minor in finance consists of a total of 12 credit hours. Specifically, students pursuing a minor in finance will be required to complete the following courses:

1. Corporate Finance (FIN 463)
2. Investments (FIN 404)
3. Two additional courses additional FIN courses numbered 400 or higher. Each of these courses must be at least 3 credit hours in duration. Intermediate Accounting II (ACC 332) may be used as one of the two finance electives. Courses should be selected in consultation with the student's academic adviser.

Courses used for a student's major may not be used toward this minor. This double-counting prohibition will not preclude a student from earning one of these minors under circumstances where his/her major requires that s/he broaden him/herself by taking a depth area, a minor, or professional-area electives over and above the courses required for his/her major.
International Business

The major in international business, offered through the Stetson School of Business and Economics of Mercer University, provides students with the educational background, practical knowledge, and engaged experiences to prepare them for employment opportunities related to international business or international affairs. These opportunities may be in the United States or abroad, and may be with traditional profit seeking firms, non-profit entities, or government agencies. Students excelling in this major should also be well positioned for graduate studies in international business.

Students seeking a Bachelor of Business Administration degree with a major in international business will be required to successfully complete the general education and business core curricula of SSBE. Beyond this, a total of 30 to 41 credit hours are required to complete a major in international business. These courses will be attained in two distinct areas: a common core area and a supplemental depth track, chosen by the student. Specifically, students pursuing a major in international business will be required to successfully complete the following courses:

Common Core for Major: (12 hours)

1. International Economics (ECN 441)
2. International Finance (FIN 451)
3. International Management and Marketing (MKT/MGT 472)
4. Seminar in Economic Growth (ECN 448) OR Intermediate Macroeconomics (ECN 303)

Track Designation: (9 hours (minimum requirement))

Students pursuing an international business degree will be required to declare and pursue studies in a “track” designed to provide supporting depth knowledge within a particular discipline. Generally, each track will consist of at least 9 credit hours of upper division course work. Satisfactory performance in the track courses will be required to complete the major. Thus, at the time the major is declared, the student will choose a desired track. Faculty within disciplines will decide what the curricular requirements will be for a specified track in consultation with the student. Courses within the track should be, to the best possible extent, courses that would add value to the marketability and expected productivity of a student in pursuit of activities in the area of international business. Tracks available include:

1. Economics
2. Finance
3. Marketing
4. Management
5. Foreign affairs/International relations track

Additional Requirements for the International Business Major:

Language Requirement: Students must complete FLL 111-112 and FLL 251-252; or satisfy the equivalent based on university and departmental requirements.

Students whose primary language is other than English will not be required to complete this requirement. Determination as to whether this is applicable will follow norms and regulations established in the College of Liberal Arts.
Experiential Component: Students must complete one of the two curricular requirements below:

1. Business Studies Abroad (BUS 413) OR
2. Any Mercer University Study Abroad Experience (outside of SSBE) AND BUS 305 (Business Internship)

Minors in international business are also available to students pursuing a Bachelor of Business Administration degree. Beyond the requirements of the business core curriculum, which includes all necessary prerequisites for the courses listed below, a minor in international business consists of a total of 9 credit hours. Specifically, students pursuing a minor in international business will be required to complete the following courses:

1. International Economics (ECN 441)
2. International Finance (FIN 451)
3. International Management and Marketing (MKT/MGT 472)

Courses used for a student’s major may not be used toward this minor. This double-counting prohibition will not preclude a student from earning one of these minors under circumstances where his/her major requires that s/he broaden him/herself by taking a depth area, a minor, or professional-area electives over and above the courses required for his/her major.

Management (MGT)

The curricular interests of students pursuing studies in management are quite broad. The discipline of management includes studies in the organization and behavior in private or public firms, non-profit firms, and entrepreneurial entities. As such, students wishing to pursue studies in management often benefit greatly from developing a customized curriculum that meets their specific interests. Students wishing to pursue intensive studies in the area of management are encouraged to meet with management faculty and develop a personalized portfolio of study (PPS) to meet their curricular objectives. Information related to the PPS appears in this bulletin under the heading Personalized Portfolio of Study (PPS).

Minors in management are available to students pursuing a Bachelor of Business Administration degree. Students are required to complete the business core curriculum, which include MGT 363 (Principles of Management) and MGT 498 (Strategic Management and Business Policy). Beyond this, the minor in management consists of a total of 9 additional credit hours of study in the area of management. In general, students may choose any upper division management courses in fulfilling the requirements of the minor. Each upper division management course selected must be at least 3 credit hours in duration.

Courses used for a student’s major may not be used toward this minor. This double-counting prohibition will not preclude a student from earning one of these minors under circumstances where his/her major requires that s/he broaden him/herself by taking a depth area, a minor, or professional-area electives over and above the courses required for his/her major.

Marketing (MKT)

Marketing emphasizes the study and understanding of forces that have impact on the potential customer, and the marshaling of resources to best serve selected target markets to achieve organizational objectives. This includes a concern for the development of product policies and strategies, as well as distribution, promotion, and pricing strategies. The
major in marketing, offered through the Stetson School of Business and Economics of Mercer University, is designed to provide students with strong theoretical, practical, and experiential knowledge in these areas.

Students seeking a Bachelor of Business Administration degree with a major in marketing will be required to successfully complete the general education and business core curricula of SSBE. The first required marketing course for the major, MKT 361 (Principles of Marketing) is included in the business core curriculum. Beyond this, a total of 15 credit hours are required to complete a major in marketing. Specifically, students pursuing a major in marketing will be required to successfully complete the following courses:

1. Marketing Research (MKT 415)
2. Strategic Marketing Management (MKT 475)
3. Consumer Behavior (MKT 442)
4. Two additional courses additional MKT courses numbered 400 or higher or MGT 427. Each of these courses must be at least 3 credit hours in duration. Courses should be selected in consultation with the student's academic adviser. No more than 3 credit hours can be earned in special topics or individualized research courses.

Minors in marketing are available to students pursuing a Bachelor of Business Administration degree. Beyond the requirements of the business core curriculum, which includes MKT 361 (Principles of Marketing), a minor in marketing consists of a total of 9 credit hours. The additional courses that are required of marketing minors are listed below.

1. Marketing Research (MKT 415)
2. Strategic Marketing Management (MKT 475)
3. Consumer Behavior (MKT 442)

Courses used for a student's major may not be used toward this minor. This double-counting prohibition will not preclude a student from earning one of these minors under circumstances where his/her major requires that s/he broaden him/herself by taking a depth area, a minor, or professional-area electives over and above the courses required for his/her major.

### Sports Business (SBM)

The Sports Business program at Mercer University will offer a comprehensive curriculum with an integrated business approach and a sports emphasis. The Mercer University program offers students, in a hands-on environment, the opportunity to earn their degree in Sports Business. Focusing on research, marketing, event management and law and ethics, the Mercer University Sports Business program provides students with the skills and business background to develop careers in the growing field of sport.

Mercer offers a sports business degree that emphasizes the business of sport. Students seeking a Bachelor of Business Administration degree with a major in sports business will be required to successfully complete the general education and business core curricula of SSBE. In addition, students will be required to complete 27 additional hours of sports related courses, including a comprehensive internship in a sports business environment. The specific requirements for the major are:

1. Sports Economics (ECN 436)
2. Financial Planning for Professional Athletes (SBM 380)
3. Sports Law (SBM 321)
4. Sports Marketing and Research (SBM 460)
5. Facilities Management (SBM 320)
6. Event Marketing/Mgmt (MGT 420)
7. Internship (SBM 405)
8. Two approved electives related to the student's specific curricular interests. These electives must be approved by the Director of the Sports Business program prior to student enrollment. Each of these elective courses must be at least 3 credit hours in duration.

A minor is not available in the area of sports business.

**Personalized Program of Study (PPS)**

The Bachelor of Business Administration (BBA) degree program enables students to develop the administrative, analytical, decision-making, communication, and computer skills necessary to succeed in today's business world. The Personal Portfolio of Study (PPS) in the BBA program allows students greater flexibility in selecting courses that correspond to life and career goals.

Students seeking a PPS as their major program of study are subject to the same requirements as any other BBA major, including the general education distribution, mathematics and information systems and technology courses, and the business core curriculum. In addition, students create their own portfolios of study by selecting at least six (6) 300-400 level courses from one or more business disciplines, which might include a minor in a particular area. Free electives are taken as needed to reach the required total hours and grade point requirements for graduation.

**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' catalog.

**ACCOUNTING (ACC)**

**ACC 204. Introductory Financial Accounting** (3 hours)

NOTE: CSC 125 or INSY 102 is recommended prior to enrolling.

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.

**ACC 205. Introductory Managerial Accounting** (3 hours)

Prerequisite: ACC 204.

This course provides 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.

**ACC 210. Computerized Financial Accounting Procedures** (3 hours)

Prerequisite: ACC 204.

This class presents a concentrated study of the accounting cycle and the subsequent production of the required financial statements for a small business enterprise using a commercial accounting software package. The course focuses on the experience and hands-on knowledge needed to confidently organize, maintain, analyze and produce the financial statements of a small company.
ACC 305. Gaining Accounting Experience (3 hours)
Prerequisites: BUS 301, junior standing, and 9 or more credit hours in business.
This course is offered as an alternative to BUS 305 in course name only for accounting students. Accounting students successfully completing this course may include their accounting internship experience as one of the prerequisite courses needed for professional certification. To register and receive credit for ACC 305 the student must have an approved internship with accounting related duties. The course content and requirements are the same as BUS 305. Please view the course description of BUS 305 for additional information related to this course. ACC 305 may be repeated only with permission from the Office of the Associate Dean.

ACC 331. Intermediate Accounting I (4 hours)
Prerequisites: ACC 204 and 205.
This course presents a study of the theory and principles governing the collection and summarization of financial data for the preparation of the income statement, balance sheet, and statement of cash flows. This course will focus on the construction of financial statements, issues involving revenue recognition, and accounting for cash, receivables, inventory, property, plant, equipment, and intangible assets.

ACC 332. Intermediate Accounting II (4 hours)
Prerequisite: ACC 331.
ACC 332 is a continuation of ACC 331. This course will address current and non-current liabilities, shareholder equity, dilutive securities and earnings per share, investments, GAAP treatment of income taxes, pensions, leases, accounting changes, and disclosure requirements.

ACC 341. Fraud Examination (3 hours)
Prerequisites: ACC 331 and BUS 346, or consent of the instructor.
The course will cover the principles and methodology of fraud detection and deterrence. Course content will include such topics as skimming, cash larceny, check tampering, register disbursement schemes, billing schemes, payroll and expense reimbursement schemes, non-cash misappropriations, corruption, accounting principles and fraud, fraudulent financial statements, and interviewing witnesses.

ACC 368. Corporate Financial Reporting (3 hours)
Prerequisite: ACC 204 or the equivalent.
This course offers a critical examination of accounting procedures used in the 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.)

ACC 375. Tax Accounting (3 hours)
Prerequisites: ACC 204 and 205.
This course is a study of the basic principles and concepts of federal income taxation of individuals. This includes brief coverage of federal taxation of the following business entities: sole proprietorships, partnerships and limited liability entities, C corporations, and S corporations.

ACC 377. Cost Accounting (3 hours)
Prerequisites: ACC 204 and 205.
This course is 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 of study are: process, job order, standard, functional relationships, and budgeting.

**ACC 411. Governmental and Not-For-Profit Accounting (3 hours)**
Prerequisites: ACC 204, 205 and 331.
This course provides students the opportunity to study the principles of fund accounting for, and financial reporting by, not-for-profit and governmental entities.

**ACC 421. Accounting Information Systems (3 hours)**
Prerequisite: ACC 331.
The course presents an introduction to the study of computer-based accounting systems with a primary focus on basic system documentation and design. Other topics covered include information system applications, internal controls and system security, auditing procedures related to the accounting system, and accounting system applications.

**ACC 431. Auditing (3 hours)**
Prerequisites: ACC 331; STA 126 or 320.
Corequisite: ACC 332 or consent of the instructor.
This course focuses on the objectives, standards, and procedures involved in examining and reporting on financial statements of business organizations by independent auditors.

**ACC 436. Advanced Accounting (3 hours)**
Prerequisites: ACC 331 and 332, or consent of the instructor.
The course represents 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.

**ACC 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 that is not otherwise covered by the school's course offerings. Topics will be chosen in consultation with students who register for the course.

**ACC 478. Research in Accounting (Subtitle) (1-3 hours)**
Prerequisites: junior or senior standing and the consent of the instructor.
This is research-oriented course focusing on an important topic in accounting that is not otherwise covered by the school's offerings. The course features student research, independent study, and discussion.

**ACC 494. Honors Thesis (1 hour)**
Prerequisite: admission to the honors program.
Students enrolled in this class will engage in 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)**

**BUS 101. First-Year Leadership Experience (FLEX) (2 hours)**
This course is designed to teach leadership development theory and help first-year students become engaged with the Mercer and Macon communities. Priority registration is given to Mercer Service Scholars. This is an interactive, experiential course that depends on the
involvement and participation of all participants. (This course does not count toward any business major or minor.)

**BUS 102. Mediation Skills for Student Leaders**  (2 hours)
This course is particularly relevant for students active in campus leadership and seeking to learn how best to serve their communities upon graduation. Participants will: (1) increase their understanding of conflict and the role of mediation, (2) develop skills to enhance their ability to use mediation to empower others, and (3) engage diverse groups and communities to help identify common interests and develop transformative processes of change. Priority registration is given to Mercer Service Scholars. The course will require a team-based, service-learning project. (This course does not count toward any business major or minor.)

**BUS 103. The Freshman Business Experience**  (1 hour)
Prerequisite: This course is 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 to 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 the business curriculum and acquaint them with academic and support resources in SSBE. Students are evaluated on a letter grade basis.

**BUS 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 demonstrate how the private-ownership, free-market economic system works, as well as how individual businesses start up and operate. These projects target groups that include school children, college students, television and radio audiences, newspaper readers, Internet users, civic and professional organizations, business owners, and potential business owners.

**BUS 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 demonstrate how the private-ownership, free-market economic system works, as well as how individual businesses start up and operate. These projects target groups that include school children, college students, television and radio audiences, newspaper readers, Internet users, civic and professional organizations, business owners, and potential business owners.

**BUS 281. Business Communication and Report Writing**  (3 hours)
Prerequisites: INT 101 and sophomore standing.
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.

**BUS 301. Beginning the Journey**  (2 hours)
Prerequisites: ACC 204, ECN 150, and ECN 151.
Prerequisites or co-requisites: At least two of the following courses: FIN 362, MGT 363, or MKT 361.
Students in need of this course that have not met these requirements may be enrolled with the consent of the Associate Dean.
This course develops a student's awareness of himself or herself and business. This is accomplished through assessment vehicles, business resource guides, interaction with business professionals, and the development of short- and long-term life goals. This course, limited to business students, is generally taken during the sophomore year.

**BUS 305. Gaining Experience** (3 hours)
Prerequisites: BUS 301, junior standing, and 9 or more credit hours in business.
This course is designed to support a 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 expected postgraduate employment, thus creating opportunities for examining the fit between personal gifts, desires, and expectations and 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. BUS 305 may be repeated only with permission from the Office of the Associate Dean.

**BUS 318. Internship in Business** (1 hour)
Prerequisites: sophomore status, minimum 2.5 GPA, and 9 or more credit hours in business courses.
This course is based solely upon 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. This course does not count toward a personalized portfolio of study, may only be repeated once, and will be graded on a S/U basis.

**BUS 342. Advanced Statistics for Business and Economics** (3 hours)
Prerequisites: ECN 150, 151, STA 126 or MAT 320, MAT 141 or MAT 191, and junior status.
This course is designed 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 than theoretical detail.

**BUS 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.

**BUS 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. These areas include: contracts, the Uniform Commercial Code, sales, commercial paper, debtor-creditor relationships, bankruptcy, business organizations, government regulation of business, and real and personal property.
BUS 349. Management Information Systems (3 hours)
(Same as IST 349)
Prerequisite: CSC 125 or INSY 115, ACC 204, 205, MKT 361, and MGT 363.
This course focuses on 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 an organization, techniques of analysis, and design and implementation of a system.

BUS 350. Business Quantitative Analysis (3 hours)
Prerequisites: ECN 150; MAT 133, and STA 126 (or equivalent).
In this course, an emphasis will be placed on the practical application of quantitative analysis as it is 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.

BUS 401. Making the Transition (1 hour)
Prerequisites: BUS 301 and junior standing.
This course helps a student transition 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.

BUS 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 is 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 of the trip and are required to attend lectures on different topics prior to the trip. A research topic will be chosen based on each 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 their return to Atlanta/Macon. Direct costs, such as airfare, meals, and lodging, are added to normal tuition charges.

BUS 477. Special Topics in Business (Subtitle) (1-3 hours)
Prerequisites: junior or senior standing and the consent of the instructor.
This course provides a framework for an intensive study of some significant topic in business that is not otherwise covered by the school's course offerings. Topics will be chosen by faculty in consultation with students who register for the course.

BUS 478. Research in Business (Subtitle) (1-3 hours)
Prerequisites: junior or senior standing and the consent of the instructor.
This course provides a framework for a research-oriented study of an important topic in business that is not otherwise covered by the school's offerings. The course features student research, independent study, and discussion. Topics will be chosen by faculty in consultation with students who register for the course.

BUS 494. Honors Thesis (1 hour)
Prerequisite: admission to the honors program.
This course requires 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)

ECN 150. Principles of Microeconomics (3 hours)
Prerequisite: mathematics competency or completion of a college mathematics course.
This course requires the 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.

ECN 151. Principles of Macroeconomics (3 hours)
Prerequisite: mathematics competency or completion of a college mathematics course.
The course requires 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.

ECN 152. Intermediate Microeconomic Theory (3 hours)
Prerequisites: ECN 150, 151 and junior status (or consent of instructor).
This course requires the 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.

ECN 153. Intermediate Macroeconomic Theory (3 hours)
Prerequisites: ECN 150, 151 and junior status (or consent of instructor).
This course requires the study of the forces determining the level of income, employment, and prices. Monetary theory and the theory of economic fluctuations are reviewed, and public policies dealing with level-of-income and with aggregate economic welfare are examined.

ECN 301. Money, Credit, and Banking (3 hours)
(Cross-listed with FIN 301)
Prerequisites: ECN 150, 151 and junior status (or consent of instructor).
This course focuses upon a functional study of monetary, banking, and credit structures, including a critical examination of monetary theory and policy recommendations.

ECN 302. Introduction to Econometrics (3 hours)
Prerequisites: ECN 150, 151, STA 126 or MAT 320, MAT 191, and junior status (or consent of instructor).
This course requires the study of the methods of empirically verifying economic theory. The course will include the estimation of single and multiple equation models that are often used in economic analysis. 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.

ECN 304. American Economic History (3 hours)
Prerequisites: ECN 150, 151, HIS 165.
This course requires the study of the institutional and structural factors that contributed to the development of the American economy.

ECN 305. Urban and Regional Economics (3 hours)
Prerequisites: ECN 150 and ECN 151.
This course offers students the opportunity to study a variety of important social and economic phenomena in urban and regional settings. Topics covered in this course include an economic analysis of poverty, housing, land use, transportation, and public services, with
special references to social problems arising from the uneven distribution and immobility of resources.

**ECN 436. Economics of Sports** (3 hours)
Prerequisites: ECN 150 and ECN 151.

This course examines economic issues pertaining to professional and amateur sports. Microeconomic theory is extended into this area of interest. Topics covered include the expansion of leagues, the economic impact of new stadiums, the economics of the media and sport, labor market issues of free agency, NCAA rules and collegiate sports.

**ECN 437. Law and Economics** (3 hours)
Prerequisites: ECN 150 and ECN 151.

This course uses the tools of microeconomics to examine the effects of different legal rules, the efficiency of legal outcomes, and the economics of social and legal norms. The philosophies of judicial activism and rule-based law will be compared and contrasted. The economics of contracts, torts, property law, and antitrust law will also be explored.

**ECN 438. Public Finance** (3 hours)
Prerequisites: ECN 150 and ECN 151.

This course is a survey of public economics theory. Topics include social welfare, taxation, public goods, voting efficiencies, and the role of government.

**ECN 441. International Economics** (3 hours)
Prerequisites: ECN 150 and ECN 151.

This course is 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.

**ECN 443. Labor Economics** (3 hours)
Prerequisites: ECN 150 and ECN 151.

This course focuses on the economic behavior of labor markets. It includes a study of major labor issues in the United States and the social and economic policies affecting the labor movement. The economic organization of labor organizations and trade unionism will also be covered. The treatment of this area will also include discussions of recent and pending legislation in the states and nation.

**ECN 445. Industrial Organization** (3 hours)
Prerequisites: ECN 150 and ECN 151.

This course focuses on the industrial organization and government regulation of business enterprises, market structures. The course will focus on analyzing the conduct and performance of firms operating within various competitive environments. Particular attention will be given to the development and impact of antitrust regulation.

**ECN 448. Seminar in Economic Growth** (3 hours)
Prerequisites: ECN 150 and ECN 151.

This is a seminar in the economic analysis of 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.

**ECN 450. The Economic and Moral Foundations of Capitalism** (3 hours)
Prerequisites: ECN 150 and ECN 151.

The course examines the interrelationship between economics and ethics. It sheds light on how an understanding of economics can lead to more ethical choices, and it also looks at
how ethical ideas shape economic life. The course examines a number of topics, including justifications for property rights, the controversy over income inequality, the role of profits in an economic system, self interest versus selfishness, social entrepreneurship, public aid and welfare, and many other topics.

ECN 452. Environmental Economics (3 hours)
Prerequisites: ECN 150 and ECN 151.
This course is an examination of the interrelationship that 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 ability of free markets to allocate scarce environmental resources efficiently, across both space and time, among competing uses.

ECN 456. Readings in Political Economy (1 hour)
Prerequisites: ECN 150 and ECN 151 (or consent of instructor).
The course is a seminar that focuses on current research in political economy. Students read current literature dealing with issues of political economy. Authors visit throughout the semester. Students can take the class up to three times. Hours in this class do not count toward upper level economics elective requirement.

ECN 477. Special Topics in Economics (Subtitle) (1-3 hours)
Prerequisites: ECN 150 and ECN 151.
This course provides an intensive study of some significant topic in economics that is not otherwise covered by the school’s course offerings. Topics will be chosen by faculty in consultation with students who register for the course.

ECN 478. Research in Economics (Subtitle) (1-3 hours)
Prerequisites: ECN 150, 151, one ECN course numbered 300 or higher; or permission of instructor.
This course is a research-oriented course focusing on an important topic in economics that is not otherwise covered by the school’s offerings. The course features student research, independent study, and discussion. Topics will be chosen by faculty in consultation with students who register for the course.

ECN 494. Honors Thesis (1 hour)
Prerequisite: admission to the honors program.
This course requires 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)

FIN 301. Money, Credit, and Banking (3 hours)
(Cross-listed with ECN 301)
Prerequisites: ECN 150, 151, and junior status (or consent of instructor).
This course focuses upon a functional study of monetary, banking, and credit structures, including a critical examination of monetary theory and policy recommendations.

FIN 362. Principles of Finance (3 hours)
Prerequisites: ECN 150, 151, 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.
FIN 404. Investments (3 hours)
Prerequisites: FIN 362 and STA 126.
The 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.

FIN 451. International Finance (3 hours)
Prerequisites: ECN 150, ECN 151, FIN 362, and STA 126.
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.

FIN 461. Security Analysis (3 hours)
Prerequisites: FIN 362, STA 126, and either MAT 141 or MAT 191.
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.

FIN 463. Corporate Finance (3 hours)
Prerequisites: FIN 362 and STA 126.
This course is a continuation of FIN 362. Students will study issues related to long-term financing, capital structure decision making, short-term financial planning, and the management of working capital. Additional topics include mergers and acquisitions and international finance.

FIN 465. Financial Institutions (3 hours)
Prerequisite: FIN 362.
The course will focus on the role of various financial intermediaries in channeling savings into productive investments. Emphasis will be placed on the study of such institutions as banks, savings and loan associations, credit unions, and insurance companies.

FIN 470. Derivative Securities (3 hours)
Prerequisites: FIN 362, STA 126, and (MAT 141 or MAT 191).
This course provides an introduction to various derivative securities. Basic valuation concepts and the use of derivatives for speculative purposes, hedging purposes, and arbitrage are discussed. Special focus is placed on how financial arbitrage is used to price derivatives. The course will also cover implementation of derivatives trading strategies, the functions of derivatives in securities markets, and innovations in derivative markets.

FIN 471. Mergers and Acquisitions (3 hours)
Prerequisites: ECN 150, ECN 151, FIN 362, and ECN 302 (recommended).
This course will provide an introduction and an overview of mergers and acquisitions. In today's world of aggressive and strategic corporate policy-making, this course will not only provide a theoretical framework to prospective business leaders, but will 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 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.

FIN 477. Special Topics in Finance (Subtitle) (1-3 hours)
Prerequisites: junior or senior standing and the consent of the instructor.
This course provides an intensive study of some significant topic in finance that is not otherwise covered by the school’s course offerings. Topics will be chosen by faculty in consultation with students who register for the course.

**FIN 478. Research in Finance (Subtitle)** (1-3 hours)
Prerequisites: junior or senior standing and the consent of the instructor.
This course is a research-oriented course focusing on an important topic in finance that is not otherwise covered by the school’s offerings. The course features student research, independent study, and discussion. Topics will be chosen by faculty in consultation with students who register for the course.

**FIN 494. Honors Thesis** (1 hour)
Prerequisite: admission to the honors program.
This course requires 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.

**FIN 498. Integrated Case Studies in Finance** (3 hours)
Prerequisites: FIN 404, FIN 463, and senior standing.
Emphasis is on corporate financial decision-making through integrated case study analysis that requires integration of the central areas of finance including but not limited to corporate finance, investments analysis, and portfolio and risk management.

**MANAGEMENT (MGT)**

**MGT 250. CEO Leadership Series** (1 hour)
This leadership seminar features lectures by and meetings with chief executive officers of local business and not-for-profit entities. Speakers will vary from year to year. Written reports are required. This course does not count toward any major or minor.

**MGT 251. Quality and Leadership** (1 hour)
This course is a continuation of MGT 250. This leadership seminar features lectures by and meetings with chief executive officers of local business and not-for-profit entities. Speakers will vary from year to year. Written reports are required. This course does not count toward any major or minor.

**MGT 363. Principles of Management** (3 hours)
Prerequisite: sophomore standing.
This course provides an overview of organizational behavior in business. Students are introduced to the theory and practice for individual, group, and organizational influences on human behavior in relation to management in organizations. Specific topics include perception, personality, motivation, job satisfaction, teamwork, conflict resolution and communication processes. The topics are treated at the individual, group, and organization level to prepare students for the challenges of management.

**MGT 382. Production/Operations Management** (3 hours)
Prerequisites: MGT 363, MAT 133 and STA 126.
In this course, students will analyze production and service operation systems and their relationships with all other functions and activities in an organization. Deterministic and probabilistic models will be used to support decision making.

**MGT 410. Introduction to Sport Management** (3 hours)
Prerequisite: MGT 363.
This course introduces students to the meaning of sport management in terms of scope foundations, issues, and future trends. Job responsibilities and competencies required of sports managers in a variety of sports or sport-related organizations are examined.

**MGT 420. Event Management (3 hours)**
Prerequisites: MGT 363, MKT 361, and senior standing.
This course addresses the lifecycle of an event and the preparations needed to ensure its success. An emphasis is placed on formal project management and professional event coordination.

**MGT 422. Business and Society (3 hours)**
Prerequisite: MGT 363.
This course is a study of the issues, philosophies, and roles that 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.

**MGT 423. Organizational Behavior (3 hours)**
Prerequisite: MGT 363.
This is an advanced course which builds upon the organizational behavior topics introduced in MGT 363. The focus of this course is on acquiring in-depth knowledge and developing interpersonal skills through the study and application of theories and concepts related to individual, group, and organizational dynamics. Specific topics also include job design, climate, culture, power and politics.

**MGT 424. Organization Theory (3 hours)**
Prerequisite: MGT 363.
This course is a philosophical and sociological study of organizations. Particular attention will be given to various ways to make sense of organization theory from a historical perspective. Topics such as organizational structure, design, systems, materiality, technology, culture, power, knowledge, change, and innovation are approached from different theoretical perspectives. Students are encouraged to critically reflect about how these topics relate to organizational dynamics and development.

**MGT 427. Entrepreneurship (3 hours)**
Prerequisites: MGT 363 and MKT 361.
An 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.

**MGT 428. Leadership (3 hours)**
Prerequisite: MGT 363.
This course presents a study of the theory and practice of leadership, particularly as it applies to concepts that deal with social interaction and interpersonal behavior and how the manager influences others through leadership. Examples of real and fictional leaders are discussed.

**MGT 429. Human Resource Management (3 hours)**
Prerequisite: MGT 363; MGT 423 recommended.
This course provides a framework for studying 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.

**MGT 433. Labor-Management Relations** (3 hours)
Prerequisite: MGT 363.
Examination of the historical development and current status of collective bargaining; 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. (Atlanta Campus)

**MGT 434. Management Evolution and Trends** (3 hours)
Prerequisite: MGT 363.
The course examines the chronological development of the major contributions to management thought and tenets. Special attention is given to making students aware of the reasons most management practices and special techniques are utilized. A wide range of readings is used to expose each student to the contributions of other sciences and disciplines to the field of management. (Atlanta Campus)

**MGT 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 each student to apply the concepts learned in class to a real setting. The goal is to study and improve a process within an organization to increase quality, productivity, and customer satisfaction and to reduce costs.

**MGT 472. International Management and Marketing** (3 hours)
(Cross-listed with MKT 472)
Prerequisites: MGT 363 and MKT 361.
The course provides the opportunity to study, at an advanced level, 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. Students may not receive credit for both MGT 472 and MKT 472.

**MGT 477. Special Topics in Management (Subtitle)** (1-3 hours)
Prerequisites: junior or senior standing and the consent of the instructor.
This course provides an intensive study of some significant topic in management that is not otherwise covered by the school’s course offerings. Topics will be chosen by faculty in consultation with students who register for the course.

**MGT 478. Research in Management (Subtitle)** (1-3 hours)
Prerequisites: junior or senior standing and the consent of the instructor.
This is a research-oriented course focusing on an important topic in management that is not otherwise covered by the school’s offerings. The course features student research, independent study, and in depth discussions.

**MGT 494. Honors Thesis** (1 hour)
Prerequisite: admission to the honors program.
This course requires 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 suc-
cessive semesters (including summer). Only grades of satisfactory or unsatisfactory will be assigned.

**MGT 498. Strategic Management and Business Policy**  
(3 hours)  
Prerequisites: ACC 204, ACC 205, BUS 346, ECN 150, ECN 151, FIN 362, MGT 363, MKT 361, and senior standing.  
This course focuses on confronting the problems and challenges of business organizations from the point-of-view of the chief executive officer. Students will be required to provide written analyses of in-depth cases that require each student to view decisions in terms of their impact on the total organization. Oral discussion and conceptual skills are also stressed.

**MGT 499. Management Simulation**  
(3 hours)  
Prerequisite: completion of the entire business core.  
This course is a management simulation through the use of a computer model. 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. This course is ordinarily taken late in the senior year. (Atl)

**MARKETING (MKT)**

**MKT 361. Principles of Marketing**  
(3 hours)  
Prerequisite: sophomore standing.  
This course focuses on the role of the marketing function in planning and implementing objectives of the firm. Topics include analysis of consumer markets, industrial markets, channels of distribution, product and pricing policies, sales forecasting, promotion, and control.

**MKT 415. Marketing Research**  
(3 hours)  
Prerequisites: MKT 361 and STA 126.  
This course is a study of the methods and procedures designed to provide management with information on decisions made. The gathering and analysis of data in business and public organizations are heavily emphasized. Topics include the use of secondary data, and appropriate sampling and research methodologies for collecting primary data.

**MKT 417. Advertising**  
(3 hours)  
Prerequisite: MKT 361 or consent of instructor.  
The course surveys the nature, procedure, practices, and results of advertising from the marketing perspective. It focuses on the formulation of advertising strategies and includes discussions 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.

**MKT 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 a 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.
MKT 442. Consumer Behavior (3 hours)
Prerequisite: MKT 361.
This course examines behavioral science research findings, principles, and theories, especially those from psychology, sociology and anthropology. Specific topics include consumer motives, attitudes, expectations, involvement, culture, family influence, and consumer decision making behavior. A variety of learning strategies are utilized to develop the skills necessary to develop creative marketing strategies that are applicable in specific consumer situations.

MKT 472. International Management and Marketing (3 hours)
(Cross-listed with MGT 472)
Prerequisites: MGT 363 and MKT 361.
The course provides the opportunity to study, at an advanced level, 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. Students may not receive credit for both MGT 472 and MKT 472.

MKT 475. Marketing Management (3 hours)
Prerequisites: MKT 361, MKT 415, MGT 363, STA 126, and MAT 141 (or MAT 191), and senior standing.
This course provides students the opportunity to study, at an advanced level, the major issues and problem areas facing marketing executives with an emphasis on policy-setting. Public and non-profit organizations will be included in the discussions, with strong consideration of the consumer, legal, economic, and political environments and their impacts on decision-making.

MKT 477. Special Topics in Marketing (Subtitle) (1-3 hours)
Prerequisites: junior or senior standing and the consent of the instructor.
This course provides an intensive study of some significant topic in marketing that is not otherwise covered by the school’s course offerings. Topics will be chosen by faculty in consultation with students who register for the course.

MKT 478. Research in Marketing (Subtitle) (1-3 hours)
Prerequisites: junior or senior standing and the consent of the instructor.
This is a research-oriented course focusing on an important topic in marketing that is not otherwise covered by the school’s offerings. The course features student research, independent study, and in depth discussions.

MKT 494. Honors Thesis (1 hour)
Prerequisite: admission to the honors program.
This course requires 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.

SPORTS BUSINESS (SBM)

SBM 320. Facilities Management (3 hours)
Prerequisite: MGT 363.
This course provides students with fundamental knowledge and skills in designing and managing sport and recreational facilities and organizing sport events. This course includes facility requirements and enhancements for both indoor and outdoor areas, planning for events
from routine athletic schedules to special events and tournaments, scheduling of facilities and events, and equipment management. Attention is given to the Americans with Disabilities Act regulations, as well as maintenance of both facilities and equipment. Woven throughout the course are issues of liability and risk management.

**SBM 321. Sports Law** (3 hours)
Prerequisite: BUS 346.
This course explores the evolution of legalities within the dynamic sports landscape, highlighting the blurring line between amateur and professional athletics. The course content focuses on legal foundations, supported by actual case studies, examining how litigation and legislation continue to shape the ever-changing sport industry in a global society.

**SBM 380. Financial Planning for Professional Athletes** (3 hours)
Prerequisite: FIN 362.
This course provides an overview of the financial areas and issues faced by professional athletes. Private wealth management is a growing business around the world and particularly in sports and there is increased demand for professionals who can work with clients to assess and plan needs on a holistic basis.

**SBM 405. Sports Internship** (3 hours)
Prerequisite: BUS 301.
This course is designed to support a student as he or she gains real-world exposure through reading, discussion, and practical work experience in a sports-related industry. The student will be involved in an internship or co-op directly related to his or her current or expected postgraduate employment, thus creating opportunities for examining the fit between personal gifts, desires, and expectations and 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. SBM 305 may be repeated only with permission from the Office of the Associate Dean.

**SBM 460. Sports Marketing Research** (3 hours)
Prerequisite: STA 126.
A thorough introduction to key marketing research principles as they apply to sports business. Interactive lectures combined with in-depth case study analyses prepare students to submit their own original marketing proposals at the end of the class.
The School of Engineering

Wade H. Shaw, Jr., Ph.D., P.E., Dean/Professor
Michael S. Leonard, Ph.D, P.E., Senior Associate Dean/ Professor
Laura W. Lackey, Ph.D, P.E., Associate Dean/ Professor
Makin Thitsa, Assistant Professor

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 are the general education requirements which promote social, cultural, and global awareness, and 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, http://www.abet.org.

In addition to the specializations that lead to a Bachelor of Science in Engineering, the School of Engineering offers two Bachelor of Science (BS) degree programs. The Bachelor of Science in Industrial Management focuses on applying selected engineering tools to management decisions. The Bachelor of Science in Technical Communication provides a foundation in sciences, mathematics and technology with a strong emphasis on communication skills. Both of the BS 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 programs 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.
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. Chris R. Sheridan, Jr., Chris R. Sheridan & Company; Ms. Karen Albrecht, Retired Aviation Executive; Ms. Susan E. Barkley, Hospital Corporation of America; Mrs. Jackie Smith Baxley, HRP Associates; Mr. G. Holmes Bell, IV, Hussey, Gay, Bell & DeYoung, Inc.; Mr. James L. Bond, Public Service Telephone Co.; Mr. Thomas J. Brewer, Jr., Schwartz Precision Manufacturing; Mr. Peter Bryant, Mercer Engineering Research Center; Mr. Malcolm S. Burgess, Jr., Burgess Pigment Company; The Honorable Saxby Chambliss, United States Senate; Mr. Tom Driver, Geotechnical & Environmental Consultants, Inc.; Mr. Eugene C. Dunwody, Sr., Dunwody, Beeland Architects, Inc.; Mr. Arthur L. Grady, Retired Aviation Executive; Mr. Brian C. Highley, FlexMedical Disposables; Mr. John Hodges, Gulfstream Aerospace Corporation; Mr. Deryl W. Isreal, Warner Robins Air Logistics Center; Mr. John Krawczuk, Goodrich; Mr. Reed D. Morren, The Boeing Company; Mr. Al Skelton, Engauge Digital; Mr. Patrick J. Topping, Macon Economic Development Commission; Ms. Rainia Washington, Lockheed Martin Aeronautics Company; Mr. Thomas J. Wicker, Georgia Power Company; and Mr. Tom Wilkason, Raytheon.

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 products 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

320 / MERCER UNIVERSITY
BACHELOR OF SCIENCE
Majors:
Industrial Management
Technical Communication

Minor
Technical Communication

Graduate

MASTER OF SCIENCE IN ENGINEERING
Majors:
Biomedical Engineering
Computer Engineering
Electrical Engineering
Engineering Management
Environmental Engineering
Mechanical Engineering
Software Engineering

MASTER OF SCIENCE
Majors:
Environmental Systems
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 mathematics, science, and engineering courses (excluding developmental mathematics 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.

Full Admission for Transfer Students to the BSE Degree Program
Transfer students who seek full admission to the School of Engineering BSE degree program must satisfy the following conditions:

1) Have a minimum of a 2.5 GPA in all college enrollments;
2) Have a 2.5 GPA or higher in all degree relevant college math, science and engineering courses attempted. Courses are considered degree relevant only if they could be used (were an appropriate grade earned) to satisfy degree requirements in the specialization or program to which the student is seeking transfer admission. For the purpose of this computation, all attempts or individual courses are included.

3) Have completed courses that transfer as CHM 111, PHY 161, MAT 191, and MAT 192.

4) Be in good standing at their previous school—that is, not on warning, probation, suspension, or the equivalent.

Conditional Admission for Transfer Students to the BSE Degree Program

Students who have completed a course which transfers as MAT 133 and have not yet completed CHM 111, PHY 161, MAT 191 and MAT 192, but who are otherwise eligible, may be granted conditional admission to the School of Engineering BSE degree program. Full admission will not be granted until these courses have been completed satisfactorily. Students who are granted conditional admission to the School of Engineering will have their academic performance evaluated at the end of each semester by the Scholarship and Academic Standards Committee of the School of Engineering. Students who have not earned a term average of at least 2.0 in any given semester during this period will be suspended from the School of Engineering. Students conditionally admitted will remain in this status until the four indicated courses are completed with a composite GPA of 2.5 or better (including repeated courses). Students have one calendar year from first admission to the School to satisfy these requirements. In addition:

1) Students must also have an overall GPA of 2.5 or better in all degree relevant courses attempted during the period of the conditional admission.

2) Students must satisfy the general academic standards of the University and/or the School of Engineering.

Students unable to satisfy the requirements of the conditional admission will be suspended from the School of Engineering.

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 its equivalent in other forms of instruction. The normal semester is 15 weeks in length.

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 and the School of Engineering, 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 catalog.

University Honors Program in the School of Engineering (UHP)
(formerly Engineering Honors Program)

Dr. Philip McCreanor, Director

The University Honors Program (UHP) provides academically advanced students with the supportive environment needed to pursue their intellectual interests through research within distinctive paths of enrichment. The specific goals of the program include:

- Cultivating students who ask questions, think well in answering those questions, make interdisciplinary connections in answering those questions, and can construct creative analytical responses when engaged in collaborative or independent problem solving.

- Cultivating students who obtain the distinctive characteristics necessary to compete successfully for graduate and professional school entrance, for national and international fellowships and scholarships, and for leadership roles in the student’s chosen profession.

- Cultivating a community of scholars who are interested in sharing cultural, research, and leadership experiences across the tracks.

Exceptional students, either upon entrance to Mercer or after the end of their first semester, are invited to join the program based upon superior academic records in high school, demonstration of interest in their particular path, and an entrance interview. Each of the tracks is constructed to emphasize growth and development along that track during the student’s career at Mercer, beginning with a first year course introducing students to the foundational concepts, methods, and terminology of academic research and documenta-
tion. In subsequent years, students will progress through their track, culminating in an advanced research and documentation project appropriate to their individual track. In addition to these two basic requirements, University Honors Program students must complete the coursework designated within their individual tracks, maintain a portfolio of their work that contains both developmentally appropriate content and reflection, participate in a designated number of University Honors Program experiences, and maintain a minimum GPA as defined by their specific track.

General Requirements of the Program

- Completion of a first year research seminar
- Demonstration of the student's growth within the track through the production of appropriate annual products as defined within the track
- Maintenance of a portfolio of work generated by the student through the track
- Presentation of work at BEAR Day, Engineering Expo, or a regional/national conference appropriate to the track
- Completion of a Culminating Project appropriate to the track
- Participation in two University Honors Program Events annually and submission of a reflective essay on each event
- Maintenance of a minimum GPA appropriate to the track

Tracks open to Engineering Students: Mercer Engineering Scholars Track, Mercer International Scholars Track, and Mercer Service Scholars Track. The Mercer Engineering Scholars Track is only open to School of Engineering students. For specific requirements of each track see the section entitled “University Honors Program” in the Academic Information section of this catalog.

EGR 101. Freshman Engineering Honors
EGR 102. Freshman Engineering Honors II
EGR 201. Sophomore Engineering Honors I
EGR 202. Sophomore Engineering Honors II
EGR 301. Junior Engineering Honors I
EGR 302. Junior Engineering Honors II
EGR 401. Senior Engineering Honors I
EGR 402. Senior Engineering Honors II

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 who 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 for one term if his or her term grade point average is below 2.0. Any full-time student who fails to pass a minimum of three hours in any term will be subject to academic suspension for one term. Additionally, students who have demonstrated an inability to complete the special academic requirements of their chosen program of study may be suspended for one term. Also, no course may be taken more than twice in the undergraduate program. Finally, a maximum of four courses may be repeated. Violation of these course repeat limits may lead to suspension for one term. See “Repeating Courses” in the “Academic Information” section of this catalog for further information on the University repeat policy.

Students who have been suspended may be readmitted to the University with permission from an academic dean.

Second Specializations, Majors and Minors

Students who pursue the BSE degree 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, economics, and business administration 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 serve in addition to their primary engineering advisor. Engineering students may pursue 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.

Student Work 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.

In order to receive academic credit for work experience, students will submit periodic reports on their work experiences as related to their engineering studies. These reports will be evaluated by the students’ employers and faculty advisors who will assign a grade at the end of each work period. Students who receive a satisfactory grade for three semesters (or three periods of work experience which include at least 400 hours on the job in each work period) will receive the Industrial Experience Certificate upon graduation.

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 specializations. 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. 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 are available in the Office of Career Services. Students interested in applying for participation in the industrial experience program should contact the Office of Career Services, Mercer University, Macon, GA 31207.

Mercer Engineering Entrepreneurship Education Program

The Mercer Engineering Entrepreneurship Education Program (MEEEP) provides innovative education that instills an action-oriented entrepreneurial mindset in engineering, science and technical undergraduates. All engineering students are introduced to entrepreneurship as part of their required freshman classes. After the freshman year students in MEEEP pursue the following courses:

- MKT 361: Principle of Marketing
- MGT 363: Principles of Management
- MGT 427: Entrepreneurship
- EGR 482: Engineering Innovation and Creativity
- EGR 483: Entrepreneurship in Engineering Design

EGR 482 may be used as a technical elective with the approval of a student's faculty advisor.

Students who complete all of the above may choose to link their senior design project with MEEEP by preparing an Entrepreneurial Business Plan subject to approval by the MEEEP Committee. Students who complete all MEEEP requirements are awarded a Certificate of Achievement in Engineering Entrepreneurship.
**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 catalog. Depth is achieved by adding to the core foundation a set of courses in one area of specialization. The areas of specialization available are:

- Biomedical
- Computer
- Electrical
- Environmental
- Industrial
- Mechanical

The student educational objectives that have been established for the BSE 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. Graduates will demonstrate attainment of this objective within the first five years following graduation by their proficiency in use of modern engineering tools, their production of high quality products and processes, and their sound engineering judgment.

2. Work effectively in a variety of contexts using superior communication skills, knowledge of contemporary issues with a commitment to professional ethics and lifelong learning. Graduates will demonstrate attainment of this objective within the first five years following graduation by their significant contributions to the success of their work teams, by their effective written and oral communications, by their demonstrated sensitivity to the ethical dimensions of professional practice, and by their successful use of opportunities to master new technologies.

3. Pursue additional graduate or professional education. Graduates will demonstrate attainment of this objective within the first five years following graduation by achieving one or more of the following: successful use of opportunities for licensure, certification, and professional development; and/or by their engagement in, or successful completion of, graduate education.

4. Participate in their local and global communities through sustaining service and leadership. Graduates will demonstrate attainment in this objective within the first five years following graduation by their service and/or leadership roles in community organizations, and by their participation in professional societies to promote professional practice.

The student outcomes that have been established for the BSE program are as follows. Students by the time of graduation will know and have:

- An ability to apply knowledge of mathematics, science, and engineering;
- An ability to design and conduct experiments, as well as to analyze and interpret data;
- An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability;
- An ability to function on multidisciplinary teams;
- An ability to identify, formulate, and solve engineering problems;
- An understanding of professional and ethical responsibility;
- An ability to communicate effectively;
- The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context;
- A recognition of the need for, and an ability to engage in life-long learning; and
- A knowledge of...
of contemporary issues; and (k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Mercer engineering seniors are required to exhibit their ability to conduct appropriate analysis and design 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 engineering students are strongly encouraged 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 Examiners for Engineering and Surveying. 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.

General Education Requirements

For the degree Bachelor of Science in Engineering:

1. Communication and Writing (minimum of 3 hours)
   TCO 141 (written and oral communication)

2. Religion (minimum of 3 hours)
   at least one course selected from: CHR 101, CHR 150, CHR 170; ENG 225; HIS 160; PHI 240; GBK 203

3. Humanities/Fine Arts (minimum of 3 hours)
   at least one course selected from: ART 106, ART 107, ART 115, ART 116, ART 223, ART 224, ART 225, ART 226, ART 254; CLA 101, CLA 102; CHR 210, CHR 270; ENG 224, ENG 226, ENG 263; ENG 264; ENG 233; ENG 234; ENG 235; GBK 202, GBK 305; HIS 110, HIS 145, HIS 165; JMS 220; JMS 225; MUS 151; PHI 190; PHI 230, PHI 260, PHI 265, PHI 269; PHO 230; THR 115, THR 218; WLT 101

4. Behavioral/Social Science (minimum of 3 hours)
   at least one course selected from: AFR 190; AFR 210; ANT 101; COM 230; COM 250; ECN 150; ECN 151; ENV 250; GBK 306; GEO 111; JMS 101; PHI 237; POL 101; POL/IAF 253; PSY 101; SEP 200; SOC 101; WGS 180

5. Quantitative Reasoning (minimum of 8 hours)
   MAT 191, MAT 192

6. Scientific Reasoning (minimum of 12 hours)
   CHM 111, PHY 161, and at least one course selected/required from: BIO 110; BIO 202; CHM 112 (required by BME, EVE); ENB 105; ENB 110; ENB 150; PHY 115; PHY 162 (required by BME, CPE, ECE)

Total BSE General Education Hours required: 32

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 qual-
ify for admission to the graduate program. The dual degree program is available for the follow-
ing programs: Biomedical Engineering, Computer Engineering, Electrical Engineering, Engineering Management, Environmental Engineering, Mechanical Engineering, and Software Engineering. Please see the graduate section near the back of this catalog for more information about this program.

Engineering Core Requirements

In addition to the General Education requirements for the BSE, the engineering core is a set of required courses taken by all BSE students. Most of the freshman and sophomore courses are dedicated to basic subject matter in writing, speaking, mathematics, laboratory 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 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.

Bachelor of Science in Engineering (BSE)
Degree Requirements: Core Courses

1. University Requirement .................................................................1 hour
   UNV 101. The First-Year Student Experience

2. Additional Mathematics Course .................................................3 hours
   MAT 330

3. Engineering Courses ................................................................32 hours
   EGR 107. Intro to Engineering Design
   EGR 126. Programming for Engineers
   EGR 232. Statics/Solid Mechanics
   EGR 235. Thermodynamics
   EGR 236. Dynamics
   EGR 244. Electrical Fundamentals I
   EGR 245. Electrical Fundamentals II
   EGR 246L. Electrical Fundamentals II Lab
   EGR 312. Engineering Economy
   EGR 386. Feedback Control

4. Additional Technical Communication Course ............................3 hours
   TCO 341. Technical Communication

5. Humanities/Social Science/Communications Electives ................6 hours
   at least two courses selected from areas prefixed by: AFR, ANT, ART, CHR, CLA, COM, ECN, ENG, ENV, GEO, GHS, HIS, JMS, MUS, PHI, PHO, POL, PSY, SEP, SOC, THR, WLT, WGS, GBS, TCO, or courses in modern languages (CHN, FRE, GER, LAT, or SPN)

Total Core Course Semester Hours Required.................................45 hours
More detailed information regarding the suggested term for completion of the Engineering Core requirements appears in the specialization presentations shown elsewhere in this catalog.

**EGR Courses**

**EGR 101. Freshman Engineering Honors** (1-0-1)
Prerequisites: outstanding high school GPA and SAT score. Permission of the dean.
Corequisites: 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 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.

**EGR 102. Freshman Engineering Honors II** (1-0-1)
Prerequisite: EGR 101.
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.

**EGR 107. Introduction to Engineering Design** (2-3-3)
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 design projects 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.

**EGR 126. Programming for Engineers** (3-0-3)
Prerequisite: be a fully admitted student in the School of Engineering or have the written permission of the Dean.
Computer programming and the use of computers to solve engineering problems. 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.

**EGR 190-290-390-490. Cooperative Education Work Experience** (0-1-1)
Prerequisites: minimum GPA of 2.50; approval of the Office of Career Services and faculty advisor. Satisfy resident credit requirements. Four month work periods alternated with academic semesters.

**EGR 201. Sophomore Engineering Honors I** (1-0-1)
Prerequisite: EGR 102.
Each student develops a personal project plan for the remainder of the engineering honors experience. This course is graded S/U.

**EGR 202. Sophomore Engineering Honors II** (1-0-1)
Prerequisite: EGR 201.
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.
EGR 232. Statics/Solid Mechanics (3-0-3)
Corequisites: MAT 192, PHY 161.

EGR 235. Thermodynamics (3-0-3)
Prerequisites: MAT 192, PHY 161.
A first course in the fundamentals of thermodynamics. 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 cycle analysis. Use of these principles in the analysis and solution of engineering problems.

EGR 236. Dynamics (3-0-3)
Prerequisites: EGR 232, MAT 192, PHY 161.
Planar kinematics of particles and rigid bodies. Planar kinetics of particles and rigid bodies: force and acceleration, work and energy, and impulse and momentum.

EGR 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.

EGR 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, three-phase systems and power, and stepper motors.

EGR 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.

EGR 252. Probability and Statistics for Engineers (3-0-3)
Prerequisite: C or better in MAT 191.

EGR 301. Junior Engineering Honors I (1-0-1)
Prerequisite: EGR 202.
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.
EGR 302. Junior Engineering Honors II (1-0-1)  
Prerequisite: EGR 301.  
Each student works with a faculty advisor in accordance with a personal project that was approved for the remainder of the engineering honors experience. This course is graded S/U.

EGR 312. Engineering Economy (3-0-3)  
Prerequisite: 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.

EGR 386. Feedback Control and Modeling for Engineers (3-0-3)  
Prerequisite: MAT 330.  
Corequisites: EGR 236, EGR 245.  
Solving linear time-invariant differential equations using Laplace transforms. Transient response for first and second order systems, including time constants, damping ratio, natural frequencies, overshoot and settling time. Relative and absolute stability. Analytical and empirical modeling of engineering systems. Control engineering topics including block diagrams, Routh Hurwitz, root locus and bode plots. Introduction to PID and lead/lag compensators and to design of feedback control systems with root locus, bode and/or simulation.

EGR 401. Senior Engineering Honors I (1-0-1)  
Prerequisite: EGR 302.  
Each student submits a draft version of his or her Engineering Honors Report. This course is graded S/U.

EGR 402. Senior Engineering Honors II (1-0-1)  
Prerequisite: EGR 401.  
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.

EGR 482. Engineering Innovation and Creativity (3-0-3)  
Prerequisites: senior standing or permission of MEEEP Director.  
This is an engineering technical elective open to those students who have selected and been accepted into the MEEEP. The course will focus on integrating elements of entrepreneurship with engineering. New venture creations and creation of new product lines within existing businesses are analyzed through case studies and semester projects. Students will develop a business plan associated with their senior design projects.

EGR 483. Entrepreneurship in Engineering Design (0-1-0)  
Prerequisites: EGR 482; BME 487, ECE 485, ECE 487, EVE 487, ISE 487, or MAE 487.  
Student seminars and advising for assessment of business plans related to entrepreneurship and innovation in an engineering design project.  
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 permission of the Dean.

EGR 191-192-193. Special Topics (1-6 hours)  
EGR 291-292-293. Special Topics (1-6 hours)
Biomedical 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 engineers 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 specialization students are strongly encouraged to excel academically so that graduate/professional school is an option.

Academic Requirements for BSE, Biomedical Specialization

In addition to the retention, graduation, and academic requirements of Mercer University and the School of Engineering, students choosing the biomedical specialization must maintain a Mercer grade point average of at least 2.0 in required biomedical specialization courses and technical electives.

Departmental Honors for BSE, Biomedical Specialization

Each year, the engineering faculty in the biomedical specialization determines the graduating biomedical specialization student who has best distinguished himself or herself and recognizes this student as the Outstanding Engineering Graduate in the Biomedical Specialization.

The BSE Curriculum, Biomedical Specialization

The goals of the biomedical specialization curriculum are to produce graduates who can effectively accomplish biomedical engineering design and analysis, who can effectively communicate orally and in writing, and 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 specialization 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 specialization 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 Science in Engineering (MSE) in Biomedical Engineering degree is available to the top academic students and also includes the emphasis of minor-ing in another engineering discipline. The emphasis of this degree is on the practice of engineering. Students accepted into the MSE program begin combined BSE and MSE studies at the beginning of their senior year. The two degrees are awarded simultaneously upon graduation. The MSE 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 BSE biomedical specialization graduation requirements. Application to the program is done at the beginning of the sophomore year and is initiated by contacting the Chair of the Biomedical Engineering Department. 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. More information may be obtained from the Chair of the Biomedical Engineering Department.

Bachelor of Science in Engineering (BSE)
Degree Requirements: Biomedical Specialization—Traditional Path

1. BSE General Education ..........................................................32 hours
   (includes PHY 162)

2. Engineering Core ..........................................................45 hours

3. Additional Mathematics ..................................................3 hours
   MAT 293 Multivariable Calculus

4. Additional Science ......................................................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

5. 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 Lab
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

6. Technical Electives ..........................................................................................9 hours
   Technical electives are advanced engineering, science, and math courses chosen
   by the student with the approval of the student's faculty advisor for the purpose of
   providing additional depth in areas of special interest to the student. Students pur-
   suing the MSE degree must select technical electives consistent with minor
   requirements in another engineering discipline. Students are strongly encouraged
   to pursue post baccalaureate education.

Total Semester Hours Required (Traditional Path) ........................................129 hours

Degree Requirements: Biomedical Specialization—Pre-Medical Path

1. BSE General Education ..................................................................................32 hours
   (includes PHY 162)

2. Engineering Core ..........................................................................................45 hours

3. Additional Science .........................................................................................26 hours
   BIO 211. Introduction to Biology I
   BIO 212. Introduction to Biology II
   BIO 325. Comparative Animal Physiology
   CHM 112. General Chemistry II
   CHM 221. Organic Chemistry I
   CHM 222 Organic Chemistry II

4. 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 Lab
   BME 440. Dynamics of Biological Fluids
   BME 460. Biomedical Materials
   BME 470. Biomedical Applications/Microprocessors
5. Technical Electives  

Technical electives are advanced engineering, science, and math courses chosen by the student with the approval of the student's faculty advisor for the purpose of providing additional depth in areas of special interest to the student. Students pursuing the MSE degree must select technical electives consistent with minor requirements in another engineering discipline. Students are strongly encouraged to pursue post baccalaureate education.

Total Semester Hours Required (Traditional Path) ...........................................133 hours

Biomedical Specialization-Traditional Path

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<th>Freshman Year</th>
<th>Fall Semester</th>
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### Senior Year

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### Biomedical Specialization Pre-Med Path

#### Freshman Year

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#### Sophomore Year

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<td>BIO 325 Comp Animal Phys.</td>
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<td>BME 440 Dynamics of Bio Fluids</td>
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### Fifth Year

See Master of Science in Engineering (MSE) Degree Programs in the Graduate section of this catalog.

### BME Courses

**BME 288. Introduction to Biomedical Engineering**

(0-3-1)

Prerequisite: EGR 126.

An introduction to LabVIEW programming language and to biomedical engineering. Ethics in biomedical engineering will be introduced.

**BME 310. Numerical Methods for Biomedical Engineers**

(3-0-3)

Prerequisite: MAT 330.

The course objectives are to build concrete concepts/ideas and skills of numerical methods and to apply these to solve engineering and scientific problems for Biomedical Engineers. Topics include modeling, computers, error analysis, roots of equations, linear algebraic equations, optimization, curve fitting, numerical differentiation, ordinary differential equations, and partial differential equations. MATLAB is the main computer software to solve problems numerically. Independent course project is required.

**BME 402. Biomedical Instrumentation**

(2.5-1.5-3)

Prerequisite: EGR 245, and 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.

**BME 412. Biomechanics**

(3-0-3)

Prerequisites: EGR 232, EGR 236.


**BME 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.
BME 425. Basic Transport Phenomena (2.5-1.5-3)
Prerequisites: MAT 330 and a C or better in EGR 235.
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.

BME 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.

BME 440. Dynamics of Biological Fluids (3-0-3)
Prerequisites: BME 425.

BME 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.

BME 450. Advanced BioFluids (3-0-3)
Prerequisites: BME 440 or MAE 430 (or permission of instructor).
The course objectives continue to build on advanced theories and solution techniques related to biological fluid flow phenomena primarily concentrating on the flows in cardiovascular and respiratory systems. Topics covered include: hemodynamics in carotid artery bifurcations, coronary arteries, abdominal bifurcations, arterial anastomoses, and air-particle transport in the lung airways. Computational fluid dynamics modeling and simulation are the tools to solve the flow phenomena numerically. A group project report and presentation, in the form of a conference paper/presentation, are required.

BME 460. Biomedical Materials (3-0-3)
Prerequisites: BIO 205 or BIO 211, 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.

BME 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.
BME 480. Introduction to Senior Design (0-1-0)
Corequisites/Prerequisites: BME 402, BME 425, EGR 312, 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.

BME 487. Engineering Design Exhibit I (0-6-2)
Prerequisites: EGR 312, TCO 341, BME 402, BME 425, and BME 480. Must have completed all required 100- and 200-level engineering, mathematics, and science courses.
Corequisites: 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.

BME 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 the Chair of the Biomedical Engineering Department.

BME 491-492-493. Special Topics (1-6 hours)
BME 498. Professional Seminar (1-6 hours)
BME 499. Independent Study (1-6 hours)

Computer Specialization
The central focus of the computer 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 specialization. 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 engineering programs with a computer specialization 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 Specialization

The computer specialization builds upon the base provided by the engineering core and general studies. Beyond this base, the curriculum is composed of two parts; computer specialization 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 specialization courses require a C or better in ECE, EGR, and CSC prerequisites. Students must also maintain a minimum cumulative grade point average of 2.0 in courses with the ECE and CSC prefix. Computer specialization students must complete the key foundation courses in the discipline before enrolling in senior design ECE 485.

Departmental Honors for BSE, Computer Specialization

Each year, the engineering faculty in the computer specialization determines the graduating computer engineering student who has best distinguished himself or herself and recognizes this student as the Outstanding Engineering Graduate in the Computer Specialization.

Bachelor of Science in Engineering (BSE) Degree Requirements: Computer Specialization

1. BSE General Education .................................................................32 hours
   (includes PHY 162)
2. Engineering Core .................................................................45 hours
3. Additional Mathematics ..........................................................4 hours
   MAT 225. Topics in Discrete Mathematics
4. Required ECE and CSC Courses ..............................................45 hours
   ECE 202. Signals and Systems
   CSC 204. Programming I
   CSC 205. Programming II
   CSC 245. Data Structures and Algorithm Analysis
   CSC 480. Software Engineering
   ECE 322. Digital Logic and Computer Organization
   ECE 323. Microcomputer Fundamentals
   ECE 340. Electromagnetic Applications
   ECE 424. Digital Design with VHDL
   ECE 425. Introduction to Computer Architecture
   ECE 428. Embedded Computer Systems
   ECE 455. Computer Networks
   ECE 4XX. ECE Tech Elective
   ECE 481. Introduction to Senior Design - Computer Specialization
   ECE 485. Engineering Design Exhibit I - Computer Specialization
   ECE 486. Engineering Design Exhibit II - Computer Specialization
5. **Technical Electives**

Technical electives are chosen by the student with the approval of the student's faculty advisor for the purpose of advancing the student's academic goals. Technical electives must be selected from a list provided by the computer specialization faculty, and must provide depth and appropriate design content in computer engineering areas.

**Total Semester Hours Required**

129 hours

### Computer Specialization

#### Freshman Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 111</td>
<td>EGR 107 Intro to Engr Design</td>
</tr>
<tr>
<td>EGR 126</td>
<td>TCO 141 Intro to Prof Comm</td>
</tr>
<tr>
<td>MAT 191</td>
<td>MAT 192 Calculus II</td>
</tr>
<tr>
<td>UNIV 101</td>
<td>PHY 161 General Physics I</td>
</tr>
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<td>XXX</td>
<td>XXX Gen Ed Grp 2/3/4</td>
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<tr>
<td></td>
<td>Total 14 3 15</td>
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</table>

#### Sophomore Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGR 232</td>
<td>CSC 204 Prog I</td>
</tr>
<tr>
<td>EGR 244</td>
<td>ECE 322 Digital Logic</td>
</tr>
<tr>
<td>MAT 330</td>
<td>EGR 236 Dynamics</td>
</tr>
<tr>
<td>PHY 162</td>
<td>EGR 245 Electrical Fund II</td>
</tr>
<tr>
<td>XXX</td>
<td>EGR 246L Electrical Fund Lab</td>
</tr>
<tr>
<td></td>
<td>ECE 202 Signals and Systems</td>
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<td>Total 15 5 17</td>
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</table>

#### Junior Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 205</td>
<td>CSC 245 Data Struct and Algo</td>
</tr>
<tr>
<td>TCO 341</td>
<td>ECE 428 Embedded Comp Sys</td>
</tr>
<tr>
<td>ECE 323</td>
<td>ECE 481 Intro to Senior Design</td>
</tr>
<tr>
<td>MAT 225</td>
<td>EGR 235 Thermodynamics</td>
</tr>
<tr>
<td>ECE 424</td>
<td>EGR 386 Feedback Control</td>
</tr>
<tr>
<td></td>
<td>EGR 252 Prob &amp; Stats for Engr</td>
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<td></td>
<td>Total 15 9 18</td>
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</table>

#### Senior Year (Standard BSE program)

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 480</td>
<td>ECE 455 Computer Networks</td>
</tr>
<tr>
<td>ECE 340</td>
<td>ECE 486 Engr Design Exhibits II</td>
</tr>
<tr>
<td>ECE 425</td>
<td>ECE 4xx Tech Elective</td>
</tr>
<tr>
<td>ECE 485</td>
<td>EGR 312 Engineering Economy</td>
</tr>
<tr>
<td>ECE 4xx</td>
<td>XXX Hum/SS/Comm Elec.</td>
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<tr>
<td>XXX</td>
<td>Total 15 6 17</td>
</tr>
</tbody>
</table>

342 / MERCER UNIVERSITY
**Integrated Bachelor of Science in Engineering /Master of Science in Engineering in Computer Engineering**

Students who complete the first three years of the Bachelor of Science in Engineering with a Computer Specialization or in any engineering specialization with appropriate computer courses included and with grades which qualify them for graduate study may directly pursue the 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 in Computer Engineering or in Electrical Engineering degrees. See the graduate studies section near the back of this catalog for more information about the Integrated Bachelor of Science in Engineering/Masters of Science in Engineering Program.

**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>EGR 312 Engineering Economy</td>
</tr>
<tr>
<td>EGR 235 Thermodynamics</td>
<td>ECE 486 Engr Design Exhibits II</td>
</tr>
<tr>
<td>CSC 460 Operating Systems</td>
<td>ECE 455 Computer Networks</td>
</tr>
<tr>
<td>ECE 485 Engr Design Exhibits I</td>
<td>SSE 554 Object-Orient Design II</td>
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<tr>
<td>SSE 5/6xx Grad Course</td>
<td>XXX Hum/SS/Comm Elec.</td>
</tr>
<tr>
<td>ECE 4xx ECE Technical Elective</td>
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</tr>
<tr>
<td></td>
<td>15 6 17</td>
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</tbody>
</table>

**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/SSE 6xx Grad Course</td>
</tr>
<tr>
<td>ECE 5/6xx Grad Course</td>
<td>ECE/SSE 6xx Grad Course</td>
</tr>
<tr>
<td>XXX Tech Elective</td>
<td>XXX Hum/SS/Comm Elec.</td>
</tr>
<tr>
<td></td>
<td>12 0 12</td>
</tr>
</tbody>
</table>

**Summer Term (Integrated Bachelor of Science in Engineering/ Master of Science in Engineering students only)**

| ECE/SSE 6xx Grad Course | | |
|-------------------------|---|
| 3 0 3                   | |

*Computer Engineers may select either Computer Engineering or Software Engineering for their fifth year Master's degree program. See graduate section of this catalog for 600-level graduate course information.

**Electrical 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 function-ning 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 Specialization**

The electrical specialization builds upon the base provided by the engineering core and general studies. Beyond this base, the curriculum is composed of two parts; electrical specialization required courses and technical electives. Approved technical elective courses enable students to deepen their background in electrical and computer specializations 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 specialization courses require a C or better in ECE and EGR prerequisites. Students must also maintain a minimum cumulative grade point average of 2.0 in courses with the ECE prefix. Engineering students in the Electrical specialization must complete the key foundation courses in the discipline before enrolling in senior design, ECE 487.

**Departmental Honors for BSE, Electrical Specialization**

Each year, the engineering faculty in the electrical specialization determines the graduating electrical specialization student who has best distinguished himself or herself and recognizes this student as the Outstanding Engineering Graduate in the Electrical Specialization.

**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 an engineering degree in the electrical specialization 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 BSE Curriculum, Electrical Specialization**

The electrical specialization 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 Specialization

1. BSE General Education ................................................................................32 hours
   (includes PHY 162)

2. Engineering Core ..........................................................................................45 hours

3. Additional Mathematics ...................................................................................3 hours
   MAT 293. Multivariable Calculus

4. Required ECE Courses .................................................................................46 hours
   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 340. Electromagnetic Applications
   ECE 341. Electromagnetic Field Theory
   ECE 431. Analog and Digital Signal Processing
   ECE 451. Communications I
   ECE 451L. Communications Laboratory
   ECE 452. Digital Communications and Stochastic Processes
   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 - Electrical Specialization
   ECE 487. Engineering Design Exhibit I - Electrical Specialization
   ECE 488. Engineering Design Exhibit II - Electrical Specialization

5. Technical Electives ..........................................................................................3 hours
   Electives are chosen by the student with the approval of the student's faculty advi-
   sor for the purpose of advancing the student's academic goals. The four ECE Senior
   Design Electives are selected from a list of ECE courses provided by the electrical
   specialization faculty. The additional Technical Elective is selected from a list of engi-
   neering, mathematics, computer science, chemistry, and physics courses provided
   by the electrical specialization faculty.

Total Semester Hours Required ...........................................................................129 hours
## Electrical Specialization

### Freshman Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 111 General Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>EGR 126 Programming for Engr</td>
<td>3</td>
</tr>
<tr>
<td>MAT 191 Calculus I</td>
<td>4</td>
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<tr>
<td>UNV 101 Freshman Experience</td>
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<td>XXX Gen Ed Grp 2/3/4</td>
<td>3</td>
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<td><strong>Total</strong></td>
<td><strong>14</strong></td>
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</table>

### Sophomore Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGR 232 Statics/Solid Mech</td>
<td>3</td>
</tr>
<tr>
<td>EGR 244 Electrical Fund I</td>
<td>3</td>
</tr>
<tr>
<td>MAT 330 Intro to Diff Eqns</td>
<td>3</td>
</tr>
<tr>
<td>PHY 162 General Physics II</td>
<td>3</td>
</tr>
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<td>XXX Gen Ed Grp 2/3/4</td>
<td>3</td>
</tr>
<tr>
<td>EGR 252 Prob &amp; Stats for Engr</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
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### Junior Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 311 Electronics I</td>
<td>3</td>
</tr>
<tr>
<td>ECE 323 Microcomputer Fund</td>
<td>2</td>
</tr>
<tr>
<td>ECE 431 Analog/Digital Sig Proc</td>
<td>3</td>
</tr>
<tr>
<td>EGR 386 Feedback Control</td>
<td>3</td>
</tr>
<tr>
<td>MAT 293 Multivariable Calculus</td>
<td>3</td>
</tr>
<tr>
<td>ECE 340 Electromagnetic Applic</td>
<td>3</td>
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<tr>
<td>TCO 341 Tech Communication</td>
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</table>

### Senior Year (Standard BSE program)

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 451 Communications I</td>
<td>3</td>
</tr>
<tr>
<td>ECE 451L Comm Lab</td>
<td>0</td>
</tr>
<tr>
<td>ECE 487 Eng Design Exhibit I</td>
<td>0</td>
</tr>
<tr>
<td>ECE 4xx ECE Technical Elect</td>
<td>3</td>
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<tr>
<td>ECE 4xx ECE Technical Elect</td>
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<td>XXX Hum/SS/Comm Elec.</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

### Integrated Bachelor of Science in Engineering/Master of Science in Engineering, Electrical Specialization*

Students who complete the first three years of the Bachelor of Science in Engineering with an electrical specialization with grades which qualify them for graduate study may directly pursue the 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 in Electrical Engineering or in Computer Engineering degrees. See the graduate studies section near the back of this catalog for more information about the integrated Master of Science in Engineering programs.

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### 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 451</td>
<td>ECE 488 Eng Design Exhib II</td>
</tr>
<tr>
<td>ECE 451L Comm Lab</td>
<td>ECE 452 Dig Comm &amp; St Proc</td>
</tr>
<tr>
<td>ECE 487 Eng Design Exhibit I</td>
<td>ECE 4xx ECE Technical Elect*</td>
</tr>
<tr>
<td>ECE 4xx ECE Technical Elect*</td>
<td>ECE 4xx ECE Technical Elect*</td>
</tr>
<tr>
<td>ECE 4xx ECE Technical Elect*</td>
<td>ECE 5/6xx Grad Course</td>
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<tr>
<td>ECE 6xx Grad Course</td>
<td>XXX Technical Elective*</td>
</tr>
<tr>
<td><strong>12</strong></td>
<td><strong>15 15 6 17</strong></td>
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</table>

### 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>
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<tbody>
<tr>
<td>ECE 6xx Grad Course</td>
<td>ECE 6xx Grad Course</td>
</tr>
<tr>
<td>ECE 6xx Grad Course</td>
<td>ECE 6xx Grad Course</td>
</tr>
<tr>
<td>ECE 5/6xx Grad Course</td>
<td>ECE 5/6xx Grad Course</td>
</tr>
<tr>
<td>XXX Hum/SS/Comm Elec.</td>
<td>XXX Hum/SS/Comm Elec.</td>
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<tr>
<td><strong>12 0 12</strong></td>
<td><strong>12 0 12</strong></td>
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</tbody>
</table>

### Summer Term (Integrated Bachelor of Science in Engineering/Master of Science in Engineering students only)

| 6xx Grad Course | 3 0 3 |
| 6xx Grad Course | 3 0 3 |
| **6 0 6** |    |

*Electrical Engineers who have a minor in Computer Science may select either Computer Engineering or Software Engineering for their fifth year Master's degree program. See graduate section of this catalog for 600-level graduate course information.

### ECE Courses

**ECE 202. Signals and Systems** (3-0-3)
Prerequisites: C or better in EGR 244, MAT 330.
Signals and systems concepts; linear time-invariant systems; impulse response and convolution; transforms analysis of signals and systems; Fourier Series and Fourier Transforms; frequency-domain analysis of circuits; frequency selective filters; Bode plots; fundamentals of analog filter design.

**ECE 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 use of simulation tools.

**ECE 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 integrated circuits, optoelectron-
ic devices, and to oscillators and filters at video and RF frequencies. Focus hands-on laboratory experiences and the circuit design process.

**ECE 312L. Electronics II Laboratory** (0-3-1)
Corequisite: ECE 312.
Hands-on laboratory experiences with a focus on the circuit design process.

**ECE 322. Digital Logic** (2-0-2)
Corequisite: 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.

**ECE 323. Microcomputer Fundamentals** (2-3-3)
Prerequisite: C or better in ECE 322.
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. Ethics in electrical and computer engineering will be introduced.

**ECE 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.

**ECE 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.

**ECE 410. Analog Filter Design** (3-0-3)
Prerequisites: C or better in ECE 202, C or better in ECE 311.
Principles of active and passive filter design, simulation, and realization. Design and implementation of lowpass, highpass, bandpass, and notch filters. Butterworth, Chebyshev, and elliptic filter design.

**ECE 411. 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.

**ECE 424. Digital Design with VHDL** (3-3-4)
Prerequisite: C or better in ECE 322.
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.
ECE 425. Introduction to Computer Architecture (3-0-3)
Prerequisite: C or better in ECE 323.
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.

ECE 428. Embedded Computer Systems (3-0-3)
Prerequisites: C or better in ECE 323 and C or better in ECE 424.
Design of computer systems as components of larger engineering systems. Emphasis is on real-time applications. Integration of high-level and low-level software components in a real-time environment. The course will emphasize applications which involve hard deadlines for real-time data handling and real-time control of physical systems with a significant lab component.

ECE 431. Analog and Digital Signal Processing (3-0-3)
Prerequisite: C or better in ECE 202.
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 frequency response.

ECE 432. Digital Signal Processing (3-0-3)
Prerequisite: C or better in ECE 431.
Z-transform, design of 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.

ECE 435. Introduction to Data Compression (3-0-3)
Prerequisite: C or better in ECE 431 or consent of the instructor.
Mathematics and techniques for common methods of both lossless and lossy compression of digital data: compression of one-dimensional and two-dimensional signals; Huffman and Tunstall codes; quantization; predictive coding; transform coding; sub-band coding.

ECE 441. Fiber Optic Communications (3-0-3)
Prerequisite: C or better in ECE 431.
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).

ECE 442. Electromagnetic Compatibility (3-0-3)
Prerequisite: C or better in ECE 340.
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.

ECE 443. Antenna Theory (3-0-3)
Prerequisite: C or better in ECE 340.
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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites/Co-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 445</td>
<td>Transmission Lines</td>
<td>3-0-3</td>
<td>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.</td>
</tr>
<tr>
<td>ECE 451</td>
<td>Communication Systems I</td>
<td>3-0-3</td>
<td>C or better in ECE 202, EGR 252. Corequisite: 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.</td>
</tr>
<tr>
<td>ECE 451L</td>
<td>Communications Lab</td>
<td>0-3-1</td>
<td>ECE 451. Software and hardware tools for communication/telecommunication systems experimentation and design, RF system design for communications, simulation of complex communication links.</td>
</tr>
<tr>
<td>ECE 452</td>
<td>Communication Systems II</td>
<td>3-0-3</td>
<td>C or better in ECE 451 or consent of instructor. 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.</td>
</tr>
<tr>
<td>ECE 461</td>
<td>Feedback Control Systems: Digital Control</td>
<td>3-0-3</td>
<td>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.</td>
</tr>
<tr>
<td>ECE 471</td>
<td>Power Systems Fundamentals</td>
<td>3-0-3</td>
<td>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.</td>
</tr>
<tr>
<td>ECE 480</td>
<td>Introduction to Senior Design - Electrical Specialization</td>
<td>0-1-0</td>
<td>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.</td>
</tr>
</tbody>
</table>
ECE 481. Introduction to Senior Design - Computer Specialization (0-1-0)
Corequisites: TCO 341, ECE 202, ECE 323, 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.

ECE 485. Engineering Design Exhibit I - Computer Specialization (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.

ECE 486. Engineering Design Exhibit II - Computer Specialization (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.

ECE 487. Engineering Design Exhibit I - Electrical Specialization (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.

ECE 488. Engineering Design Exhibit II - Electrical Specialization (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 the Chair of the Electrical and Computer Engineering Department.

ECE 491-492-493. Special Topics (1-6 hours)
ECE 498. Professional Seminar (1-6 hours)
ECE 499. Independent Study (1-6 hours)
Environmental Specialization

Environmental consciousness and sustainable design have surfaced as primary initiatives during the last quarter century. The negative effects of modern society on the earth’s natural environment are 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. They also 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. They 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 Specialization

In addition to the retention, graduation, and academic requirements of Mercer University and the School of Engineering, all environmental specialization students must obtain a grade of C or better in EVE 290, EVE 384, and EVE 405. Also, environmental specialization engineering students must maintain a grade point average of at least 2.0 in all courses carrying an EVE prefix.

Departmental Honors for BSE, Environmental Specialization

Each year, the engineering faculty in the environmental specialization determines the graduating engineering student in the environmental specialization who has best distinguished himself or herself, and designates this student as the Dr. Robert Rozett Outstanding Engineering Graduate in the Environmental Specialization.

The BSE Curriculum, Environmental Specialization

The goal of the BSE program with environmental specialization is to produce graduates who are prepared for employment in professional practice or for graduate study. 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. Engineering students in the environmental specialization 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 engineering in the environmental specialization is accomplished through laboratory exercises and experiences. Opportunities for environmental students to deepen and broaden their technical education exist through several avenues.
Bachelor of Science in Engineering (BSE) Degree Requirements:
Environmental Specialization

1. BSE General Education ................................................................................32 hours
   (includes CHM 112)

2. Engineering Core ..........................................................................................45 hours

3. Other Required Courses outside of EVE ......................................................10 hours
   MAE 205. Visualization and Graphics
   (Any two lab-science courses, 8-hours, is required. A subset of the acceptable
courses follows.)
   BIO 205. Introduction to Biology for Engineers
   BIO 211. Introduction to Biology I
   CHM 221. Organic Chemistry I
   CHM 222. Organic Chemistry II
   ENB 105 Geology
   ENB 110. Meteorology
   ENB 150. Introduction to Environmental Science
   ENB 220. Oceanography
   ENB 310 Hydrogeology
   ENB 330. Introduction to Geographic Information Systems
   PHY 115 Descriptive Astronomy

4. Required Environmental Engineering (EVE) courses ...................................27 hours
   EVE 290. Intro to Environmental Engineering
   EVE 290L. Intro to Environmental Engineering Laboratory
   EVE 384. Engineering Hydraulics
   EVE 385. Engineering Hydrology
   EVE 405. Design and Analysis of Wastewater Systems
   EVE 430. Bioremediation
   EVE 445L. Senior Environmental Engineering Laboratory
   EVE 480. Introduction to Senior Design
   EVE 486. Public Health
   EVE 487. Engineering Design Exhibit I
   EVE 488. Engineering Design Exhibit II
   EVE 490. Groundwater Hydrology

5. Environmental Engineering (EVE) Electives ..............................................12 hours
   Environmental Engineering electives are 300/400 level advanced EVE concepts
courses that are chosen by the student with the approval of the student's faculty
advisor.
Technical Electives ........................................................................3 hours

Technical electives are 300/400 level advanced engineering, science and math courses chosen by the student with the approval of the student's faculty advisor for the purpose of providing additional depth in areas of special interest to the student.

Total Semester Hours Required ......................................................129 hours

Environmental Specialization

Freshman Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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</thead>
<tbody>
<tr>
<td>CHM 111 General Chemistry I</td>
<td>EGR 107 Intro to Engr Design</td>
</tr>
<tr>
<td>EGR 126 Programming for Engr</td>
<td>TCO 141 Intro to Prof Comm</td>
</tr>
<tr>
<td>MAT 191 Calculus I</td>
<td>MAT 192 Calculus II</td>
</tr>
<tr>
<td>UNV 101 Freshman Experience</td>
<td>CHM 112 General Chemistry II</td>
</tr>
<tr>
<td>XXX Gen Ed Grp 2/3/4</td>
<td>XXX Gen Ed Grp 2/3/4</td>
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<td>14 3 15</td>
<td>15 6 17</td>
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Sophomore Year

<table>
<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 236 Dynamics</td>
</tr>
<tr>
<td>EGR 244 Electrical Fund I</td>
<td>EGR 235 Thermodynamics</td>
</tr>
<tr>
<td>EGR 244 Electrical Fund I</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>
</tr>
<tr>
<td>PHY 161 General Physics I</td>
<td>EGR 252 Prob &amp; Stats for Engr</td>
</tr>
<tr>
<td>EVE 290L Intro to EVE Lab</td>
<td>XXX Gen Ed Grp 2/3/4</td>
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<td>15 8 18</td>
<td>15 3 16</td>
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Junior Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>EGR 312 Engineering Economy</td>
<td>EVE 384 Engr. Hydraulics</td>
</tr>
<tr>
<td>EVE 4XX Elective</td>
<td>EVE 4XX Elective</td>
</tr>
<tr>
<td>EVE 385 Engineering Hydrology</td>
<td>EVE 405 Des/Anal/WW Sys</td>
</tr>
<tr>
<td>TCO 341 Tech Communication</td>
<td>EVE 480 Intro to Senior Design</td>
</tr>
<tr>
<td>XXX Laboratory Science</td>
<td>XXX Hum/SS/Comm Elec.</td>
</tr>
<tr>
<td>MAE 205 Visual and Graphics</td>
<td>XXX Laboratory Science</td>
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<td>15 9 18</td>
<td>15 4 16</td>
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Senior Year (Standard BSE Program)

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>EVE 4XX Elective</td>
<td>EVE 4XX Elective</td>
</tr>
<tr>
<td>EGR 386 Feedback Control</td>
<td>EVE 430 Bioremediation</td>
</tr>
<tr>
<td>EVE 486 Public Health</td>
<td>EVE 488 Eng Design Exhib II</td>
</tr>
<tr>
<td>EVE 487 Eng Design Exhibit I</td>
<td>XXX Technical Elective I</td>
</tr>
<tr>
<td>EVE 490 Groundwater Hydrol</td>
<td>XXX Hum/SS/Comm Elec.</td>
</tr>
<tr>
<td>EVE 445L Environmental Lab</td>
<td>XXX Laboratory Science</td>
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<td>12 9 15</td>
<td>12 6 14</td>
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</table>
Integrated Bachelor of Science in Engineering/Master of Science in Engineering, Environmental Specialization

Students who complete the first three years of the Bachelor of Science in Engineering with an environmental specialization with grades which qualify them for graduate study may directly pursue the Master of Science in Engineering degree during their fourth and fifth years of study. A full calendar year, including one or two summer terms, are needed to complete the Master of Science in Engineering in Environmental Engineering degree. See the graduate studies section near the back of this catalog 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>
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<tbody>
<tr>
<td>EVE 4XX Elective</td>
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<tr>
<td>EGR 386 Feedback Control</td>
<td>EVE 430 Bioremediation</td>
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<tr>
<td>EVE 445L Environmental Lab</td>
<td>EVE 480 Intro To Senior Desig</td>
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<tr>
<td>EVE 5XX Grad Course</td>
<td>EVE 6XX Grad Course</td>
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<td>EVE 6XX Grad Course</td>
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**Summer Semester**

<table>
<thead>
<tr>
<th>EGR 6XX Graduate Course</th>
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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>
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<tbody>
<tr>
<td>EVE 6XX Grad Course</td>
<td>EVE 6XX Grad Course</td>
</tr>
<tr>
<td>EGR 5XX Grad Course</td>
<td>EVE 5XX Grad Course</td>
</tr>
<tr>
<td>EVE 486 Public Health</td>
<td>XXX Technical Elective</td>
</tr>
<tr>
<td>EVE 490 Groundwater Hydrol</td>
<td>XXX Hum/SS/Comm Elec.</td>
</tr>
<tr>
<td>EVE 487 Eng Design Exhibit I</td>
<td>EVE 488 Eng Design Exhibit II</td>
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</table>

**Summer Term (Integrated Bachelor of Science in Engineering/Master of Science in Engineering students only)**

<table>
<thead>
<tr>
<th>EGR 6XX Graduate Course</th>
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</table>

The EGR graduate course prefix includes ECE, EGR, ETM, or MAE graduate courses. The senior design sequence can either be taken in the senior or graduate year of study. See graduate section of this Catalog for more information about the Integrated Bachelor of Science in Engineering/Master of Science in Engineering Program.

**EVE Courses**

**EVE 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 bal-
ance principles; pollutant fate and transport characteristics; ethical implications of global business practices.

EVE 290L Introduction to Environmental Engineering Laboratory
Prerequisite: CHM 111.
An introduction to environmental engineering analyses with emphasis on traditional water and wastewater analyses. Parameters to be measured include: pH; alkalinity; hardness; total solids; suspended solids; dissolved solids; chemical oxygen demand; biochemical oxygen demand; dissolved oxygen, making standard solutions; and microbiological techniques.

EVE 384. Engineering Hydraulics
Prerequisite: EVE 290 or consent of instructor.
Introduction to hydrostatics, fluid motion, continuity, momentum, and energy applications. Applications to pipe networks and hydraulic systems. Modeling of water distribution systems and engineering ethics.

EVE 385. Engineering Hydrology
Prerequisite: EVE 290 or consent of instructor.
Precipitation, evaporation, consumptive use, infiltration, flood routing; statistical analysis of hydrological data; introduction to urban drainage design; and modeling of hydrologic systems.

EVE 402. Air Pollution Generation and Control
Prerequisite: EVE 290.
Fundamental concepts including the origin and fate of air pollutants. Basic concepts of atmospheric chemistry and meteorology, atmospheric dispersion phenomena, governmental regulations, emission and air-quality standards. Design of processes and equipment for control of gaseous and particulate emissions. Current issues.

EVE 403. Atmospheric Chemistry I
Prerequisite: EVE 290.
An introduction to atmospheric chemical transformations; atomic structure and chemical bonding; thermodynamics, gas-phase kinetics, and photochemistry; tropospheric processes; stratospheric processes.

EVE 405. Design and Analysis of Wastewater Systems
Prerequisite: EVE 290.
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.

EVE 406. Design and Analysis of Water Systems
Prerequisite: EVE 290.
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.

EVE 420. Solid Waste Management
Prerequisites: CHM 112 and EVE 290.
Chemical, mechanical and biological equipment and instrumentation for the collection, processing and disposal of solid wastes are studied and designed. Federal, state, and local regulations regarding generation and disposal of wastes are covered. Handling and recycling of municipal wastes is emphasized.
EVE 430. Bioremediation (3-0-3)
Prerequisite: EVE 405 or consent of instructor.
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.

EVE 445L. Senior Environmental Engineering Laboratory (0-3-1)
Prerequisites: Senior standing; EVE 290L.
Laboratory investigation of unit operations and processes in environmental engineering. Emphasis is placed on experiment design and analysis of results using modern techniques, skills, and tools. Various bench-scale experiments are performed and assessed using standard environmental microbiological, wet chemistry, and instrumental analytical techniques.

EVE 480. Introduction to Senior Design (0-1-0)
Corequisites: TCO 341 and EVE 405.
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.

EVE 486. Public Health (3-0-3)
Prerequisites: senior standing and EGR 252.
Public health engineering principles for protection against biological and chemical hazards. Introduction to toxicology and epidemiology. Basic risk assessment concepts as applied to water, airbourne, and toxic pollutants. Emphasis on major communicable diseases that plague mankind, organisms that cause them, routes of transmission, and engineering control methods. Appropriate control methods, for rural areas and developing countries.

EVE 487. Engineering Design Exhibit I (0-6-2)
Prerequisites: TCO 341, EVE 405, EVE 384, 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 reports.

EVE 488. Engineering Design Exhibit II (0-6-2)
Prerequisite: 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.

EVE 490. Groundwater Hydrology (3-0-3)
Prerequisite: EVE 385.
Fundamental theories and properties of porous media, groundwater movement, and geological factors are presented. This course emphasizes development of fundamental governing equations and the determination of aquifer formation constants. The design of production and monitoring wells and the development of aquifer testing plans are introduced.
SPECIAL COURSES: EVE 491, 492, 493, 498, 499 for variable credit. May be repeated for...
credit with approval of academic advisor and Chair of the Environmental Engineering Department.

**SPECIAL COURSES:** EVE 491, 492, 493, 498, 499 for variable credit. May be repeated for credit with approval of academic advisor and the Chair of the Environmental Engineering Department.

**Industrial 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 industrial specialization at Mercer draws upon four foundational areas—management science, the application of mathematical techniques to solve management problems; ergonomics, the study and design of the interaction between humans and machines; manufacturing, the design and development of processes and systems to transform inputs to products; and quality, the application of statistical methods and managerial principles to improve the quality of products and services. This broad base provides industrial specialization students at Mercer with a solid and varied background.

**Academic Requirement for BSE, Industrial Specialization**

In addition to the retention, graduation, and academic requirements of the University and the School of Engineering, the student in the industrial specialization 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, Industrial Specialization**

Each year, the faculty in the industrial specialization determines the graduating industrial specialization student who has best distinguished himself or herself and recognizes this student as the Outstanding Engineer Graduate in the Industrial Specialization.

**The BSE Curriculum, Industrial Specialization**

The industrial specialization undergraduate program prepares graduates to use techniques such as application of probability and statistics, modeling and simulation, and optimization methods to analyze engineering problems. Engineering design in the industrial specialization places special emphasis on factors such as ergonomics, safety, and engineering economics.
Bachelor of Science in Engineering (BSE)
Degree Requirements: Industrial Specialization

1. BSE General Education ................................................................................32 hours
   (ISE Students are strongly encouraged to include ECN 150 or ECN 151 as part of
   their General Education Requirements.)

2. Engineering Core .........................................................................................45 hours

3. Required ISE Courses ..................................................................................31 hours
   ISE 288. Intro. to Industrial Engineering and Mfg. Engineering
   ISE 302. Management Science/Operations Research
   ISE 311. Ergonomics and Work Measurement
   ISE 327. Statistical Process and Quality Control
   ISE 352. Design of Experiments
   ISE 362. Production Planning and Control
   ISE 370. Manufacturing Processes
   ISE 480. Introduction to Senior Design
   ISE 482L. Industrial Engineering Capstone Lab
   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

4. ISE Concentration Areas ..............................................................................15 hours
   In addition to the courses listed in item 5 above, the student must take 15 hours of
   400-level ISE prefixed courses, with no more than 3 of these hours coming from ISE
   498 or ISE 499.

5. Professional Electives .....................................................................................6 hours
   Industrial specialization students must take two additional professional electives, at
   least one of which must be at the 300-level or above. The student should carefully
   plan this elective in consultation with his or her advisor. Typically, courses such as
   Entrepreneurship (EGR 482), courses from the Department of Psychology, the
   Department of Computer Science, the Stetson School of Business and Economics,
   or the School of Engineering are acceptable professional electives. The student's
   faculty advisor will provide specific guidance in the selection of a professional elec-
   tive.
**Industrial Specialization**

### Freshman Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
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<tbody>
<tr>
<td>TCO 141 Intro to Prof Comm</td>
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<td><strong>Or</strong></td>
<td><strong>Or</strong></td>
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<td>EGR 126 Programming for Engr</td>
<td>EGR 126 Programming for Engr</td>
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<td>MAT 191 Calculus I</td>
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<td>CHM 111 General Chemistry I</td>
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### Sophomore Year

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<tr>
<td>EGR 232 Statics/Solid Mech</td>
<td>EGR 236 Dynamics</td>
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<td>EGR 244 Electrical Fund I</td>
<td>EGR 235 Thermodynamics</td>
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<td>MAE 205 Visualization and Graphics</td>
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<td>MAT 330 Intro to Diff Eqns</td>
<td>EGR 246L Electrical Fund Lab</td>
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<td>LABORATORY SCIENCE</td>
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### Junior Year

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<tbody>
<tr>
<td>ISE 302 Mgt Sci/Op Res</td>
<td>EGR 386 Feedback Control</td>
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<tr>
<td>ISE 327 Stat Process &amp; Qual Ctrl</td>
<td>ISE 311 Ergonomic/Work Mst</td>
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<tr>
<td>ISE 352 Design of Experiments</td>
<td>ISE 362 Prod Planning and Ctrl</td>
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<td>MAE 305 Manuf Practices Lab</td>
<td>ISE 370 Mfg. Processes</td>
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<td>TCO 341 Technical Communic</td>
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### Senior Year

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<td>ISE 482L ISE Capstone Lab</td>
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<tr>
<td>ISE 487 Engr Design Exhibit I</td>
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**Integrated Bachelor of Science in Engineering / 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 Master of Science in Engineering in Engineering Management degree 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 catalog.

5 Year BSE/MSE Program

4th Year

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<tr>
<th>Fall Semester</th>
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Summer Semester

ETM 6XX Graduate Course 3 0 3

5th Year

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Summer Semester

ETM 6xx Graduate Course 3 0 3

ISE Courses

ISE 288. Introduction to Industrial Engineering and Manufacturing Engineering (0-3-1)

Prerequisite: sophomore standing.

An overview of the concepts important to industrial engineering and manufacturing engineering. Topics include operations research, facility design, quality control, information systems, economic analysis, management concepts, human factors, and engineering ethics.
ISE 302. Management Science/Operations Research (3-0-3)
Prerequisites: C or better in EGR 252 or permission of instructor, 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.

ISE 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.

ISE 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.

ISE 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.

ISE 362. Production Planning and Control (3-0-3)
Prerequisite: ISE 302.
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.

ISE 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.

ISE 403. Modeling and Simulation (3-0-3)
Prerequisites: C or better in EGR 252.
Applications of and theory behind queuing models and the application of discrete event simulation to model service and manufacturing systems.

ISE 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.
ISE 425. Computer Assisted Manufacturing Systems & Lab (3-3-4)
Prerequisite: ISE 370.
Introduction to computer assisted manufacturing product specification; geometric tolerancing; computer-aided design; geometric modeling; process engineering; tooling and fixing; programmable logic controllers; data communication and LANs in manufacturing; fundamentals of numerical control; numerical control programming; rapid prototyping; and industrial robotics. Laboratory work: CAE and CAD/CAM integration; CNC machining operations; numerically controlled devices, and robots. Measurements using coordinate measuring machine (CMM). Use of G-codes and CAD/CAM/CMM software packages. Projects illustrating CAD/CAM/CMM and robots.

ISE 427. Reliability and Quality Assurance (3-0-3)
Prerequisite: ISE 327.
Design and management of reliability programs and quality assurance systems; mathematics of reliability.

ISE 428. Quality Engineering (3-0-3)
Prerequisite: IDM 355 or ISE 327.

ISE 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.

ISE 443. Project Management (3-0-3)
Prerequisite: EGR 312 or FIN 362 or permission of instructor.
Tools and techniques for managing engineering projects. Includes both the technical aspects (work breakdown structures, cost estimating, CPM/PERT, scheduling, etc.) and the human aspects (organizational culture, management structures, leadership, etc.) Integrated case studies and team exercises.

ISE 460. Facilities Planning and Design (3-0-3)
Prerequisite: ISE 370.
Comprehensive design of industrial production systems. Determination of requirements, generation and evaluation of alternatives, process design, materials handling, and location analysis.

ISE 468. Healthcare Process Improvement (3-0-3)
Prerequisite: EGR 252 or consent of the instructor.
Tools and techniques for improving the delivery of healthcare. Lean and Six Sigma process improvement methodologies. Application of both parametric and non-parametric statistical analysis.

ISE 480. Introduction to Senior Design (0-1-0)
Prerequisites or Corequisites: TCO 341, ISE 302, ISE 311, ISE 327, and ISE 370.
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.

**ISE 482L. Industrial Engineering Capstone Laboratory (0-3-1)**
Prerequisites: TCO 341, ISE 302, ISE 311, ISE 327, ISE 352 and ISE 370.
Laboratory work involving the use of the tools and techniques of Industrial Engineering. Design of experiments, measurement and data collection, statistical analysis, and reporting. Emphasis on team solutions and communications.

**ISE 487. Engineering Design Exhibit I (0-6-2)**
Prerequisites: TCO 341, ISE 302, ISE 311, ISE 327, ISE 370, and ISE 480. Must have completed all required 100- and 200-level engineering, mathematics, and science courses. 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.

**ISE 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 Chair of the Industrial Engineering and Industrial Management Department.

**ISE 491-492-493. Special Topics (1-6 hours)**
**ISE 498. Professional Seminar (1-6 hours)**
**ISE 499. Independent Study (1-6 hours)**

**Mechanical Specialization**
Mechanical engineering 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 Specialization

The student choosing the mechanical specialization 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 235 (Thermodynamics) and EGR 236 (Dynamics). 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 specialization students must complete all required 200-level and 300-level MAE courses (except MAE 302) and all required 100 and 200 level engineering, mathematics, and science courses before enrolling in Senior Design (MAE 487).

Departmental Honors for BSE, Mechanical Specialization

Each year, the engineering faculty in the mechanical specialization determines the graduating mechanical specialization student who has best distinguished himself or herself and recognizes this student as the Outstanding Engineering Graduate in the Mechanical Specialization.

The BSE Curriculum, Mechanical Specialization

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. Successful completion of this curriculum prepares the student for a career in one of the many phases of practice as a mechanical engineer, or for advanced education in graduate school.

Bachelor of Science in Engineering (BSE) Degree Requirements:
Mechanical Specialization

1. BSE General Education .............................................................. 32 hours
2. Engineering Core ................................................................. 45 hours
3. Additional Mathematics and Laboratory Science. ................. 3 hours
   MAT 293. Multivariable Calculus
4. Required MAE Courses ............................................................ 37 hours
   MAE 205. Visualization and Graphics
   MAE 302. Experimental Methods for Mechanical Engineers
   MAE 305L. Manufacturing Practices
   MAE 310. Engineering Analysis for Mechanical Engineers
   MAE 320. Solid Mechanics
   MAE 322. Machine Design
   MAE 330. Fluid Mechanics
   MAE 362. Structure and Properties of Materials
   MAE 402L. Mechanical Engineering Laboratory II
   MAE 430. Heat Transfer
   MAE 435. Thermal Systems Analysis
   MAE 460. Engineering Materials
   MAE 480. Introduction to Senior Design
   MAE 487. Engineering Design Exhibit I
   MAE 488. Engineering Design Exhibit II

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5. Technical Electives ............................................. 12 hours

This specialization requires twelve hours of technical elective courses, chosen by the student with the approval of the student's faculty advisor. The student must take at least nine hours in MAE technical electives. The remaining three 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 Specialization**

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<th>Freshman Year</th>
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<td>TCO 141 Intro to Prof Comm</td>
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<td>EGR 126 Programming for Engr</td>
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<td>MAT 191 Calculus I</td>
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<td>CHM 111 General Chemistry I</td>
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<td><strong>Fall Semester</strong></td>
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<tr>
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<td>EGR 386 Feedback Control</td>
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<td>MAE 305L Manuf Practices Lab</td>
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<td>MAE 310 Engr Analysis for ME</td>
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<td>MAE 320 Solid Mechanics II</td>
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<td>MAE 330 Fluid Mechanics</td>
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366 / MERCER UNIVERSITY
### Senior Year

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<td>MAE 435 Thermal Sys Analysis</td>
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<td>MAE 460 Engineering Materials</td>
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<td>MAE 487 Engr Design Exhibit II</td>
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<tr>
<td>MAE 4XX Technical Elective</td>
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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 of Science in Engineering with a Mechanical Specialization with grades which qualify them for graduate study may directly pursue the Master of Science in Engineering 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 in Mechanical Engineering degree. 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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#### Summer Semester (Integrated BSE/MSE students only)

| MAE 6XX Graduate Course | 3 0 3 |
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#### Graduate Year (Integrated BSE/MSE students only)

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#### Summer Semester (Integrated BSE/MSE students only)

| MAE 6XX Graduate Course | 3 0 3 |
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See the graduate section of this catalog for more information about the Integrated Bachelor of Science in Engineering/Master of Science in Engineering Program.

SCHOOL OF ENGINEERING / 367
MAE Courses

MAE 205. Visualization, Graphics, and Solid Modeling (0-6-2)
Prepare hand sketches and engineering drawings using some drafting tools. Visualize 3D objects from 2D drawings and vice versa. Use commercial quality CAD software to draw 2D figures and drawings including orthographic projections, and working and assembly drawings. Use a commercial quality solid modeler to create solid models, and appropriate working and assembly drawings.

MAE 302. Experimental Methods for Mechanical Engineers (3-3-4)
Prerequisites: EGR 252, MAE 320, C or better in EGR 235.
Corequisite: MAE 430

MAE 305L. Manufacturing Practices (0-6-2)
Prerequisites: PHY 141 (IDM majors) or EGR 232 (MAE specialization: C or better), MAE 205.
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.

MAE 310. Engineering Analysis for Mechanical Engineers (3-0-3)
Prerequisites: EGR 126, MAT 293, MAT 330.
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.

MAE 320. Solid Mechanics II (3-0-3)
Prerequisites: MAT 192, C or better in EGR 232.
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.

MAE 322. Machine Design (3-0-3)
Prerequisites: MAE 320, C or better in EGR 232 and EGR 236.
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. Engineering design ethics.

MAE 330. Fluid Mechanics (3-0-3)
Prerequisites: MAT 293, MAT 330, C or better in EGR 235 and EGR 236.
MAE 335. Thermodynamics II (3-0-3)
Prerequisite: 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.

MAE 362. Structure and Properties of Materials (3-0-3)
Prerequisites: CHM 111, MAT 330.
Mechanical behavior of materials, atomic concepts, properties of crystalline and non crystalline solids. Materials in design.

MAE 402L. Mechanical Engineering Laboratory II (0-3-1)
Prerequisites: MAE 330, MAE 302, MAE 430.
Corequisite: MAE 460.
Design of experiments. Multiple experimental projects focused on analysis of materials and materials processing, thermal systems, and/or mechanical systems.

MAE 406. Introduction to Finite Element Analysis (3-0-3)
Prerequisites: MAE 310, MAE 320.

MAE 422. Intermediate Dynamics (3-0-3)
Prerequisites: MAE 310, C or better in EGR 236.
Three dimensional kinematics of rigid bodies. Three dimensional kinetics of rigid bodies: force and acceleration. Vibrations. Design of systems to produce different types of motion.

MAE 425. Vibrations (3-0-3)
Prerequisites: MAT 330, C or better in EGR 236.
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.

MAE 427. Solid Mechanics III (3-0-3)
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.

MAE 430. Heat Transfer (3-0-3)
Prerequisites: MAE 310, MAE 330, MAT 330, C or better in EGR 235.

MAE 435. Thermal Systems Analysis (3-0-3)
Prerequisites: MAE 330 and MAE 430.
Introduction to heat exchangers and heat exchanger design. Design and optimization of thermal systems, including modeling, simulation, and ethical considerations. Component design. Examples from power generation systems, heat exchanger/ recovery, HVAC.
MAE 436. Turbomachinery (3-0-3)
Prerequisite: MAE 330.

MAE 437. Internal Combustion Engines (3-0-3)
Prerequisite: C or better in EGR 235.

MAE 439. Heating, Ventilation, and Air Conditioning Design (3-0-3)
Prerequisite: MAE 430.

MAE 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.

MAE 460. Engineering Materials (3-0-3)
Prerequisite: MAE 362.
Corequisite: MAE 402L.
Engineering application of materials. Material, shape, and process selection for mechanical designs based on function, constraints, objectives, and free variables. Materials and the environment.

MAE 480. Introduction to Senior Design (0-1-0)
Corequisites: TCO 341, MAE 305L, MAE 310, MAE 322, MAE 330, 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.

MAE 487. Engineering Design Exhibit I (0-6-2)
Prerequisites: TCO 341, MAE 305L, MAE 310, MAE 322, MAE 330, MAE 362, and MAE 480. Must have completed all 100- and 200-level engineering, mathematics, and science courses.
Corequisites: MAE 302, 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.

MAE 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 the Chair of the Mechanical Engineering Department.

MAE 491-492-493. Special Topics (1-6 hours)
MAE 498. Professional Seminar (1-6 hours)
MAE 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 one of two Bachelor of Science degree programs in the School of Engineering. Graduates of these programs are prepared to pursue engineering related careers or to pursue advanced degrees that require a strong foundation in the sciences. These programs are not accredited as engineering degrees and graduates are not qualified to become licensed as professional engineers.

The following majors are available: Industrial Management and Technical Communication. Curricula and requirements for each of these majors are presented later in this document.

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 Bachelor of Science (BS) in Industrial Management degree 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 demonstrate a strong technical aptitude and who possess a high degree of interest in developing business and people skills. These students also prefer more emphasis on quantitative approaches than is generally found in a business program. Graduates of this program often pursue advanced degrees, primarily obtaining MBAs.

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 and the School of Engineering, the industrial management student must achieve a grade of C or better in ECN 150, ECN 151, EGR 252, PSY 101, PSY 235, and a grade point average in excess of 2.0 for all IDM and ISE courses.

Departmental Honors for BS, Industrial Management Major

Each year, the industrial management faculty determines the graduating industrial management student who has best distinguished himself or herself and recognizes this student as the Outstanding Graduate in Industrial Management.
The Industrial Management BS Curriculum

The program educational objectives that have been established for the Bachelor of Science in Industrial Management are as follows. Graduates are prepared to be practicing managers with the knowledge and skills needed to: (1) Identify, formulate, and solve management problems through analysis and design using the principles of science and mathematics and the modern tools of management. Graduates will demonstrate attainment of this objective within the first five years following graduation by their proficiency in use of modern management tools, their production of high quality processes, and their sound management judgment. (2) Work effectively in a variety of contexts using superior communication skills, knowledge of contemporary issues with a commitment to professional ethics and lifelong learning. Graduates will demonstrate attainment of this objective within the first five years following graduation by their significant contributions to the success of their work teams, by their effective written and oral communications, by their demonstrated sensitivity to the ethical dimensions of professional practice, and by their successful use of opportunities to master new technologies. (3) Pursue additional graduate or professional education. Graduates will demonstrate attainment of this objective within the first five years following graduation by their successful use of opportunities for certification and professional development; and by their engagement in, or successful completion of, graduate education. (4) Participate in their local and global communities through sustaining service and leadership. Graduates will demonstrate attainment of this objective within the first five years following graduation by their service and/or leadership roles in community organizations, and by their participation in professional societies to promote professional practice.

The student outcomes that have been established for the Bachelor of Science in Industrial Management are as follows. Student by the time of graduation will know and be able to do the following: (a) Apply quantitative techniques to the solution of management problems. (b) Apply non-quantitative (e.g. training programs, customer surveys, etc…) techniques to the solution of management problems. (c) Apply principle of human behavior. (d) Design and analyze manufacturing, management, and quality systems. (e) Function on multi interdisciplinary teams. (f) Communicate effectively. (g) Understand the impact of solutions in a global, economic, environmental, and societal context. (h) Demonstrate an understanding of professional and ethical responsibility. (i) Recognize the need for, and an ability to engage in life-long learning.

Bachelor of Science (BS) Degree Requirements

Industrial Management Major

1. UNV 101 .............................................................................................................1 hour

2. BSIDM General Education Requirement .......................................................30 hours

   (1) Communication and Writing (minimum of 3 hours)
   TCO 141 (written and oral communication)

   (2) Religion (minimum of 3 hours)
   at least one course selected from: CHR 101, CHR 150, CHR 170; ENG 225; 
   HIS 160; PHI 240; GBK 203

   (3) Humanities/Fine Arts (minimum of 3 hours)
   at least one course selected from: ART 106, ART 107, ART 115, ART 116, 
   ART 223, ART 224, ART 225, ART 226, ART 254; CLA 101, CLA 102; CHR 
   210, CHR 270; ENG 224, ENG 226, ENG 263; ENG 264, ENG 233; ENG 234;
ENG 235; ENG 237; HIS 110, HIS 145, HIS 165; JMS 220; JMS 225; MUS 151; PHI 190; PHI 230, PHI 260, PHI 265, PHI 269; PHO 230; THR 115, THR 218; WLT 101; GBK 202, GBK 305

(4) Behavioral/Social Science .................................................................(minimum of 9 hours)
ECN 150, ECN 151, PSY 101
additional courses beyond the required minimum may be selected from:
AFR 190; AFR 210; ANT 101; COM 230; COM 250; ENV 250; GEO 111; JMS 101; PHI 237; POL 101; POL/JAF 253; SEP 200; SOC 101; WGS 180; GBK 306

(5) Quantitative Reasoning (minimum of 4 hours)
MAT 191

(6) Scientific Reasoning (minimum of 8 hours)
CHM 111 and either PHY 141 or PHY 161,

3. Math and Science Foundation ..............................................................11 hours
MAT 191. Calculus I (included in general education)
CHM 111. General Chemistry I (included in general education)
PHY 141. Introductory Physics I (included in general education)
EGR 252. Probability and Statistics for Engineers
8 hours of MAT and laboratory science courses (BIO, CHM, ENB, or PHY). The student should work with his/her advisor to determine the appropriate mix of course work to meet the student's goals. Mathematics courses should be at a level of MAT 133 or above. Credit will not be allowed for both PHY 141 and PHY 161.

4. Humanities/Social Science/Communications Electives .................... 9 hours
at least two courses selected from areas prefixed by: AFR, ANT, ART, CHR, CLA, COM, ECN, ENG, ENV, GEO, GHS, HIS, JMS, MUS, PHI, PHO, POL, PSY, SEP, SOC, THR, WLT, WGS, GBK, TCO, or courses in modern languages (CHN, FRE, GER, LAT, or SPN)

5. Psychology ...............................................................3 hours
PSY 101. Introduction to Psychology (included in general education)
PSY 235. Industrial Psychology

6. Management Foundation .................................................................24 hours
BUS 346. The Legal, Ethical, and Regulatory Environment of Business I
FIN 362. Principles of Finance
IDM 355. Quality Management
IDM 404. Industrial Management Case Studies
ISE 302. Management Science I/Operations Research
MGT 363. Principles of Management
MGT 423. Organizational Behavior
MKT 361. Principles of Marketing

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7. Accounting Foundation ..................................................................................6 hours
   ACC 204. Introduction to Financial Accounting
   ACC 205. Introduction to Managerial Accounting

8. Economics Foundation ...................................................................................6 hours
   ECN 150. Microeconomics (included in general education)
   ECN 151. Macroeconomics (included in general education)

9. Computers, Communications, and Engineering ..........................................21 hours
   EGR 107. Introduction to Engineering Design
   EGR 126. Programming for Engineers
   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
   ISE 370. Manufacturing Processes
   MAE 205. Visualization and Graphics
   MAE 305L. Manufacturing Practices
   TCO 341. Technical Communication

10. Concentration Areas ....................................................................................18 hours
    The student must take a minimum of six hours from each of the concentration areas listed below. Additional courses should be selected based on the student's interests and career plans. The student should work closely with his/her advisor to select these courses to complete the 18 hour minimum requirement.

    Advanced Management, Accounting, and Economics Concentration
    ACC 3XX/4XX
    BUS 347. Legal, Ethical, and Regulatory Environment of Business II
    BUS 477. Special Topics in Business
    BUS 491. Seminar in Business and Economics
    ECN 3XX/4XX
    FIN 3XX/4XX
    MGT 3XX/4XX (NOTE: Students cannot take both MGT 387 and ISE 362 for credit)
    MKT 3XX/4XX

    Advanced Computers, Communications, and Engineering Concentration
    EGR 482. Engineering Innovation and Creativity
    IDM 470/BUS 349. Management Information Systems
    ISE 4XX.
    ISE 311. Ergonomics and Work Measurement
    ISE 362. Production Planning and Control (NOTE: Students cannot take both MGT
ISE 403. Modeling and Simulation
ISE 412. Human Factors Engineering
ISE 427. Reliability and Quality Assurance
ISE 428. Quality Engineering
ISE 429. Robotics
ISE 443. Project Management
ISE 460. Facilities Planning and Design
ISE 468. Healthcare Process Improvement
TCO 3XX/4XX.

11. Free Electives ....................................................................................... up to 6 hours
Students will select additional electives from any of the offerings from the entire University as needed to complete the 129 hours required for graduation.

Total Semester Hours Required .............................................................. 129 hours

Sample 4-year Curriculum
The Bachelor of Science in Industrial Management degree may be completed in four years. This sample curriculum shows one possible configuration of courses, but the actual configuration of courses will vary according to each student's circumstances.

Industrial Management

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
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<tr>
<td>TCO 141</td>
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<td>Intro to Prof Comm</td>
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<td>EGR 126</td>
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<td>Programming for Engr</td>
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<td>ECN 150</td>
<td>EGR 107</td>
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<td>Microeconomics</td>
<td>Intro to Engr Design</td>
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<td>MAE 205</td>
<td>EGR 126</td>
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<td>Visual and Graphics</td>
<td>Intro to Engr Design</td>
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<td>MAT 191</td>
<td>PHY 141</td>
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<tr>
<td>Calculus I</td>
<td>Intro Physics I</td>
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<td>PSY 101</td>
<td>PHY 121L</td>
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<td>Intro Physics I Lab</td>
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<td>Freshman Experience</td>
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<td>Gen Ed Grp 2/3</td>
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<td><strong>Sophomore Year</strong></td>
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<td>ACC 204</td>
<td>ACC 205</td>
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<td>Intro to Financial Acct</td>
<td>Intro to Managerial Acct</td>
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<td>CHM 111</td>
<td>IDM 288</td>
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<tr>
<td>General Chemistry I</td>
<td>Intro to IDM and Mfg</td>
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<td>ECN 151</td>
<td>MAE 305L</td>
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<td>Macroeconomics</td>
<td>Mfg. Practice Lab</td>
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<td>EGR 252</td>
<td>MGT 363</td>
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<td>Prin of Management</td>
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<td>Gen Ed Grp 2/3</td>
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<td>PSY 235</td>
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<td>Industrial Psychology</td>
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### Integrated Bachelor of Science/Master of Science in Technical Management

The purpose of the Master of Science in Technical management degree is to prepare people to successfully address supervisory and managerial needs in a technological environment. The industrial 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 administration with the technical expertise developed in 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.

Students who complete the coursework required in the first three years of the bachelor's degree in a technical program with grades which qualify them for graduate study may apply for admission to the Master of Science 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 catalog.
## 5 Year BS/MS Program

### 4th Year

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<tr>
<th>Fall Semester</th>
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<tr>
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<td>ETM 6xx ETM Graduate Course</td>
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<td>EGR XXX Graduate Course</td>
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<th>Summer Semester</th>
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<td>ETM 6XX Graduate Course</td>
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<th>5th Year</th>
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<tr>
<td>Fall Semester</td>
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<tr>
<td>XXX Hum/SS/Comm Elec.</td>
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<tr>
<td>IDM 487 Engr Design Exhibit I</td>
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<td>XXX Free Elective</td>
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<td>ETM 6XX Graduate Course</td>
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<td>EGR XXX Graduate Course</td>
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<th>Summer Semester</th>
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<tr>
<td>ETM 6XX Graduate Course</td>
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### IDM Courses

**IDM 288. Introduction to Industrial Management and Manufacturing**

Prerequisite: sophomore standing.

An overview of the concepts important to industrial management and manufacturing. Topics include operations research, facility design, manufacturing, quality control, information systems, economic analysis, management concepts, and human factors.

**IDM 302. Industrial Management I**

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.

**IDM 355. Quality Management**

Prerequisite: C or better in EGR 252 or C or better in STA 126.

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.
IDM 404. Industrial Management Case Studies (3-0-3)
Prerequisites: IDM 355, ISE 302, and ISE 370.
Systematic problem solving utilizing actual and theoretical cases involving all areas of management and production. Detailed oral and written presentations.

IDM 407. Plant Development (3-0-3)
Prerequisite: IDM 302.
Plant design and layout procedures; materials handling analysis, equipment arrangements and line-balancing requirements.

IDM 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.

IDM 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.

IDM 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.

IDM 470. Management Information Systems I (3-0-3)
Prerequisite: EGR 126 or IST 220; or CSC 125, ACC 205, MKT 361, and MGT 363. 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.

IDM 480. Introduction to Senior Design (0-1-0)
Prerequisites/Corequisites: TCO 341, IDM 355, ISE 302, and ISE 370. 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.

IDM 487. Senior Design Exhibit I (0-6-2)
Prerequisites: TCO 341, IDM 355, IDM 480, ISE 302, and ISE 370. Must have completed all 100- and 200-level engineering, mathematics, and science courses. Project design of a manufacturing facility encompassing market analysis, budget development, plant requirements and layout, production equipment, and work-force analysis. Oral and written presentations.

IDM 488. Senior Design Exhibit 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 work-force 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 and the Chair of the Industrial Engineering and Industrial Management Department.

**IDM 491-492-493. Special Topics** (1-4 hours)
**IDM 498. Professional Seminar** (1-4 hours)
**IDM 499. Independent Study** (1-4 hours)

**Technical Communication**

Technical communication is a unique professional field of study that is gaining prominence as society becomes 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 Bachelor of Science (BS) in Technical Communication degree draws upon the resources of several disciplines to provide a foundation in sciences, mathematics and technology, together with strong emphasis on communication skills, which enables students to enter a wide variety of career fields. The technical communication degree 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 and management, advertising and marketing for technical fields, training, web design, instructional design, multimedia 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 and other fields are available for advanced study, including Mercer's Master of Science in Technical Communication Management, offered via distance learning.

Students are required to complete at least one internship for practical experience. 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 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, Technical Communication Major**

Each year, the technical communication faculty determines the graduating technical communication student who has best distinguished himself or herself academically and whose undergraduate career best exemplifies the standards of the profession, and recognizes this student as the Outstanding Graduate in Technical Communication.
TCO Scholarships

The Jeffrey Mavro TCO Scholarship provides financial awards for selected undergraduates majoring in Technical Communication. Consult University Admissions or the Technical Communication Department Chair for more information.

The David C. Leonard Scholarship provides funds for selected graduate students in the Master of Science Program. Consult the Department Chair for information, or see www.mercer.edu/mstco.

The Technical Communication BS Curriculum

The program educational objectives that have been established for the Bachelor of Science in Technical Communication are as follows. Graduates are prepared to be professionals with the knowledge and skills needed to: (1) Identify, analyze, and solve technical communication problems using the principles and modern tools of technical communication. Graduates will demonstrate attainment of this objective within the first five years following graduation by their proficiency in the use of modern communication tools and processes and their production of high quality communication products. (2) Work effectively in a variety of contexts using superior communication skills, knowledge of contemporary issues and a commitment to professional ethics. Graduates will demonstrate attainment of this objective within the first five years following graduation by their effective written and oral communications, by their demonstrated sensitivity to the ethical dimensions of professional practice, and by their successful use of opportunities to master new processes and tools. (3) Manage projects and participate effectively on interdisciplinary teams. Graduates will demonstrate attainment of this objective within the first five years following graduation by their significant contributions to the success of their project teams. (4) Pursue additional graduate or professional education and lifelong learning. Graduates will demonstrate attainment of this objective within the first five years following graduation by their successful use of opportunities for certification and professional development, and by their engagement in, or successful completion of, graduate education. (5) Participate in local and global communities through sustaining service and leadership. Graduates will demonstrate attainment of this objective within the first five years following graduation by their service and/or leadership roles in community organizations, and by their participation in professional societies to promote professional practice.

The student outcomes that have been established for the Bachelor of Science in Technical Communication are as follows. Students by the time of graduation will know and be able to do the following: (1) Apply appropriate breadth and depth of skills in audience analysis, rhetorical purpose, and information design to identify technical communication problems. (2) Apply appropriate breadth and depth of core competencies (technical writing/editing, multimedia, usability, and instructional design) to analyze and solve technical communication problems. (3) Communicate effectively to both specialized and public audiences in a variety of modes, using appropriate media. (4) Incorporate an understanding of global contemporary issues and professional ethics in the practice of technical communication. (5) Demonstrate the ability to lead and manage projects and participate in interdisciplinary teams. (6) Relate the practice of technical communication to the need for lifelong learning. (7) Demonstrate community service and leadership (campus, civic, professional, or religious organizations).
Bachelor of Science (BS) Degree Requirements
Technical Communication Major

1. UNV 101............................................................................................................1 hour

2. Required Engineering Courses........................................................................6 hours
   EGR 107. Introduction to Engineering Design
   EGR 126. Programming for Engineers [or CSC 204]

3. Required TCO Courses .................................................................................18 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 Internship
   TCO 490. Technical Communication Internship

4. TCO Electives ...............................................................................................24 hours
   TCO 325. Multimedia
   TCO 345. Communication in Management
   TCO 376. Visual Communication
   TCO 425. Applied Multimedia
   TCO 451. International Technical Communication
   TCO 476. Communication in High-Tech Environments
   TCO 491. Special Topics: (subtitle)
   TCO 492. Special Topics: (subtitle)
   TCO 493. Special Topics: (subtitle)
   TCO 499. Independent Study
   Additional electives may be selected from outside TCO with approval of the student's TCO advisor.

5. General Education Requirements ............................................minimum of 30 hours
   (1) Communication and Writing (minimum of 3 hours)
      TCO 141 (written and oral communication)
   (2) Religion (minimum of 3 hours)
      at least one course selected from: CHR 101, CHR 150, CHR 170; ENG 225; HIS 160; PHI 240; GBK 203
   (3) Humanities/Fine Arts (minimum of 3 hours)
      at least one course selected from: ART 106, ART 107, ART 115, ART 116, ART 223, ART 224, ART 225, ART 226, ART 254; CLA 101, CLA 102; CHR 210, CHR 270; ENG 224, ENG 226, ENG 263, ENG 264, ENG 233, ENG 234, ENG 235, ENG 237; HIS 110, HIS 145, HIS 165; JMS 220; JMS 225; MUS 151; PHI
190; PHI 230, PHI 260, PHI 265, PHI 269; PHO 190, PHO 230; THR 115, THR 218; WLT 101; GBK 202, GBK 305

(4) Behavioral/Social Science (minimum of 3 hours)
   at least one course selected from: AFR 190, AFR 210; ANT 101; COM 230, COM 250; ECN 150, ECN 151; ENV 250; GEO 111; JMS 101; PHI 237; POL 101; POL/IAF 253; PSY 101; SEP 200; SOC 101; WGS 180; GBK 407

(5) Quantitative Reasoning (minimum of 7 hours)
   MAT 133, STA 126

(6) Scientific Reasoning (minimum of 8 hours)
   at least two courses selected from: BIO 110, BIO 202; CHM 111, CHM 112; ENB 105, ENB 110, ENB 150; PHY 115, PHY 141, PHY 142

   One additional course selected from groups 2, 3, 4, or 6 (minimum of 3 hours)

6. Professional Tracks .......................................................................................15 hours

   Students must select one of the Professional Tracks outlined below. These courses are designed to develop strength in a corollary discipline compatible with the student’s career plans. In some departments, this track may be called a minor and be so listed on the transcript.

   (1) Business

   This track allows students to earn a minor in business administration, accounting or economics. By enrolling in this track, technical communication majors gain expertise in business to better understand how companies operate, how business decisions are made, and how products and services are marketed. Students wishing to pursue an MBA after graduation must take an additional six hours in business courses beyond those required for a minor in business administration. See the Stetson School of Business and Economics section of this catalog for requirements.

   (2) Pre-Health

   Health professional rely increasingly on digital media to communicate with their patients, their colleagues, and the public. The pre-health track allows students to combine their technical communication skills with the mathematics and science courses required for entry into medical, dental, pharmacy, physical therapy, and veterinary schools. See the Pre-Health Professions section of this catalog for these requirements.

   (3) Ministry Media and Technology

   This track prepares students for work in churches or para-church organizations to develop and manage web design, social media, information systems, and worship and audio-visual technology. Students who complete the required Christianity courses in this track may be eligible for admission to the Mercer McAfee School of Theology Master of Divinity and other master’s degrees.

   (4) Art (including Photography)

   Familiarity with the principles of graphic design and photography is an advantage for technical communicators who create both print and digital media. See
the College of Liberal Arts section of this catalog for descriptions of minors in art and photography.

(5) Journalism and Media Studies
Digital media, video, public relations, journalism, and media law and ethics are relevant courses for technical communicators. See the description of minors in JMS in the College of Liberal Arts section of this catalog.

(6) 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 catalog for descriptions of minors in CSC and IST.

(7) 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. See the College of Liberal Arts section of this catalog for minors in a foreign language.

(8) 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 TCO advisor and get approval from the Technical Communication Chair.

7. Free Electives ................................................................................................Variable
Students will take free electives as needed to gain the 120 hours required for graduation. These electives are entirely open for student choice.

Total Semester Hours Required ........................................................................120 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.

Minors
Minors for students not pursuing the B.S. degree in technical communication are offered in technical communication and web design. A 2.0 grade average in TCO and other courses required for the minor is required to earn a minor. Students wishing to pursue either minor should consult with the chair of their academic unit, then formally declare the minor.

The requirements for a minor in technical communication consist of 15 hours of course work in technical communication, including TCO 285, TCO 341, and at least two other TCO courses above 300.

The requirements for a minor in web design consist of a minimum of 15 hours, including TCO 285, TCO 325, TCO 425, IST 276, and IST 351.
Sample 4-Year Curriculum

The Bachelor of Science in Technical Communication degree 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

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
<td></td>
</tr>
<tr>
<td>UNV 101 Freshman Experience</td>
<td>1 0 1</td>
</tr>
<tr>
<td>TCO 141 Intro to Prof Comm</td>
<td>3 0 3</td>
</tr>
<tr>
<td>MAT 133 Precalculus</td>
<td>4 0 4</td>
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<tr>
<td>XXX 1XX Science course w/Lab</td>
<td>3 3 4</td>
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<tr>
<td>XXX Gen Ed Grp 2</td>
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<tr>
<td><strong>Total</strong></td>
<td>14 3 15</td>
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<tr>
<td><strong>Sophomore Year</strong></td>
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<tr>
<td>TCO XXX TCO Elective I</td>
<td>3 0 3</td>
</tr>
<tr>
<td>STA 126 Elem. Statis. Methods</td>
<td>3 0 3</td>
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<tr>
<td>XXX Elective</td>
<td>3 0 3</td>
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<tr>
<td>XXX Gen Ed Grp 4</td>
<td>3 0 3</td>
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<tr>
<td>XXX Elective</td>
<td>3 0 3</td>
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<tr>
<td><strong>Total</strong></td>
<td>15 3 15</td>
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<tr>
<td><strong>Junior Year</strong></td>
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<tr>
<td>TCO XXX TCO Elective IV</td>
<td>3 0 3</td>
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<tr>
<td>TCO XXX TCO Elective V</td>
<td>3 0 3</td>
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<tr>
<td>XXX Elective</td>
<td>3 0 3</td>
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<tr>
<td>XXX Prof. Track Elective II</td>
<td>3 0 3</td>
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<tr>
<td>XXX Elective</td>
<td>3 0 3</td>
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<tr>
<td>TCO 480 Intro to Internship</td>
<td>0 1 0</td>
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<tr>
<td><strong>Total</strong></td>
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<tr>
<td><strong>Senior Year</strong></td>
<td></td>
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<tr>
<td>TCO 363 Instructional Design</td>
<td>3 0 3</td>
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<tr>
<td>TCO XXX TCO Elective VII</td>
<td>3 0 3</td>
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<tr>
<td>TCO XXX TCO Elective VIII</td>
<td>3 0 3</td>
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<tr>
<td>XXX Prof. Track Elective IV</td>
<td>3 0 3</td>
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<tr>
<td>XXX Elective</td>
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<td><strong>Total</strong></td>
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*Number of Free Electives will vary; must reach total hours of 120
Integrated BS in Technical Communication/MBA Program

The curriculum outlined below combines the BS degree in Technical Communication offered in the School of Engineering with the Macon-based evening MBA program offered by the Stetson School of Business and Economics (SSBE). Students seeking admission to the MBA program must meet the following requirements: (1) complete all undergraduate Business courses specified in the first three years of the curriculum by the end of their junior year; (2) score a minimum of 450 on the GMAT in the spring semester of their junior year or the following summer; and (3) have an earned GPA of 3.0 overall at the end of their junior year. Students who wish to be admitted to this program must also complete TCO 490 during the summer after the junior year.

### Freshman Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
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<tr>
<td>UNV 101 Freshman Experience</td>
<td>EGR 107 Intro to Engr Design</td>
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<tr>
<td>TCO 141 Intro to Prof. Comm</td>
<td>EGR 126 Programming for Engr</td>
</tr>
<tr>
<td>MAT 133 Precalculus</td>
<td>TCO 285 Docu. &amp; Web Design</td>
</tr>
<tr>
<td>XXX 1xx Science Course w/Lab</td>
<td>XXX 1xx Science Course w/Lab</td>
</tr>
<tr>
<td>XXX Gen Ed Grp 2</td>
<td>ECN 150 Prin of Microeconomics</td>
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<td>(Prof. Track Elective)</td>
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### Sophomore Year

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<th>Fall Semester</th>
<th>Spring Semester</th>
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<tr>
<td>TCO XXX TCO Elective I</td>
<td>XXX Elective</td>
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<tr>
<td>STA 126 Elem Stat Methods</td>
<td>TCO 341 Tech Comm</td>
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<tr>
<td>XXX Elective</td>
<td>TCO XXX TCO Elective II</td>
</tr>
<tr>
<td>FIN 362 Prin of Finance</td>
<td>MGT 363 Prin of Management</td>
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<tr>
<td>(Prof. Track Elective)</td>
<td>(TCO Elective III)</td>
</tr>
<tr>
<td>ACC 204 Intro Financial Acct</td>
<td>MKT 361 Prin of Marketing</td>
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<tr>
<td>(Prof. Track Elective)</td>
<td>(TCO Elective IV)</td>
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### Junior Year

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<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>TCO 345 Comm in Mgmt (Prof. Track Elective)</td>
<td>TCO 361 Usability</td>
</tr>
<tr>
<td>XXX Elective</td>
<td>TCO XXX TCO Elective V</td>
</tr>
<tr>
<td>XXX Elective</td>
<td>XXX Gen Ed Grp 4</td>
</tr>
<tr>
<td>XXX Gen Ed Grp 3</td>
<td>XXX Gen Ed Grp 2/3/4/6</td>
</tr>
<tr>
<td>BUS 346 Legal, Ethical and Reg Env of Bus I (Prof. Track Elective)</td>
<td>TCO 480 Intro to Internship</td>
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<td>(Prof. Track Elective)</td>
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### Summer Semester

<table>
<thead>
<tr>
<th>Fall Semester</th>
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<tbody>
<tr>
<td>TCO 490 Internship</td>
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SCHOOL OF ENGINEERING / 385
## Senior Year

### Fall Semester
- TCO 363 Instructional Design 3 0 3
- TCO XXX TCO Elective VI 3 0 3
- BAM 602 Fin Report. & Analysis 3 0 3
- TCO 620 Managing Multimedia 3 0 3

### Spring Semester
- TCO 421 Tech Editing 3 0 3
- TCO XXX TCO Elective VII 3 0 3
- XXX Elective 2 0 2
- TCO 630 Man. People & Proj. 3 0 3
- BAM 620 Sem. in Strat. Mktg 3 0 3

### Summer Semester
- BAM 608 Global Macro Analysis 3 0 3
- BAM 612 Corporate Fin. Mgmt 3 0 3

### Graduate Year

### Fall Semester
- TCO XXX TCO Elective VIII 3 0 3
- XXX Elective 3 0 3
- BAM 606 Applied Macro Analysis 3 0 3
- BAM 616 Mgmt & Leadership 3 0 3

### Spring Semester
- XXX Elective* 3 0 3
- TCO 630 Man. People & Proj. 3 0 3
- BAM 620 Sem. in Strat. Mktg 3 0 3

### Summer Semester
- BAM 618 Advanced Seminar in Business Ethics 3 0 3
- BAM 699 MBA Capstone 3 0 3

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*Number of undergraduate Free Electives will vary; must reach total of 120 hours for all undergraduate work (courses numbered 101-499).

## TCO Courses

### TCO 141. Introduction to Professional Communication (3-0-3)
In a seminar format, small groups explore the history of technology, and the impact of technology 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 in both written and oral format.

### TCO 285. Document and Web Design (3-0-3)
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.

### TCO 325. Multimedia (3-0-3)
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. Includes laboratory exercises and design projects.

TCO 341. Technical Communication (3-0-3)
Prerequisites: TCO 141 or equivalent; completed minimum of 45 credit hours.
Introduction to forms and processes of technical communication, including letters and memos, resumes, reports, instructions, and proposals. Includes oral presentations, peer reviews, and collaborative efforts. Emphasis is on determining audience and purpose, especially within organizational contexts, and on designing effective documents. Introduction to research and data gathering.

TCO 345. Communication in Management (3-0-3)
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.

TCO 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. Includes laboratory exercises and design projects.

TCO 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.

TCO 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. Includes laboratory exercises and design projects.

TCO 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 the complex analytical skills required for technical editors.

TCO 425. Applied Multimedia (3-0-3)
Prerequisites: TCO 285 and TCO 325.
This course is an applied study of the technical aspects of multimedia, including animation, video, audio, podcasting, and multimedia portfolios. Students will build web content in a col-
laborative environment, author custom animation, and shoot and edit digital video for incorporation into an online project. The end deliverable is a professional portfolio. Includes laboratory exercises and design projects.

**TCO 451. International Technical Communication**  
Prerequisites: TCO 341.  
An introduction to the theory and practice of multicultural communication. Students will examine how cultural variables (beliefs, attitudes, and values) shape the communication process. Emphasis on understanding the theory, research, and practices that technical communicators need to consider when internationalizing and localizing communications products.

**TCO 476. Communication in High-Tech Environments**  
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.

**TCO 480. Introduction to Internship**  
Prerequisites: TCO 341 and at least two additional required TCO Courses.  
Course provides guidance for the required Internship. To successfully complete the course, students will find an appropriate full-time internship. Seminars will be conducted to assist students in creating portfolios, defining projects, creating an action plan, and interviewing with potential clients or employers. Seminar attendance is required to obtain a satisfactory course grade. Graded S/U.

**TCO 490. Technical Communication Internship**  
Prerequisite: permission of TCO Department Chair.  
This full-time, semester-long internship is required 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.  
SPECIAL COURSES: TCO 491, 492, 493, 499 for variable credit. May be repeated for credit with approval of academic advisor and the Technical Communication Department Chair.

**TCO 491-492-493. Special Topics**  
(1-6 hours)

**TCO 499. Independent Study**
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 professional education community.

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. Create an environment that encourages consideration of viewpoints other than one's own, including viewpoints associated with other cultures and traditions.

8. Fosters commitment to live as an engaged and informed citizen.


10. Encourage 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
- Master of Arts in Teaching
- Specialist in Education
- Doctor of Philosophy

**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 Special Education General Curriculum or Middle Level Education. In addition to these majors, the Tift College of Education, in conjunction with the College of Liberal Arts and the Townsend School of Music, offers certification programs in secondary education (6-12) and music education (P-12). Mercer's Teacher Education programs are approved by the Georgia Professional Standards Commission and accredited by the National Council for Accreditation of Teacher Education.

**The Undergraduate Degree Programs include the following:**

**Majors**

- The Holistic Child (Early Childhood/Special Education General Curriculum P-5 Certification)
- Middle Level Education (4-8 certification)

**Certification Programs in conjunction with the College of Liberal Arts and the Townsend School of Music include the following:**

- Secondary (6-12 certification):
  - Biology
  - Chemistry
  - Earth/Space Science
  - English
  - History
  - Mathematics
  - Physics (pending approval from the Georgia Professional Standards Commission)
  - Political Science
- P-12 Certification:
  - Music

**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. A student who wants to teach at the secondary level must major in a content area. See the Tift College of Education Secondary Program Coordinator for more information.

General Education Requirements

General Education Requirements: General Education core requirements must include a minimum of 30 hours and at least one course (3 hrs.) in each of the six broad categories listed below.

Communication: Written and Oral (15-16 hrs.)
- INT 101
- INT 201
- WRT 120
- COM 210
- INT 301 or Any Foreign Language

Religion: (3 hrs.)
- CHR 101; CHR 150; CHR 170; CHR 210; ENG 225; HIS 160; PHI 240

Humanities/Fine Arts: Choose 1 from each group. (6 hrs.)

- **Group 1:** HIS 110; HIS 165; CHR 210; CHR 270; CLA 101; CLA 102; ENG 224; ENG 263; ENG 265; PHI 190; PHI 230
- **Group 2:** ART 106; ART 107; ART 115; ART 116; ART 223; ART 224; ART 225; ART 226; ENG 223; ENG 226; ENG 234; ENG 235; ENG 237; MUS 151; PHI 260; PHI 218; PHI 265; PHO 230; THR 115

Behavioral/Social Sciences: (3 hrs.)
- AFR 190; AFR 210; ANT 101; COM 230; COM 250; GEO 111; GJS 200; JMS 101; PHI 237; PSY 101; POL 101; SOC 101; WGS 180

Quantitative Reasoning (3-4 hrs.)
- MAT 104; STA 126; MAT 141; MAT 191

Scientific Reasoning: (4 hrs.)
- BIO 102; BIO 110; CHM 111; ENB 105; ENB 150; PHY 102; PHY 105; PHY 109; PHY 115; PHY 141; PHY 161

UNV 101: (1 hr.)

Total Semester Hours: 35-37

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. A student choosing the Great Books option will also need to complete the quantitative reasoning and scientific reasoning requirements.
University Honors Program in the Tift College of Education (UHP)
(formerly Tift College of Education Honors Program)

The University Honors Program (UHP) provides academically advanced students with the supportive environment needed to pursue their intellectual interests through research within distinctive paths of enrichment. The specific goals of the program include:

• Cultivating students who ask questions, think well in answering those questions, make interdisciplinary connections in answering those questions, and can construct creative analytical responses when engaged in collaborative or independent problem solving.

• Cultivating students who obtain the distinctive characteristics necessary to compete successfully for graduate and professional school entrance, for national and international fellowships and scholarships, and for leadership roles in the student's chosen profession.

• Cultivating a community of scholars who are interested in sharing cultural, research, and leadership experiences across the tracks.

Exceptional students, either upon entrance to Mercer or after the end of their first semester, are invited to join the program based upon superior academic records in high school, demonstration of interest in their particular path, and an entrance interview. Each of the tracks is constructed to emphasize growth and development along that track during the student's career at Mercer, beginning with a first year course introducing students to the foundational concepts, methods, and terminology of academic research and documentation. In subsequent years, students will progress through their track, culminating in an advanced research and documentation project appropriate to their individual track. In addition to these two basic requirements, University Honors Program students must complete the coursework designated within their individual tracks, maintain a portfolio of their work that contains both developmentally appropriate content and reflection, participate in a designated number of University Honors Program experiences, and maintain a minimum GPA as defined by their specific track.

General Requirements of the Program

• Completion of a first year research seminar
• Demonstration of the student's growth within the track through the production of appropriate annual products as defined within the track
• Maintenance of a portfolio of work generated by the student through the track
• Presentation of work at BEAR Day or a regional/national conference appropriate to the track
• Completion of a Culminating Project appropriate to the track
• Participation in two University Honors Program Events annually and submission of a reflective essay on each event
• Maintenance of a minimum GPA appropriate to the track

Tracks open to Tift College of Education Students: Mercer Research Scholars Track, Mercer International Scholars Track, and Mercer Service Scholars Track. For specific requirements of each track see the section entitled "University Honors Program" in the Academic Information section of this catalog.
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 Educator - 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. Believes in his or her own efficacy as an educator and 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 be familiar with and 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 Special Education), or Middle Grades Education, or a student in the College of Liberal Arts or the Townsend School of Music seeking secondary (6-12) or special subject (P-12) certification must formally apply for admission to the Teacher Education program.

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 Tift 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 Mercu 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 re-application.

Admission to Teacher Candidacy

To be fully admitted to teacher candidacy, a student must:

1. Have a cumulative undergraduate GPA of 2.5
2. Have taken and have earned no grade below a “C” in INT 101 and INT 102.
3. Have taken and have earned no grade below a “C” in the math core class.
4. Have passed all education courses taken and have earned no grade below a “C”.
5. Have passed all courses taken for areas of concentration in middle grades or for certification in secondary and P-12 content areas and have earned no grade below a “C”.
6. Have passed all GACE Basic Skills tests with a score on each test that reflects the minimum score 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, ACT, GRE, CBEST, CLAST, FTCE-GK or other exemption criteria as noted at gapsc.com.
7. Have declared a major in teacher education. Secondary education students need to declare the appropriate major in the College of Liberal Arts and need to declare the intent to seek Secondary Education Teacher Certification (See Major–Minor Form). Those students seeking P–12 certification in music should declare Music Education as a major in the Townsend School of Music (See Major-Minor Form).
8. Have submitted an application for admission to Teacher Candidacy in the semester prior to registering for any restricted 300 and 400 level education courses.
9. Have passed the online Information Session test.

Progression Policy

Once a student is admitted to Teacher Candidacy, he/she must:

1. Maintain a cumulative GPA of 2.5 or better.
2. Maintain a 2.75 or better in all education courses required for the major. Students in the Middle Level Education program must maintain a 2.75 GPA or better in all education courses required for the major as well as a 2.75 GPA or better in each area of concentration. Students in a Secondary Education or P-12 program must maintain a 2.75 or better in all education courses required as well as a 2.75 or better in the secondary or P-12 major.
3. Successfully complete all education courses. A teacher candidate who receives a grade below “C” in more than two (2) education courses will be dismissed from the Teacher Education Program. Only two (2) education courses with grades below “C” may be repeated, and no education course may be repeated more than one time.

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4. Have positive recommendations from each field experience in order to advance in the sequence of field experiences. Please note that field experience placements must meet all diversity criteria, i.e., placement in a minimum of three (3) different schools and placement in required grade clusters.

5. Have successfully completed all education courses and all content courses required for certification prior to recommendation for student teaching. Further, in order to be recommended for student teaching, a student may have no more than eight (8) hours of general education coursework to be completed in the term following student teaching.

Candidate for Certification

In order to be recommended for licensure/certification, a teacher candidate must:

1. Have successfully met all Progression Policy criteria.
2. Have a positive recommendation from student teaching.
3. Have successfully completed all program/degree requirements.
4. Have successfully completed Portfolio requirements.
5. Have successfully passed the appropriate GACE Content test(s) and have submitted complete score reports to the appropriate Certification Office.
6. Have met all state requirements for certification.

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.

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 experience is an integral part of the Teacher Preparation Program. Each candidate is expected to complete field experiences in diverse settings, and meet cluster requirements of their individual program plan. (See program plans for specific number of field experiences and cluster requirement information.) Field experiences are coordinated through the Office of Field Placement, and additional fees will be assessed for each field experience course. Candidates should do the following to be considered eligible for any field experience course:

- Meet with Advisor prior to applying for field experience courses
- Watch the on-line video about field experiences and pass the test. (first experience only) http://education.mercer.edu/current/field-experiences/online-information-session.cfm
• Apply during the application period
• Comply with the Criminal Background Check process
• Obtain Tort Liability Coverage.

All school systems with which Mercer University maintains a partnership for field experiences requires a clear criminal history and liability insurance before the student may be placed in a school. Securing criminal history clearance and insurance coverage and maintaining both are the candidate's responsibility.

**Criminal Background Check**

Mercer University has chosen CertifiedBackground.com as our approved source for background checks. Each Mercer student will order and purchase his/her own background check directly online. The cost will be $45.00 payable by Visa, MasterCard or money order. When you complete your order, you will be prompted to electronically sign a Georgia statewide release form with Certified Profile. Make SURE you do this to complete your order. The results of the background check will be posted to the CertifiedBackground.com website in a secure, tamperproof environment. Once the order is submitted, the student will receive a secure password via email to use to view and print the results of the check. The results will be available in approximately 48-72 hours.

**HOW TO ORDER**

You will need your Student ID number, social security number, and Visa or MasterCard. Go to www.CertifiedBackground.com and click on Students.

1. In the Package Code Box, enter MG24
3. Answer all questions and click on Submit.

**Liability Insurance**

Teacher education students are required to obtain Tort Liability Insurance prior to any field experience.

This insurance covers expenses related to civil suits brought against education students for acts or omissions that occur at a school. No amount of vigilance or professionalism can prevent some accidents. Also, a suit that incurs expenses can be brought against a person even if it is groundless. For these reasons, education students are required to obtain Tort Liability Insurance. Tort Liability insurance is required for field experiences in any class. Be advised that you will need to provide proof of coverage/membership each semester. Proof of coverage is documented when applying for field experiences. For a small fee, you must obtain coverage by joining one of the following student organizations: Georgia Association of Educators (GAE) www.gae1.org or Student Professional Association of Georgia Educators (SPAGE). www.pagefoundation.org
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:

Content and Process: To Know

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. (Understanding)
2. Acquire a knowledge base about various curriculum models and best practices. (Understanding)
3. Appreciate the importance of community in working with all children and their diversity, including ethnic, language, cultural, socio-economic, disabilities, and gender. (Diversity)

Application: To Do

1. Construct and implement an integrated, developmentally appropriate curriculum for all areas of a child's development, including cognitive, emotional, social, and physical. (Practicing and Engagement)
2. Demonstrate competency in developing and implementing a wide variety of diagnostic and assessment techniques and strategies. (Practicing)
3. Integrate technological advances as a routine part of the curriculum. (Engagement)

Attitude: To Be

1. Know self as an individual and recognize one’s point of growth along the continuum of teaching as an emerging, developing, and transforming practitioner. (Reflecting)
2. Advocate for young children and their families. (Collaboration)
3. Collaborate with other professionals, families and the broader community in planning and implementing instructional programs. (Collaboration)
The Holistic Child
B.S.Ed. Degree
128 Semester Hours

Requirements

General Studies .......................... 35-37 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 IIA
EDUC 202B. Field Component IIB
EDUC 311A. Field Component IIIA
EDUC 313B. Field Component IIIB
EDUC 480. Field Component IVA
EDUC 496. Field Component IVB

Content Studies .......................... 36 hours
EDUC 315. Curriculum Planning (6 hours)
EDUC 316. Collaboration
EDUC 317. Social and Cultural Studies
EDUC 331. Math/Science Methods
EDUC 332. Teaching Reading
EDUC 333. Curriculum-based Assessment
EDUC 334. Literature and Language Arts
EDUC 402. Reading Problems — Diagnosis/Remediation
EDUC 403. The Home, School, and Community Connection
EDUC 404. The Holistic Capstone: A Fine Arts Approach
EDUC 405. Classroom Management

Electives .................................. 16-18 hours

Portfolio .................................. 0 hours

TOTAL .................................. 128 semester hours
# The Holistic Child

## Schedule of Courses

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1st Year</strong></td>
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<tr>
<td>EDUC 101</td>
<td>EDUC 102</td>
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<tr>
<td>EDUC 102B</td>
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<tr>
<td><strong>2nd Year</strong></td>
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<tr>
<td>EDUC 201</td>
<td>EDUC 202</td>
</tr>
<tr>
<td>EDUC 201A</td>
<td>EDUC 202B</td>
</tr>
<tr>
<td><strong>3rd Year</strong></td>
<td></td>
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<tr>
<td>EDUC 311</td>
<td>EDUC 313</td>
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<tr>
<td>EDUC 315</td>
<td>EDUC 331</td>
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<td>EDUC 316</td>
<td>EDUC 332</td>
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<td>EDUC 334</td>
<td>EDUC 317</td>
</tr>
<tr>
<td>EDUC 311A</td>
<td>EDUC 313B</td>
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<tr>
<td><strong>4th Year</strong></td>
<td></td>
</tr>
<tr>
<td>EDUC 333</td>
<td>EDUC 405</td>
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<tr>
<td>EDUC 402</td>
<td>EDUC 496</td>
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<td>EDUC 403</td>
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<tr>
<td>EDUC 404</td>
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<tr>
<td>EDUC 480</td>
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</tbody>
</table>

## MIDDLE LEVEL EDUCATION

The goal of the Mercer University Tift College of Education is to prepare middle level educators as Transforming Practitioners who move through self-transformation during the facilitation of learning, while enabling the transformation of middle level students, a group of unique and diverse individuals transitioning from childhood to adolescence. Candidates in the Middle Level Education program are prepared in general studies, professional and pedagogical studies, and content studies, which include two subject area concentrations. Completion of this program qualifies candidates for Middle Grades Certification in the two areas of concentration.

### Program Objectives/Outcomes

Upon completion of the Middle Level Education program, the candidate will demonstrate:

1. A knowledge base that blends knowledge of development of 10-14 year-olds with in-depth knowledge of content, pedagogy, and assessment in the two concentration areas. **TO KNOW**

2. Understanding of the middle school philosophy and concept and knowledge of the characteristics of an effective middle school. **TO KNOW**

3. Knowledge and understanding of middle school students and the uniqueness and diversity (age, ability, gender, special needs, etc.) exhibited by that group of students, and the ability and skills to meet the needs of the diversity exhibited in today’s middle schools. **TO KNOW**

4. Knowledge and understanding of effective curricular models that meet the unique needs of middle level students. **TO KNOW**
5. Knowledge and understanding of “teaming” and the ability and skills to collaborate effectively in such a setting, which involves knowledge of content, pedagogy, and assessment across the four concentration areas and of integrated teaching and learning. **TO KNOW, TO DO, TO BE**

6. Knowledge of reading in the content areas and across the curriculum. **TO KNOW**

7. The ability and skills to effectively plan, organize, implement, and assess in a collaborative team setting and as an individual. **TO DO**

8. The ability and skills to provide an effective advisor-advisee component in the middle school curriculum. **TO DO**

9. The ability and skills to be an effective collaborator with families, community, and other partners. **TO BE**

10. The ability and skills to engage in meta-cognition and reflection for continued enhancement and effectiveness as a Transforming Practitioner. **TO BE**

To be highly qualified, the Middle Level Education teacher candidate must be prepared with the uniqueness of middle level schooling as a defining characteristic. In addition to strong preparation in the two content concentrations, the Middle Level Education curriculum includes an embedded emphasis on reading and a focus on integrated instruction. The reading emphasis (which does not result in a reading concentration or a reading endorsement) is a strand in five required courses and prepares teachers to address the literacy needs of middle level students. The focus on integration is highlighted in two integrated methods courses that address integrated, interdisciplinary planning, teaching, and assessment.

**MIDDLE LEVEL EDUCATION**

B.S.Ed. Degree
128 Semester Hours

**Requirements**

**General Studies:** ..................................................minimum 35-37 hours

**Professional and Pedagogical Studies:** ...........................32 hours

- EDUC 220. Foundations of Education
- EDUC 256. Adolescent Health & Development
- EDUC 283. Fundamentals of Special Education
- EDUC 357. Psychology of Learning
- EDUC 398. Fieldwork I
- EDUC 399. Fieldwork II
- EDUC 485. Professional Practicum
- EDUC 406. Classroom Management for MLE and SEC
- EDUC 492. Student Teaching

**Content Studies** ..................................................minimum 53 hours

- EDUC 210. Instructional Technologies for Teaching and Learning
- EDUC 360. Introduction to Middle Level Schooling

Two Concentration Methods Courses, chosen from the following:

- EDUC 422. Teaching of Science for MLE
- EDUC 429. Teaching of Social Studies for MLE
- EDUC 455. Teaching of Mathematics for MLE
- EDUC 466. Teaching of English/Language Arts for MLE

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EDUC 460. Middle School Curriculum
EDUC 461. Middle Level Integrated Methods I: Processes
EDUC 462. Middle Level Integrated Methods II: Instruction & Assessment
EDUC 478. Teaching Literacy for MGE

Concentration I (6 courses)*
Concentration II (6 courses)*
*1-2 concentration courses will overlap with general studies

Electives ................................................................. .6-8 hours
Portfolio ................................................................. 0 hours

TOTAL ................................................................. minimum 128 hours

MIDDLE LEVEL CONCENTRATIONS

**Language Arts Concentration**
EDUC 466: Teaching English/Language Arts MGE
EDUC 379: Young Adult Literature
English Language Course (choose 1: ENG 323 or 325)
Any Cultural/Ethnic/Women's Literature
Any British Literature
Any American Literature
Any Literature

**Science Concentration**
EDUC 422: Teaching Science MGE
Earth Science Courses
ENB 105: Geology
ENB 110: Meteorology or PHY 115
Life Science Course: (choose 1: BIO 110; BIO 211; BIO 212; ENB 150)
Chemical/Physical Science Course:
(choose 1: CHM 111; CHM 112; CHM 115; PHY 141/121L; PHY 161/121L)

**Mathematics Concentration**
EDUC 455 Math Methods for MGE
Choose one of two tracks

**Track 1:**
MAT 133 Precalculus*
MAT 191 Calculus I
MAT 192 Calculus II
MAT 260 Intro to Abstract Mathematics
MAT 340 Linear Algebra
MAT 350 College Geometry

**Track 2:**
MAT 133 Precalculus*
MAT 191 Calculus I
MAT 225 Intro to Discrete Mathematics
MAT 340 Linear Algebra
MAT 350 College Geometry
Choose 1:
STA 126 Elementary Statistical Methods
MAT 320 Intro to Probability and Mathematical Statistics
POL 253; 313)

**Social Studies Concentration**
EDUC 429: Teaching Social Studies MGE
Western Civilization Survey
HIS 110
American History Course
(choose 1: HIS 165; 352; 354; 355; 356; 361; 362; 363; 377)
Geography or SOC 321:
GEO 111: Principles of Human
Globalization and Society
INT 301: Engaging the World
Government Course (choose 1:
POL 101 or 305)

**Track 1:**
MAT 133 Precalculus*
MAT 191 Calculus I
MAT 225 Intro to Discrete Mathematics
MAT 340 Linear Algebra
MAT 350 College Geometry
Choose 1:
STA 126 Elementary Statistical Methods
MAT 320 Intro to Probability and Mathematical Statistics
POL 253; 313)

**Track 2:**
MAT 133 Precalculus*
MAT 191 Calculus I
MAT 225 Intro to Discrete Mathematics
MAT 340 Linear Algebra
MAT 350 College Geometry
Choose 1:
STA 126 Elementary Statistical Methods
MAT 320 Intro to Probability and Mathematical Statistics
POL 253; 313)

* Students placing into MAT 191, choose one additional course
MIDDLE LEVEL EDUCATION
RECOMMENDED SEQUENCE OF STUDY

Fall Semester                      Spring Semester

Junior Year
EDUC 220                     EDUC 357
EDUC 256                     EDUC 283
EDUC 210                     EDUC 399
EDUC 360                     EDUC 460
EDUC 398                     EDUC 461
Content                      Content and/or Concentration

Senior Year
EDUC 485                     EDUC 492
EDUC 462                     EDUC 406
Content and/or Concentration
Methods (EDUC 422, 429, 455, and/or 466)

CERTIFICATION PROGRAMS
SECONDARY/P12 SPECIAL SUBJECTS

Mercer University degree-seeking students can add secondary certification to majors in English, Mathematics, Biology, Chemistry, Environmental Biology*, History, Physics, (pending approval from the Georgia Professional Standards Commission) and Political Science. P-12 certification is available for majors in Music. Program Objectives/Outcomes for each certification program and individual program descriptions are in the Teacher Education Handbook. Students must meet the requirements for a degree in the relevant major and any additional courses required for certification.

*(Students with majors in Environmental Biology can add the certification courses that will prepare them for certification in Secondary Earth/Space Science.)

Requirements

Professional and Pedagogical Studies ..................................................33 hours
EDUC 210. Instructional Technologies for Teaching and Learning
           (not required for Music certification)
EDUC 220. Foundations of Education
EDUC 256. Adolescent Health and Development
EDUC 283. Fundamentals of Special Education
EDUC 357. Psychology of Learning
EDUC 398. Fieldwork I
EDUC 399. Fieldwork II
EDUC 485. Professional Practicum
EDUC 406. Classroom Management for MLE and SEC
EDUC 492. Student Teaching

Content Studies ............................................................varies by Major
English          EDUC 469. Secondary School Curriculum
Certification:   EDUC 468. Teaching English in the Secondary School
                    EDUC 476. Teaching Literacy 6-12
                    English major to include ENG 323 or 325
<table>
<thead>
<tr>
<th>Mathematics</th>
<th>EDUC 469. Secondary School Curriculum</th>
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<tr>
<td></td>
<td>EDUC 476. Teaching Literacy 6-12</td>
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<tr>
<td>Math major to include MAT 350 and 320; MAT 225 recommended</td>
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<tr>
<td>Biology, Chemistry, &amp; Earth/Space Science</td>
<td>EDUC 469. Secondary School Curriculum</td>
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<tr>
<td>Biology major to include GHS 200: Introduction to Health Sciences</td>
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<tr>
<td>PHY 141/121L and 142/142L</td>
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<tr>
<td>Chemistry major to include BIO 211 and 212 and CHM 465</td>
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<td>Environmental Biology major include ENB 110; ENB 220 or ENB 310; and PHY 115</td>
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<tr>
<td>History &amp; Political Sci Certification:</td>
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<td>History major to include at least one course in Non-Western History</td>
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</tr>
<tr>
<td>Political Science major to include POL 348 or 349 and one course in Comparative Governments</td>
<td></td>
</tr>
<tr>
<td>Music Certification:</td>
<td>EDUC/MUS 157. Vocal Techniques</td>
</tr>
<tr>
<td>Music Education major is fully described in the School of Music section of the catalog.</td>
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</tr>
<tr>
<td>ENG 325.</td>
<td>Contemporary Theories in Linguistics</td>
</tr>
<tr>
<td>EDUC 312.</td>
<td>Teaching Speakers of Other Languages</td>
</tr>
<tr>
<td>EDUC 314.</td>
<td>ESOL Methods and Materials</td>
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**English to Speakers of Other Languages (ESOL) Endorsement**

A program leading to an endorsement in English to Speakers of Other Languages (ESOL) is available to Tift College of Education students who are seeking or hold a valid teaching certificate in any field. Successful completion of the three course sequence will lead to eligibility for an in-field endorsement in ESOL. The courses required for the endorsement are the following:

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</table>
TEACHER EDUCATION MINOR

The minor in teacher education is available to all Mercer undergraduate students; however, receiving a minor in teacher education does not fulfill the requirements for teacher certification. The teacher education minor consists of 18 semester hours of education courses, of which at least six hours must be above the 300-level and must be completed with Mercer. Students who have not been fully admitted to candidacy in teacher education but wish to complete a minor must choose the 18 hours from among unrestricted courses (any 100- or 200-level EDUC course, plus EDUC 357, 360, 378, 379). Students who have been fully admitted to teacher education and decide to minor in teacher education may include restricted courses in the 18-hour requirement for the minor.

EDUCATION (EDUC)

EDUC 101, 102. The Holistic Child I & II (3 hours)
Prerequisite to 102: 101
Corequisite to 102: 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)

EDUC 102B. Field Component I B - The Holistic Child (1 hour)
Corequisite: EDUC 102.
This field experience provides a field-based experience for students enrolled in The Holistic Child program. Students spend a minimum of 24 hours over the course of the semester 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. Application required. Seminar attendance required.

EDUC 157. Vocal Techniques (2 hours)
(Same as MUS 157)
Development of individual performance skills in voice. Instruction will broaden pedagogical understanding and provide group vocal techniques and methods for elementary and secondary school music teachers and for students interested in improving their individual singing voice. Survey and evaluation of materials related to vocal development.

EDUC 201, 202. The Learning and Developing Child I & II - The Holistic Child (3 hours)
Prerequisites: EDUC 101, 102, 102B.
Corequisite: EDUC 201A, 202B.
The purpose of these courses is to investigate the physical, social, emotional, and educational characteristics of young children. Particular emphasis will be placed on language development, individuals with mild intellectual disabilities, emotional and behavioral disorders, and learning disabilities, in conjunction with current theories and practices regarding litigation and legislation, assessment, advocacy, and educational resources. (3 hours each)

EDUC 201A, 202B. Field Component II A & B - The Holistic Child (1 hour)
Prerequisite: EDUC 102B.
Corequisite: EDUC 201, 202.
These courses provide field-based experiences for students enrolled in the Holistic Child program. Students spend a minimum of 35 hours over the semester observing and partici-
pating 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. Application required.

**EDUC 210. Instructional Technologies for Teaching and Learning**  
(3 hours)

This course will cover technologies utilized in the classroom. Emphasis is placed on organizing, planning, and assessing learning while using various technological tools.

**EDUC 215. Sophomore Practicum I**  
(1 hour)  
*Same as MUS 215*

Sophomore Practicum I will meet each spring semester on a TBA schedule. Each student enrolled will be assigned to various elementary schools in the region for 1-2 hours weekly. At these schools the student will observe the cooperating teacher and engage in minor teaching as appropriate for the situation and experience level of the student. A portfolio of each observation/teaching experience will be maintained for each school visit.

**EDUC 216. Sophomore Practicum II**  
(1 hour)  
*Same as MUS 216*

Sophomore Practicum II will meet each fall semester on a TBA schedule. Each student enrolled will be assigned to various secondary schools (vocal and instrumental) in the region for 1-2 hours weekly. At these schools the student will observe the cooperating teacher and engage in minor teaching as appropriate for the situation and experience level of the student. A portfolio of each observation/teaching experience will be maintained for each school visit.

**EDUC 220. Foundations of Education**  
(3 hours)

This course will address topics of historical, sociological, philosophical, ethical, and professional significance to the discipline of education, and it 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.

**EDUC 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.

**EDUC 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.
EDUC 223. Performance and Instruction Techniques: (2 hours)
    Brass
    (Same as MUS 223)
    Development of personal performance skills on cornet or trumpet, horn, trombone, eupho-
    rium, and tuba. Instruction in methods and techniques for elementary and secondary school
    music teachers. Survey and evaluation of materials and equipment.

EDUC 224. Performance and Instruction Techniques: (2 hours)
    Stringed Instruments
    (Same as MUS 224)
    Development of personal performance skills on violin, viola, violoncello, and double bass.
    Instruction in methods and techniques for elementary and secondary school music teach-
    ers. Survey and evaluation of materials and equipment.

EDUC 256. Adolescent Health and Development (3 hours)
    A study of the healthy development of adolescents. Specific attention will be given to the
    influences of health on biological, cognitive, social-emotional, and psychomotor develop-
    ment.

EDUC 283. Fundamentals of Special Education (3 hours)
    This course explores the fundamentals of special education in America's schools. Emphasis is
    given to the historical development of special education, relevant legislation and litigation,
    educational policy, and contemporary trends and issues. This course satisfies the special
    education requirement for Georgia certification.

EDUC 311, 313. The Learning Environment I & II - (3 hours)
    The Holistic Child
    Prerequisites: EDUC 101, 102, 201, 202.
    Corequisites: 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 collabo-
    rative skills, and effective pedagogy for culturally and linguistically diverse students. (3 hours
    each)

EDUC 311A, 313B. Field Component III A & B - (1 hour)
    The Holistic Child
    Prerequisites: EDUC 102B, 201A, 202B; full admission into Teacher Education for Holistic
    Child Program.
    Corequisites: 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 the semester observing and
    participating in activities related to and associated with young children (P-5) in a regular
    education and in special needs classroom settings. Candidates will be placed in one of the
    two settings for Field Component 311A and in the other setting for Field Component 313B.
    Students are required to attend field component seminars as scheduled. (1 hour each)
    Note: grades of satisfactory (S) or unsatisfactory (U). Special fee. Application required.

EDUC 312. Teaching Speakers of Other Languages (3 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.

EDUC 314. ESOL Methods and Materials (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, and the Language Disorder Program will be examined.

EDUC 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 and technology, developmentally-appropriate practices, special education, and methods for assessing student performance.

EDUC 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.

EDUC 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.

EDUC 331. Methods for Science and Mathematics - The Holistic Child (6 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.

EDUC 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.
EDUC 333. Curriculum-based Assessment - The Holistic Child
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.

EDUC 334. Language Arts and Literature - The Holistic Child
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.

EDUC 357. Psychology of Learning
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.

EDUC 360. Introduction to Middle Level Schooling
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.

EDUC 370. The Elementary School Music Specialist (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.

EDUC 378. Children's Literature
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.

EDUC 379. Young Adult Literature
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.

EDUC 390. Special Topics
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.
EDUC 398. Fieldwork I (1 hour)
Prerequisite: full admission status.
This course provides a semester-long school-based experience for education students. Students will be assigned to diverse public schools and will spend a minimum of 35 clock hours 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. Application required.

EDUC 399. Fieldwork II (1 hour)
Prerequisites: EDUC 256, 357, and full admission status.
This course provides a semester-long school-based experience for education students. Students will be assigned to diverse public schools and will spend a minimum of 35 clock hours observing and participating in teaching and learning activities. Students are required to attend Fieldwork II seminars. Note: Grades of satisfactory (S) or unsatisfactory (U). Special fee. Application required.

EDUC 402. Reading Problems: Diagnosis & Remediation - (3 hours)
The Holistic Child
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.

EDUC 403. Connecting Homes, School, and Community - (3 hours)
The Holistic Child
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 broader community are addressed.

EDUC 404. The Holistic Capstone: A Fine Arts Approach - (3 hours)
The Holistic Child
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.

EDUC 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. Co-requisite: EDUC 496. This course is an introduction to theory, knowledge, and strategies for classroom management for educators 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.
EDUC 406. Classroom Management for MLE and SEC (3 hours)
Corequisite: EDUC 492.
This course is an introduction to theory, knowledge, and strategies for classroom management for educators who work with middle level and secondary students. Focus is on management as a triangular model that demonstrates the inter-relatedness of content, conduct, and covenant relationships. Practical application is emphasized, and teacher candidates are expected to develop their own relevant classroom management plans that could be effectively implemented in the public school classroom.

EDUC 422. Teaching Science for MLE (3 hours)
Prerequisites: EDUC 220, 256, 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.

EDUC 423. Teaching Science for Secondary (3 hours)
Prerequisites: EDUC 220, 256, 357, 469, 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.

EDUC 429. Teaching Social Studies for MLE (3 hours)
Prerequisites: EDUC 220, 256, 357, 360, 469, 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 interdisciplinary nature of social studies will be the focus for the study of curriculum, methods, technology, and professional sources. An emphasis will be on the planning for and development of resources (including the development of a unit).

EDUC 430. Teaching Social Science for Secondary (3 hours)
Prerequisites: EDUC 220, 256, 357, 469, and 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 professional sources and on developing instructional materials suitable for high school students.

EDUC 455. Teaching Mathematics for MLE (3 hours)
Prerequisites: EDUC 220, 256, 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.

EDUC 456. Teaching Mathematics in the Secondary School (3 hours)
Prerequisites: EDUC 220, 256, 357, 469, MAT 133, 350, and full admission status.
Study includes developmentally appropriate methods, materials, media, technology, and techniques for diagnosing, correcting, teaching, and evaluating mathematics in grades 6-12.

EDUC 460. Middle School Curriculum (3 hours)
Prerequisites: EDUC 220, 256, 357, 360, and full admission status.
The development of middle school curriculum as it has been shaped by sociocultural and technological forces will be examined. Topics to be studied include curriculum planning and assessment, common core curriculum, advisee/advisor curriculum, exploration, school...
activities, integrating the curriculum, and instructional practices appropriate for the young adolescent learner. Issues, trends, and research relevant to effective middle-level instructional practices are discussed.

EDUC 461. Middle Level Integrated Methods I: Processes (3 hours)
Prerequisites: EDUC 220, 256, 357, 360, and full admission status.
A study of knowledge, skills, and processes in an integrative manner that pulls together commonalities among the four areas of concentration in the middle grades. Special emphasis is given to the integrative/interdisciplinary nature of the topics, and special attention is given to adaptation for special needs, including gifted and talented.

EDUC 462. Middle Level Integrated Methods II: Instruction and Assessment (3 hours)
Prerequisites: EDUC 220, 256, 357, 360, and full admission status.
A study of instructional methods, integrated/interdisciplinary models of instruction, and assessment as they relate to all subjects and to the diversity and special needs of students in the middle grades.

EDUC 466. Teaching Language Arts/MLE (3 hours)
Prerequisites: EDUC 220, 256, 357, 360, and full admission status.
A study of methods, media, and materials for teaching language arts at the middle school level, including theory, research, curriculum, units of study, and evaluation.

EDUC 468. Teaching English/SEC (3 hours)
Prerequisites: EDUC 220, 256, 357, 469, and 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.

EDUC 469. Secondary School Curriculum (3 hours)
Prerequisites: EDUC 220, 256, 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.

EDUC 474. Advanced Choral Methods (Same as MUS 474) (3 hours)
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.

EDUC 475. Advanced Instrumental Methods (Same as MUS 475) (3 hours)
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.

EDUC 476. Teaching Literacy 6-12 (3 hours)
Prerequisites: EDUC 220, 256, 357, and full admission status.
Students will be introduced to theories, research, and practices related to teaching literacy in grades 6-12. 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.
EDUC 478. Teaching Literacy for MLE (3 hours)
Prerequisites: EDUC 220, 256, 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.

EDUC 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 semester-long course provides a field based experience for students enrolled in the Holistic Child program. Teacher candidates spend a minimum of 80 clock hours 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. Application required.

EDUC 485. Professional Practicum (3 hours)
Prerequisites: Application required, full admission status, successful completion of EDUC 398 and EDUC 399.
This semester-long course provides a school-based teaching experience. Teacher candidates spend a minimum of 60 hours observing and teaching. 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.

EDUC 492. Student Teaching (12 hours)
Prerequisites: application required, full admission status, and successful completion of all required education courses.
This course provides a semester-long, full-day teaching experience for certification candidates who submit an application to the Director 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 Classroom Teacher(s) and University Supervisor. 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.

EDUC 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 corequisite.
Corequisite: EDUC 405.
This course provides a field based experience for students enrolled in the Holistic Child program. The course provides a semester-long, full day 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. Application required.
Townsend School of Music

C. David Keith, Dean/Professor
Stanley L. Roberts, Associate Dean/Professor
Douglas M. Hill, Director of Undergraduate Studies/Professor
Richard Kosowski, Director of Graduate Studies/Associate Professor

Faculty

Douglas M. Hill, C. David Keith, Martha L. Malone, and Stanley L. Roberts, Professors
Milburn Price, Visiting Professor
Ian H. Altman, Montgomery C. Cole, Carolyn S. Goff, Richard Kosowski, Jack Mitchener,
Marcus D. Reddick, Amy Schwartz Moretti, and Christopher Schmitz, Associate Professors
Julie Albers and Elizabeth Pridgen, Assistant Professors
Kathryn White, Visiting Instructor
Robert McDuffie, Distinguished University Professor of Music
Adrian Gnam, Artist-in-Residence
Becca Albers, Rachel Calin, Lawrence Dutton, David Halen, Hans Jorgen-Jenson, and
Kurt Muroki, Visiting Artists
Nancy Rehberg and Marie J. Roberts, Senior Lecturers
Anne Armstrong, Eric Bubacz, Terence Cantwell, Tom Gibson, Jay Hanselman, Katherine
Holland, Calista Koch, Jonathan Swygert, and Kelly Via, Lecturers
Lois Lantz and Lowen Marshall, Professor Emeriti

Mission Statement

The Townsend School of Music fosters excellence in musical learning within the context
of a comprehensive university environment. Undergraduate and graduate studies prepare
musicians for careers in performance, music education, church music, and musical scholar-
ship.

Goals – Music Unit

• To offer undergraduate, graduate, and professional programs in music based upon
  a strong liberal arts foundation.
• To equip student musicians with the necessary artistic skills for excellence in per-
  formance, scholarship, and teaching.
• To promote lifelong learning and musical development.
• To develop an understanding of the role of the arts and artists in society.
• To collaborate with other units within the University to develop in all students an
  awareness of the artistic, creative, and aesthetic dimensions of the whole person.
• To join in partnership with community, regional and national music and artistic
  organizations to assist with helping students make a contribution to their respective
  fields of study.
• To foster the acquisition of critical thinking, writing, and communication skills.
• To support an engaged and highly qualified music faculty.
Admission to Undergraduate Studies

An audition is required for incoming students. Prospective music majors should contact the Administrative Assistant to the Dean for an audition appointment. Scholarships are available; students will be considered for scholarships when they audition. Music students are initially accepted into the School of Music as intended music majors. During the second semester 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 GPA are required to be accepted as a music major. A student may be provisionally accepted with the understanding that the expected GPA levels will be attained within another academic year of study.

First Year Regulation

All intended music majors are required to begin theory and musicianship, keyboard, large ensemble, and applied music lessons in their freshman year. Therefore, MUS 105, 106, 109, 110, 111, 112 are scheduled for the freshman year and MUS 209, 210, 254, 255, 256, 257 for the sophomore year. Those students who exempt 105 or 106, 111, 112, must substitute music electives for those hours. Students whose applied music area is other than keyboard and who exempt MUS 109-110 must substitute two hours of music electives, and such students who exempt MUS 209-210 must substitute four hours of music electives.

Statement of Student Responsibility

Each student bears responsibility for knowing the requirements for their degree and for meeting the requirements. Students should review with their advisor every semester their progress toward meeting graduation requirements.

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.

Transfer and Transient Credit

Transfer credits and advanced placement in music courses will be accepted contingent upon examination. This will ensure that the student is placed in the appropriate music course level for his or her ability. Students who wish to earn transient credit from another institution while enrolled in the BA in Music, BME, or BM Performance program must have prior approval from the director of undergraduate studies. Neither transfer credit nor transient credit may be used to meet the residency requirement.

Academic Warning, Probation, and Suspension

The policies on academic warning, probation, and suspension are specified in the University's undergraduate academic policies. A 3.0 applied music GPA and a 2.0 academic music GPA are required to remain in good standing as a major in music. BME majors are required to maintain a 2.75 academic music GPA. A student placed on probation must reach the expected GPA levels within another academic year of study. A student deemed to be making insufficient progress for a degree program will be dropped from that program.
Readmission

Any student who leaves full-time enrollment in a music degree program for a period of two or more years must formally re-apply and re-audition for acceptance back into the School of Music.

School of Music Honors

Majors may be selected by the music faculty for School of Music Honors by maintaining an overall 3.5 grade point average in music and presenting a senior project that is pursued and completed on a level significantly higher than would normally be required for a senior project. In the case of the Bachelor of Music in Performance degree, the project must be a recital that is appropriate in repertoire level and performance standard for honors consideration.

Music Minor

The requirements for completion of a minor in music include the following twenty-two credits: Successful completion of an entrance audition and musicianship examination; completion of twenty-two credit hours in the following Townsend School of Music courses—MUS 105, 106, 111, 112 (8 hours); 4 hours of ensemble participation chosen from MUS 182, 183, 185, 191, 192, 196 or 197 (entrance audition required for each ensemble); 6 hours selected from MUS 201, 202, 402, 403; 4 hours of applied study dependent upon faculty availability and approval by the Dean; applied music fee required each semester.

Music Industry Minor

The requirements for completion of a music industry minor include the following (nineteen) credits: Successful completion of an entrance audition and musicianship examination; completion of nineteen credit hours in the following Townsend School of Music courses—MUS 105 Music Theory I (3 hours); MUS 109 Class Piano (1 hour); MUS 151 Understanding Music (3 hours); MUS 357 Music Technology (3 hours); MUS 479 Music Business (3 hours); MUS 480.001 Special Topics Recording Workshop I (3 hours); MUS 480.002 Special Topics Recording Workshop II (3 hours). A lab fee is required for each Recording Workshop course.

Private Studio Instruction

A limited number of non-music major students can be accepted for individual applied lessons. A special fee is charged for this instruction. Interested students must pass an entrance audition and be approved by the Dean of Townsend School of Music for study dependent upon availability of the available instructor. Students must be taking other courses at Mercer in order to be eligible to take lessons. Exceptions must be cleared with the Dean of the School of Music.

Accreditation

Mercer University is an institutional member of the National Association of Schools of Music (NASM) and is accredited by the National Council for Accreditation of Teacher Education (NCATE). The music education degree program is also approved by the Georgia Professional Standards Commission.
Requirements of General Education

Students in the Townsend School of Music will satisfactorily complete the following courses to meet the General Education Requirements of the University. The core requirements must include a minimum of 30 credit hours and at least one course (3 credit hrs.) in each of the six broad categories listed below.

General Education

Communications: Written and Oral (16 credits)
INT 101 or GBK 101 (4 credits)
FRE 111-112; or GER 111-112; or SPN 111-112 (8 credits)
COM 210 (3 credits)
WRT 120 (1 credit)

Religion: (3 credits)
CHR 101; 150; 170; ENG 225; HIS 160; PHI 240

Humanities and Fine Arts: (3 credits)
MUS 180; 181; 182; 183; 184; 185; 186; 187; 188; 189; 191; 192; 196; 197; 198 or
One course chosen from either the CLA Western Heritage or Creative Expression block.

Behavioral/Social Sciences: (3 credits)
ANT 101; PSY 101; SOC 101; POL 101; 253

Quantitative Reasoning: (3 credits)
STA 126; MAT 104; 191; CSC 204

Scientific Reasoning: (4 credits)
BIO 110; CHM 111; ENB 105; 110; 150; PHY 102; 105; 108; 109; 115; 141; 161

Additional Requirements: (7 credits)
UNV 101 (1 credit)
MUS 479/BUS 477 (3 credits)
MUS 120 (3 credits)

Total: 39 credits

II. Minor or Additional Depth Requirements (required of BA degree only)

This requirement can be fulfilled by earning a grade point average of 2.0 or higher in one of the following: (1) a second major in another department; or (2) a minor in another department. Students in the Bachelor of Music Education and Bachelor of Music degrees are not required to pursue a minor.
Townsend School of Music Degrees

Bachelor of Music in Performance

This degree is uniquely designed to allow students to develop highly specialized skills and knowledge for a professional career in music performance. Excellence as performers is the School's goal for all students; those majoring in performance, however, are held to a higher standard of technical ability, artistry, and difficulty than those pursuing the other degrees offered in music.

Bachelor of Music Education

This degree provides undergraduate professional training for students intending careers in elementary through secondary school teaching of music. Students completing this curriculum are prepared for State of Georgia P-12 teaching certification in choral and instrumental music. Excellence in teaching competencies is achieved through specialized music education courses in Townsend School of Music and Tift College of Education and is accredited by the National Council for Accreditation of Teacher Education (NCATE) and the National Association of Schools of Music (NASM) and approved by the Georgia Professional Standards Commission.

Bachelor of Arts in Music

This degree is designed to prepare a student to pursue music within the context of a liberal arts program. The unique feature of this degree is the approximately forty-percent degree credits required in music courses. This percentage allows the student ample opportunity to pursue music studies as well as a broad range of liberal arts subjects.

BACHELOR OF MUSIC IN PERFORMANCE

I. Supportive Courses (39 credits)

<table>
<thead>
<tr>
<th>Theory Skills (21 credits)</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUS 105 Music Theory I</td>
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<tr>
<td>MUS 106 Music Theory II</td>
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<td>MUS 111 Basic Musicianship I</td>
<td>1</td>
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<tr>
<td>MUS 112 Basic Musicianship II</td>
<td>1</td>
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<tr>
<td>MUS 256 Music Theory III</td>
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<td>MUS 257 Music Theory IV</td>
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<td>MUS 254 Advanced Musicianship I</td>
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<td>MUS 255 Advanced Musicianship II</td>
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<tr>
<td>MUS 359 Counterpoint</td>
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<tr>
<th>History (12 credits)</th>
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<tr>
<td>MUS 201 Intro to Music History I</td>
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<td>MUS 202 Intro to Music History II</td>
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<td>MUS 402 Music History Seminar I</td>
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<td>MUS 403 Music History Seminar II</td>
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<thead>
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<th>Conducting (2 credits)</th>
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<tr>
<td>MUS 340 Basic Conducting</td>
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**Keyboard Skills (4 credits)**

- MUS 109 Keyboard Lab I 1 credit
- MUS 110 Keyboard Lab II 1 credit
- MUS 209 Keyboard Lab III 1 credit
- MUS 210 Keyboard Lab IV 1 credit

**II. Study in the Area (43 Credits)**

**Large Ensemble Performance (8 credits)**

- MUS 182 Mercer Singers 1 credit
- MUS 183 Women’s Chamber Choir 1 credit
- MUS 191 Mercer University Wind Ensemble 1 credit
- MUS 192 Mercer University Orchestra 1 credit
- MUS 197 Mercer University Choir 1 credit

**Applied Music Courses (20 credits)**

- MUS 160 Voice (freshman year) 1 credit
- MUS 265-365-465 Voice 3 credits
- MUS 161 Piano (freshman year) 1 credit
- MUS 266-366-466 Piano 3 credits
- MUS 162 Organ (freshman year) 1 credit
- MUS 267-367-467 Organ 3 credits
- MUS 163 Orchestral and Band Instruments (freshman year) 1 credit
- MUS 268-368-468 Orchestral and Band Instruments 3 credits
- MUS 169 Harpsichord (freshman year) 1 credit
- MUS 269-369-469 Harpsichord 3 credits

**BM Area-Specific/Electives (15 credits)**

**Vocal BM**

- MUS 155 (a,b,c) Modern Language Diction (3 sections) 3 credits
- MUS 196 Opera Workshop (5 required) 5 credits
- MUS 317 Song Literature I: German 2 credits
- MUS 327 Song Literature II: French & English 2 credits
- MUS 438 Vocal Pedagogy 3 credits

*Vocal students are required to take either French or German for their language requirement.
Additionally, students are strongly encouraged to take at least one semester of German, French or Italian for singers.

**Instrumental BM (Woodwinds, Brass, Percussion, Guitar)**

- MUS 316 Literature of the Instrument 3 credits
- MUS 350 Orchestration 3 credits
- MUS 439 Pedagogy of Orchestral Instruments 3 credits
MUS Electives: 6 credits
MUS 152  Jazz Improvisation I
MUS 153  Jazz Improvisation II
MUS 180  Chamber Music Ensemble
MUS 181  Guitar Ensemble
MUS 184  Flute Choir
MUS 185  Jazz Ensemble
MUS 186  Brass Ensemble
MUS 187  Woodwind Ensemble
MUS 188  Percussion Ensemble
MUS 189  Jazz Combo
MUS 191  Mercer University Wind Ensemble
MUS 192  Mercer University Orchestra
MUS 342  Advanced Instrumental Conducting and Literature
MUS 480  Special Topics in Music

Instrumental BM (Strings)
MUS 180  Chamber Music Ensemble 4 credits
(four sections)
MUS 316  Literature of the Instrument 3 credits
MUS 439  Pedagogy of Orchestral Instruments 3 credits

MUS Electives: 5 credits
MUS 180  Chamber Music Ensemble
MUS 342  Advanced Instrumental Conducting and Literature
MUS 350  Orchestration
MUS 480  Special Topics in Music

Piano BM
MUS 121/122  Sight Reading Skills 2 credits
MUS 241/242  Collaborative I & II 2 credits
MUS 245  Piano Pedagogy I 1 credit
MUS 311  Piano Literature I 2 credits
MUS 312  Piano Literature II 1 credit

MUS Electives: 7 credits
MUS 155  Modern Language Diction
MUS 180  Chamber Music Ensemble
MUS 316  Literature of Orchestral Instruments
MUS 317  Song Literature I: German
MUS 327  Song Literature II: French & English
MUS 336  Advanced Collaborative Piano Skills I
MUS 337  Advanced Collaborative Piano Skills II
MUS 480  Special Topics in Music
**Organ/Harpsichord BM**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 139,140,213,214</td>
<td>Organ/Harpsichord Skills I, II, III, IV</td>
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<tr>
<td>MUS 313</td>
<td>Literature Organ/Harpsichord I</td>
<td>3</td>
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**MUS Electives:**

<table>
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<th>Course Name</th>
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<tbody>
<tr>
<td>MUS 180</td>
<td>Chamber Music Ensemble</td>
</tr>
<tr>
<td>MUS 316</td>
<td>Literature of Orchestral Instruments</td>
</tr>
<tr>
<td>MUS 317</td>
<td>Song Literature I: German</td>
</tr>
<tr>
<td>MUS 327</td>
<td>Song Literature II: French &amp; English</td>
</tr>
<tr>
<td>MUS 336</td>
<td>Advanced Collaborative Piano Skills I</td>
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<tr>
<td>MUS 337</td>
<td>Advanced Collaborative Piano Skills II</td>
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<tr>
<td>MUS 480</td>
<td>Special Topics in Music</td>
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**Music Elective Options**

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<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>MUS 152</td>
<td>Jazz Improvisation I</td>
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<tr>
<td>MUS 153</td>
<td>Jazz Improvisation II</td>
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<tr>
<td>MUS 155 (a,b,c)</td>
<td>Modern Language Diction</td>
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<tr>
<td>MUS 180</td>
<td>Chamber Music Ensemble</td>
<td>1</td>
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<tr>
<td>MUS 181</td>
<td>Guitar Ensemble</td>
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<tr>
<td>MUS 182</td>
<td>Mercer Singers</td>
<td>1</td>
</tr>
<tr>
<td>MUS 183</td>
<td>Women’s Chamber Choir</td>
<td>1</td>
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<tr>
<td>MUS 184</td>
<td>Flute Choir</td>
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<tr>
<td>MUS 185</td>
<td>Jazz Ensemble</td>
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<tr>
<td>MUS 186</td>
<td>Brass Ensemble</td>
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<tr>
<td>MUS 187</td>
<td>Woodwind Ensemble</td>
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<tr>
<td>MUS 188</td>
<td>Percussion Ensemble</td>
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<tr>
<td>MUS 189</td>
<td>Jazz Combo</td>
<td>1</td>
</tr>
<tr>
<td>MUS 191</td>
<td>Mercer University Wind Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUS 192</td>
<td>Mercer University Orchestra</td>
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<tr>
<td>MUS 196</td>
<td>Opera Workshop</td>
<td>1</td>
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<tr>
<td>MUS 197</td>
<td>Mercer University Choir</td>
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<tr>
<td>MUS 198</td>
<td>Collegium Musicum</td>
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<tr>
<td>MUS 221</td>
<td>Performance and Instruction Techniques: Woodwinds</td>
<td>2 credits</td>
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<tr>
<td>MUS 222</td>
<td>Performance and Instruction Techniques: Percussion</td>
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<tr>
<td>MUS 223</td>
<td>Performance and Instruction Techniques: Brass</td>
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<tr>
<td>MUS 224</td>
<td>Performance and Instruction Techniques: Stringed Instruments</td>
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<td>MUS 241</td>
<td>Collaborative Piano Skills I</td>
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<td>MUS 242</td>
<td>Collaborative Piano Skills II</td>
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<td>MUS 245</td>
<td>Piano Pedagogy I</td>
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<tr>
<td>MUS 311</td>
<td>Piano Literature I</td>
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</tr>
<tr>
<td>MUS 312</td>
<td>Piano Literature II</td>
<td>1</td>
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</tbody>
</table>
MUS 313  Literature and Materials for Organ/ Harpsichord  3 credits
MUS 315  Accompanying  3 credits
MUS 316  Literature of Orchestral Instruments  3 credits
MUS 317  Song Literature I: German  2 credits
MUS 327  Song Literature II: French & English  2 credits
MUS 336  Advanced Collaborative Piano Skills I  1 credit
MUS 337  Advanced Collaborative Piano Skills II  1 credit
MUS 341  Advanced Choral Conducting  2 credits
and Literature
MUS 342  Advanced Instrumental Conducting  2 credits
and Literature
MUS 350  Orchestration  3 credits
MUS 357  Music Technology  3 credits
MUS 438  Vocal Pedagogy  3 credits
MUS 439  Instrumental Pedagogy  3 credits
MUS 480  Special Topics in Music  1-3 credits

III. Non-Music Electives  (3-6 credits)

BACHELOR OF MUSIC EDUCATION

I. Studies in Music (71 credits)

Theory Skills (18 credits)
MUS 105  Music Theory I  3 credits
MUS 106  Music Theory II  3 credits
MUS 111  Basic Musicianship I  1 credit
MUS 112  Basic Musicianship II  1 credit
MUS 256  Music Theory III  4 credits
MUS 257  Music Theory IV  4 credits
MUS 254  Advanced Musicianship I  1 credit
MUS 255  Advanced Musicianship II  1 credit

History (12 credits)
MUS 201  Intro to Music History I  3 credits
MUS 202  Intro to Music History II  3 credits
MUS 402  Music History Seminar I  3 credits
MUS 403  Music History Seminar II  3 credits

Conducting (6 credits)
MUS 340  Basic Conducting  2 credits
MUS 341  Advanced Choral Conducting and Literature  2 credits
or
MUS 342  Advanced Instrumental Conducting and Literature  2 credits
MUS 474  Advanced Choral Methods  2 credits
or
MUS 475  Advanced Instrumental Methods  2 credits
### Keyboard Skills (4 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>MUS 109</td>
<td>Keyboard Lab I</td>
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<tr>
<td>MUS 110</td>
<td>Keyboard Lab II</td>
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<tr>
<td>MUS 209</td>
<td>Keyboard Lab III</td>
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<td>MUS 210</td>
<td>Keyboard Lab IV</td>
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### Large Ensemble Performance (7 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUS 182</td>
<td>Mercer Singers</td>
<td>1</td>
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<tr>
<td>MUS 183</td>
<td>Women's Chamber Choir</td>
<td>1</td>
</tr>
<tr>
<td>MUS 191</td>
<td>Wind Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUS 192</td>
<td>Mercer University Orchestra</td>
<td>1</td>
</tr>
<tr>
<td>MUS 197</td>
<td>Mercer University Choir</td>
<td>1</td>
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</table>

### Applied Music Courses (7 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUS 160-260-360-460</td>
<td>Voice</td>
<td>1</td>
</tr>
<tr>
<td>MUS 161-261-361-461</td>
<td>Piano</td>
<td>1</td>
</tr>
<tr>
<td>MUS 162-262-362-462</td>
<td>Organ</td>
<td>1</td>
</tr>
<tr>
<td>MUS 163-263-363-463</td>
<td>Orchestral and Band Instruments</td>
<td>1</td>
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<tr>
<td>MUS 169-269-369-469</td>
<td>Harpsichord</td>
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### Performance Techniques (17 credits)

<table>
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<tr>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUS 155 a</td>
<td>Modern Language Diction (and b or c required of voice students)</td>
<td>2</td>
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<tr>
<td>MUS 157</td>
<td>Vocal Techniques (required of instrumental students)</td>
<td>2</td>
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<tr>
<td>MUS 215</td>
<td>Sophomore Practicum I</td>
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<tr>
<td>MUS 216</td>
<td>Sophomore Practicum II</td>
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<tr>
<td>MUS 221</td>
<td>Performance and Instruction Techniques: Woodwinds</td>
<td>2</td>
</tr>
<tr>
<td>MUS 222</td>
<td>Performance and Instruction Techniques: Percussion</td>
<td>2</td>
</tr>
<tr>
<td>MUS 223</td>
<td>Performance and Instruction Techniques: Brass</td>
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</tr>
<tr>
<td>MUS 224</td>
<td>Performance and Instruction Techniques: Stringed Instruments</td>
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<tr>
<td>MUS 350</td>
<td>Orchestration</td>
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</tr>
<tr>
<td>MUS 370</td>
<td>The Elementary School Specialist</td>
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### II. Professional Education (24 Credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>EDUC 492</td>
<td>Student Teaching</td>
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<tr>
<td>EDUC 220</td>
<td>Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 256</td>
<td>Adolescent Health and Development</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 283</td>
<td>Fundamentals of Special Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 357</td>
<td>Psychology of Learning</td>
<td>3</td>
</tr>
</tbody>
</table>

### Education

For students who intend to teach music at either the elementary or secondary level, Mercer's program in Music Education (P-12) is approved by the State of Georgia, and accredited by the National Council for Accreditation of Teacher Education and National...
Association of Schools of Music. Prior to taking restricted courses in the professional education curriculum, students must be fully admitted to candidacy in teacher education through the Tift College of Education. The requirements include the following courses: EDUC/MUS 155 (a, b, or c) or 157, 193 or 194, 215, 216, 221, 222, 223, 224, 370, 474 or 475, as well as EDUC 220, 256, 283, 357, 492. Music Education majors must meet all the requirements for the Tift College of Education to be eligible for certification. These include the following: maintain a 2.75 GPA in education courses with no grade less than a C; pass the GACE II Examination, Music sections 111 and 112 with a minimum score of 220 on each section. The music student must take all of the courses in the Townsend School of Music General Education Program.

Additional Requirements

1. A minimum of 150 recitals must be attended in order to graduate.
2. A student must participate regularly in the Mercer Singers, Women's Chamber Choir, Mercer University Choir, Mercer University Orchestra, Mercer University Wind Ensemble, or some other regularly organized performing ensemble in the area of specialization designated by the Dean.
3. A senior recital is required. Students must research and write program notes for the recital.
4. All vocal, woodwind, brass, and percussion majors are required to enroll in MUS 193 or MUS 194, Lab Band or Lab Choir during the spring semester of their freshman year.

BACHELOR OF ARTS IN MUSIC

I. Musicianship (29 credits)

<table>
<thead>
<tr>
<th>Theory Skills (18 credits)</th>
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<tbody>
<tr>
<td>MUS 105  Music Theory I</td>
</tr>
<tr>
<td>MUS 106  Music Theory II</td>
</tr>
<tr>
<td>MUS 111  Basic Musicianship I</td>
</tr>
<tr>
<td>MUS 112  Basic Musicianship II</td>
</tr>
<tr>
<td>MUS 256  Music Theory III</td>
</tr>
<tr>
<td>MUS 257  Music Theory IV</td>
</tr>
<tr>
<td>MUS 254  Advanced Musicianship I</td>
</tr>
<tr>
<td>MUS 255  Advanced Musicianship II</td>
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</table>

<table>
<thead>
<tr>
<th>History (9 credits)</th>
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<tbody>
<tr>
<td>MUS 201  Intro to Music History I</td>
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<tr>
<td>MUS 202  Intro to Music History II</td>
</tr>
<tr>
<td>MUS 402  Music History Seminar I</td>
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<tr>
<td>or</td>
</tr>
<tr>
<td>MUS 403  Music History Seminar II</td>
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<table>
<thead>
<tr>
<th>Conducting (2 credits)</th>
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<tbody>
<tr>
<td>MUS 340  Basic Conducting</td>
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II. Performance and Electives (23 credits)

**Large Ensemble Performance (8 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 182</td>
<td>Mercer Singers</td>
<td>1</td>
</tr>
<tr>
<td>MUS 183</td>
<td>Women's Chamber Choir</td>
<td>1</td>
</tr>
<tr>
<td>MUS 191</td>
<td>Mercer University Wind Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUS 192</td>
<td>Mercer University Orchestra</td>
<td>1</td>
</tr>
<tr>
<td>MUS 197</td>
<td>Mercer University Choir</td>
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**Applied Music Courses (8 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUS 160-260-360-460</td>
<td>Voice</td>
<td>1</td>
</tr>
<tr>
<td>MUS 161-261-361-461</td>
<td>Piano</td>
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</tr>
<tr>
<td>MUS 162-262-362-462</td>
<td>Organ</td>
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</tr>
<tr>
<td>MUS 163-263-363-463</td>
<td>Orchestral and Band Instruments</td>
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</tr>
<tr>
<td>MUS 169-269-369-469</td>
<td>Harpsichord</td>
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**Keyboard Skills (4 credits)**

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<tbody>
<tr>
<td>MUS 109</td>
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<td>MUS 110</td>
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<tr>
<td>MUS 209</td>
<td>Keyboard Lab III</td>
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**Music Electives (3 credits)**

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<tr>
<td>MUS 152</td>
<td>Jazz Improvisation I</td>
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<td>MUS 153</td>
<td>Jazz Improvisation II</td>
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<td>MUS 155 (a,b,c)</td>
<td>Modern Language Diction</td>
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<td>MUS 180</td>
<td>Chamber Music Ensemble</td>
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<td>MUS 181</td>
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<td>Mercer Singers</td>
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<tr>
<td>MUS 183</td>
<td>Women's Chamber Choir</td>
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</tr>
<tr>
<td>MUS 184</td>
<td>Flute Choir</td>
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<td>MUS 185</td>
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<td>Woodwind Ensemble</td>
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<td>Percussion Ensemble</td>
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<td>MUS 189</td>
<td>Jazz Combo</td>
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<tr>
<td>MUS 191</td>
<td>Mercer University Wind Ensemble</td>
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<tr>
<td>MUS 192</td>
<td>Mercer University Orchestra</td>
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<tr>
<td>MUS 196</td>
<td>Opera Workshop</td>
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<td>MUS 197</td>
<td>Mercer University Choir</td>
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<tr>
<td>MUS 198</td>
<td>Collegium Musicum</td>
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<tr>
<td>MUS 221</td>
<td>Performance and Instruction</td>
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<td></td>
<td>Techniques: Woodwinds</td>
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<tr>
<td>MUS 222</td>
<td>Performance and Instruction</td>
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<tr>
<td></td>
<td>Techniques: Percussion</td>
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<tr>
<td>MUS 223</td>
<td>Performance and Instruction</td>
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<tr>
<td></td>
<td>Techniques: Brass</td>
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<tr>
<td>MUS 224</td>
<td>Performance and Instruction</td>
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<tr>
<td></td>
<td>Techniques: Stringed Instruments</td>
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<tr>
<td>Course Code</td>
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<tr>
<td>MUS 241</td>
<td>Collaborative Piano Skills I</td>
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<tr>
<td>MUS 242</td>
<td>Collaborative Piano Skills II</td>
<td>1 credit</td>
</tr>
<tr>
<td>MUS 245</td>
<td>Piano Pedagogy I</td>
<td>1 credit</td>
</tr>
<tr>
<td>MUS 311</td>
<td>Piano Literature I</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 312</td>
<td>Piano Literature II</td>
<td>1 credit</td>
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<tr>
<td>MUS 313</td>
<td>Literature and Materials for Organ/Harpsichord</td>
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<tr>
<td>MUS 316</td>
<td>Literature of Orchestral Instruments</td>
<td>3 credits</td>
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<tr>
<td>MUS 317</td>
<td>Song Literature I: German</td>
<td>2 credits</td>
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<tr>
<td>MUS 327</td>
<td>Song Literature II: French &amp; English</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 336</td>
<td>Advanced Collaborative Piano Skills I</td>
<td>1 credit</td>
</tr>
<tr>
<td>MUS 337</td>
<td>Advanced Collaborative Piano Skills II</td>
<td>1 credit</td>
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<tr>
<td>MUS 341</td>
<td>Advanced Choral Conducting and Literature</td>
<td>2 credits</td>
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<tr>
<td>MUS 342</td>
<td>Advanced Instrumental Conducting</td>
<td>2 credits</td>
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<tr>
<td>MUS 350</td>
<td>Orchestration</td>
<td>3 credits</td>
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<td>MUS 359</td>
<td>Counterpoint</td>
<td>3 credits</td>
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<tr>
<td>MUS 357</td>
<td>Music Technology</td>
<td>3 credits</td>
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<tr>
<td>MUS 438</td>
<td>Vocal Pedagogy</td>
<td>3 credits</td>
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<tr>
<td>MUS 439</td>
<td>Instrumental Pedagogy</td>
<td>3 credits</td>
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<tr>
<td>MUS 480</td>
<td>Special Topics in Music</td>
<td>1-3 credits</td>
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**General Education**

Music majors in the B.A. program will meet all the general education and additional depth requirements or choose a second major. In addition, all vocal, woodwind, brass, and percussion majors are required to enroll in MUS 193 or 194, Lab Band or Lab Choir, spring semester of their freshman year.

**UNDERGRADUATE MUSIC COURSES**

**MUS 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 open to music majors.

**MUS 105-106. Music Theory I-II**
(3 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. Requires permission of instructor to enroll. Must pass with a minimum grade of C in order to register in the next class in sequence. Open to music majors and minors only.

**MUS 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. Requires permission of
instructor to enroll. Must pass with a minimum grade of C in order to register in the next class in sequence. Open to music majors and minors only.

**MUS 111. Basic Musicianship I.**
(1 hour)
The cultivation of ear-training skills, including rhythmic, melodic, and harmonic dictation, and sight-singing in the context of diatonic, Common Practice Era tonality. Must pass with a minimum grade of C to register for the next class in the sequence. Open to music majors and minors only.

**MUS 112. Basic Musicianship II.**
(1 hour)
Prerequisites: A grade of C or higher in MUS 105, 111.
Continued practice of ear-training and sight-singing skills, with an increased focus on chromatic procedures in Common Practice Era tonality. Must pass with a minimum grade of C. Open to music majors and minors only.

**MUS 120. Introduction to Music Research and Writing**
(3 hours)
Prerequisite: INT 101 or GBK 101; or permission of instructor.
Co-requisite: WRT 120.
This class meets the criteria specified by the College of Liberal Arts Writing and General Education committees for a "discipline-specific first-year writing course," and is intended for prospective majors in music or other fine/performing arts. The primary goals of this course are: (a) to provide introduce students to the ways musicians and artists write and think about their work; and (b) to provide a basic foundation in research and communication skills necessary for advanced study in music.

**MUS 121. Sightreading Skills I**
(1 hour)
This course will be required of all BA and BM Freshman Piano majors. Students will take this course the first year of study in order to help improve sight reading and functional piano skills. Focus will be on open score reading, vocal and instrumental accompanimental study, chamber music literature study, and sight reading of piano literature in general.

**MUS 122. Sightreading Skills II**
(1 hour)
Prerequisite: MUS 121
This course continues the development of keyboard skills from MUS. 121. To be taken concurrently with MUS 106a by students whose applied area is piano.

**MUS 139. Organ/Harpsichord Skills I**
(1 hour)
This course concentrates on non-cantus firmus based and continuo improvisational skills. To be taken concurrently with 105 by students whose applied area is organ/harpsichord.

**MUS 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 106 by students whose applied area is organ/harpsichord.

**MUS 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 open to music majors.

**MUS 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.

MUS 155a. Vocal Diction I (1 hour)
Introduction to the diction of English and Italian. Pronunciation taught will be based on the International Phonetic Alphabet.

MUS 155b. Vocal Diction II (1 hour)
Introduction to the diction of German. Pronunciation taught will be based on the International Phonetic Alphabet.

MUS 155c. Vocal Diction III (1 hour)
Introduction to the diction of French. Pronunciation taught will be based on the International Phonetic Alphabet.

MUS 157. Vocal Techniques (2 hours)
(Same as EDUC 157)
Development of individual performance skills in voice. Instruction will broaden pedagogical understanding and provide group vocal techniques and methods for elementary and secondary school music teachers and for students interested in improving their individual singing voice. Survey and evaluation of materials related to vocal development. Open only to music majors and music minors.

MUS 201. Introduction to Music History I: Music Before 1850 (3 hours)
Prerequisite: a Grade of C or higher in MUS 106 or permission of instructor.
This class represents the first of a two-semester survey sequence designed to establish a conceptual vocabulary and historical framework for appreciating musical innovation and change. Intended primarily for music majors/minors and emphasizing aural skills, the course will focus on the manifestations of music's relationship with the sacred and the tension between “high art” and “folk art” as they shaped the idea of a Classical canon prior to the mid-nineteenth century. Students must pass with at least a C to register for MUS 202 Introduction to Music History II: Music After 1850.

MUS 202. Introduction to Music History II: Music After 1850 (3 hours)
Prerequisite: a grade of C or higher in MUS 201.
This class is the second half of the two-semester introductory historical survey and is intended primarily for music major/minors. The course will examine the ways that Western classical music has been influenced by its changing relationships with popular art, globalization, and technology in the late nineteenth through twenty-first centuries. Students must pass with at least a C to register for MUS 402 or MUS 403.

MUS 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. Requires permission of instructor to enroll. Must pass with a minimum grade of C in order to register in the next class in sequence. Open to music majors and minors only.

MUS 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.
MUS 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.

MUS 215. Sophomore Practicum I (1 hour)
(Same as EDUC 215)
Sophomore Practicum I will meet each spring semester on a TBA schedule. Each student enrolled will be assigned to various elementary schools in the region for 1-2 hours weekly. At these schools the student will observe the cooperating teacher and engage in minor teaching as appropriate for the situation and experience level of the student. A portfolio of each observation/teaching experience will be maintained for each school visit.

MUS 216. Sophomore Practicum II (1 hour)
(Same as EDUC 216)
Sophomore Practicum II will meet each fall semester on a TBA schedule. Each student enrolled will be assigned to various secondary schools (vocal and instrumental) in the region for 1-2 hours weekly. At these schools the student will observe the cooperating teacher and engage in minor teaching as appropriate for the situation and experience level of the student. A portfolio of each observation/teaching experience will be maintained for each school visit.

MUS 221. Performance and Instruction Techniques: Woodwind (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.

MUS 222. Performance and Instruction Techniques: Percussion (2 hours)
(Same as EDUC 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.

MUS 223. Performance and Instruction Techniques: Brass (2 hours)
(Same as EDUC 223)
Development of personal performance skills on cornet or trumpet, horn, trombone, euphonium, and tuba. Instruction in methods and techniques for elementary and secondary school music teachers. Survey and evaluation of materials and equipment.

MUS 224. Performance and Instruction Techniques: String (2 hours)
(Same as EDUC 224)
Development of personal performance skills on violin, viola, violoncello, and double bass. Instruction in methods and techniques for elementary and secondary school music teachers. Survey and evaluation of materials and equipment.

MUS 241. Collaborative Piano Skills I (1 hour)
This course will be required of all Sophomore Piano majors. Focus will be on the study of technical and artistic skills required as a collaborative pianist. Practical participation and
performance of standard vocal and instrumental literature will be required. Non majors may audition to register for the class.

MUS 242. Collaborative Piano Skills II  
Prerequisite: MUS 241  
This course continues the development of keyboard skills from MUS 241. To be taken concurrently with MUS 256 by students whose applied area is piano. Focus will be on the study of technical and artistic skills required of a collaborative pianist. Practical participation and performance of vocal literature and instrumental literature will be required with particular emphasis given to German lieder and French mélodie.

MUS 245. Piano Pedagogy I  
Prerequisite: MUS 245  
This course focuses on elementary pedagogical skills for the Piano major. Practical participation is required.

MUS 246. Piano Pedagogy II  
Prerequisite: MUS 245  
This course continues the development of pedagogical skills for the Piano major. Practical participation is required.

MUS 254-255. Advanced Musicianship Skills I-II  
Prerequisite: MUS 106, 112.  
Review of musicianship skills including sight-singing, rhythmic dictation, melodic dictation, and harmonic dictation in the context of tonal music. Must pass with a minimum grade of C to register for the next class in the sequence. Open to music majors and minors only.

MUS 256-257. Music Theory III-IV  
Prerequisite: MUS 106, 112.  
A detailed examination of advanced chromatic procedures used in the late 19th century, and an investigation of complex musical forms including Sonata form, Rondo, and theme and variations; in the second semester, the exclusive focus of the class will be 20th century procedures including atonal and polytonal music, partially and fully serialized composition, minimalism, and advanced rhythmic procedures. Must pass with a minimum grade of C to register for the next class in the sequence. Open to music majors and minors only, or with special permission of the instructor.

MUS 258-259. Beginning Composition  
Prerequisite: MUS 106 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.

MUS 311. Piano Literature I  
This course will be an in-depth survey of keyboard literature from the fourteenth-century through the mid-nineteenth century. Primary focus will be from the late Baroque works through the mid-Romantic masterworks.

MUS 312. Piano Literature II  
This course will be an in-depth survey of piano literature from the late Romantic through the twentieth-century. Primary focus will be on those works which have become staples of the repertoire as well as various twentieth-century schools of composition.

MUS 313. Literature and Materials for Organ/Harpsichord  
This course focuses on keyboard literature from its beginning to the organ literature of the present.
MUS 316. Literature of the Instrument (3 hours)
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.

MUS 317. Song Literature I (2 hours)
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.

MUS 327. Song Literature II (2 hours)
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.

MUS 336. Advanced Collaborative Piano Skills I (1 hour)
This course continues the development of the art of accompanying. Focus on the study of advanced literature will include such works as Schubert song cycles, woodwind and string sonatas, operatic aria orchestral reductions, Baroque continuo and recitative. Practical participation and performance of assigned literature will be required.

MUS 337. Advanced Collaborative Piano Skills II (1 hour)
This course continues the development of study in MUS 336. Practical participation and performance of assigned literature will be required.

MUS 340. Basic Conducting (2 hours)
Prerequisites: MUS 106.
A study of the basic techniques of conducting a musical ensemble. Two class sessions plus a one-hour practicum each week.

MUS 341. Advanced Choral Conducting and Literature (2 hours)
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.

MUS 342. Advanced Instrumental Conducting and Literature (2 hours)
Prerequisites: MUS 255, 257, and 340.
Analysis of wind ensemble literature of various styles and periods to determine interpretive dimensions; proper rehearsal and baton techniques will be emphasized. Two 75 minute class sessions each week.

MUS 350. Orchestration (3 hours)
Prerequisites: MUS 255 and 257, or permission of the instructor. It is also recommended that the student have several years of successful experience in vocal, band or orchestra performance; in lieu of this, MUS 157, 221, 222, 223, 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 and voices. Performance of class work when practical.

MUS 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 school's computer music lab.

**MUS 359. Counterpoint (3 hours)**
Prerequisite: MUS 255 and 257, or permission of instructor.
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.

**MUS 370. The Elementary School Music Specialist (2 hours)**
(Same as 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.

**MUS 402. Music History Seminar I: American Music (3 hours)**
Prerequisites: MUS 201, 202.
Seminar in Romantic and Post-Romantic Music. Intended for upper-level music majors, this class will explore stylistic and historical developments of the 19th century and their implications for composition within Romantic and post-Romantic musical idioms. Significant attention will be given to the selection and use of primary historical sources, and the articulation of historical argument through writing. Students must earn a minimum grade of C.

**MUS 403. Music History Seminar II: Topics in Baroque History and Performance (3 hours)**
Prerequisites: MUS 201, 202.
Intended for upper-level music majors, this class will explore the variety of compositional practices and philosophical orientations that have characterized Western classical musical practice post-World War I. Significant attention will be given to the selection and use of primary historical sources, and the articulation of historical argument through writing. Students must earn a minimum grade of C.

**MUS 438. Vocal Pedagogy (3 hours)**
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.

**MUS 439. Pedagogy of Orchestral Instruments (3 hours)**
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.

**MUS 474. Advanced Choral Methods (2 hours)**
(Same 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. Intended for music education majors, vocal emphasis.

**MUS 475. Advanced Instrumental Methods (2 hours)**
(Same as EDUC 475)
This course deals with the organization of public school bands and orchestras, organization and administration of the successful marching band program, rehearsal, techniques, instru-
MUS 479. Music Business  
(Same as BUS 477)  
(3 hours)  
The Music Business course will provide an overview of the aspects and career possibilities in arts administration. The topics covered will be geared toward music performance, but many of the areas covered apply to all of the performing and visual arts. Areas such as marketing, publicity, web site development, and performance contract negotiation will be examined in the course. The business aspects of a career in music performance and administration require a unique study and approach. This course is meant to act as a framework for studying and exploring those unique aspects.

MUS 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 that is not otherwise covered in the Townsend School of Music course offerings. The class carries variable course credit (1 to 3 hours) dependent on the proposed course, and may be repeated with a different topic. Courses are created, approved and assigned course credit in the following manner:

The professor and student create a proposal for the special topics class using the Special Topics Form located in the music office.

The completed form is submitted to the Director of Undergraduate Studies at least one semester in advance.

The Director of Undergraduate Studies will submit the proposal to the Dean for review. If approved, the Director of Undergraduate Studies will assign the credit hours of the special topics course and create the subtitle of the course.

Applied Music Courses

The following applied music courses are open to music majors as well as non-music majors (based upon availability of instructor and permission of the Dean of the Townsend School of Music). Applied music courses will earn one credit for students majoring in the Bachelor of Arts, Bachelor of Music Education, and Bachelor of Music degrees (freshman year only) and non-majors. Bachelor of Music majors in the sophomore, junior, and senior years will earn three credits per semester. One hour of academic credit is earned for one sixty-minute lesson each week during the semester for music majors; one hour of academic credit is earned for one thirty-minute lesson each week during the semester for non-music majors; three hours of academic credit are earned for one sixty-minute lesson each week during the semester for Bachelor of Music majors during their sophomore, junior and senior years. Students who enroll in these courses are charged an applied music fee; the fee is assessed at fifteen 60-minute lessons.

MUS 160-260-360-460. Voice  
(1 hour)  
Prerequisite: permission of instructor.
Voice majors register for 1 hour credit. In addition to their private lessons, students may be required to attend a one-hour class session each week. Students must earn 2 hours in each number before moving to the next higher number.
MUS 161-261-361-461. Piano (1 hour)
Piano majors register for 1 hour credit. Students must earn 2 hours in each number before moving to the next higher number.

MUS 162-262-362-462. Organ (1 hour)
Prerequisite: pianistic ability satisfactory to instructor.
Organ majors register for 1 hour credit. Students must earn 2 hours in each number before moving to the next higher number.

MUS 163-263-363-463. Orchestra and Band Instruments (1 hour)
Instrumental majors register for 1 hour credit. Students must earn 2 hours in each number before moving to the next higher number.

MUS 164-264-364-464. Composition (1 hour)
Prerequisite: 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 2 hours in each number before moving to the next higher number.

MUS 169-269-369-469. Harpsichord (1 hour)
Harpsichord majors register for 1 hour credit. Students must earn 2 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 beginning in their sophomore year of study. 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 3 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.

MUS 265-365-465. Voice (3 hours)
Prerequisite: admission to one of the Bachelor of Music programs.
Credit: 60-minute lesson per week, 3 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 6 hours in each number before moving to the next higher number.

MUS 266-366-466. Piano (3 hours)
Prerequisite: admission to one of the Bachelor of Music programs.
Credit: Same as MUS 265. Students must earn 6 hours in each number before moving to the next higher number.

MUS 267-367-467. Organ (3 hours)
Prerequisite: admission to one of the Bachelor of Music programs.
Credit: Same as MUS 265. Students must earn 6 hours in each number before moving to the next higher number.
MUS 268-368-468. Orchestra and Band Instruments (3 hours)
Prerequisite: admission to one of the Bachelor of Music programs.
Credit: Same as MUS 265. Students must earn 6 hours in each number before moving to the next higher number.

MUS 271-371-471. Harpsichord (3 hours)
Prerequisite: admission to one of the Bachelor of Music programs.
Credit: Same as MUS 265. Students must earn 6 hours in each number before moving to the next higher number.

Center for Strings

MUS 16CW. Violin (1 hour)
MUS 16CX. Viola (1 hour)
MUS 16CY. Cello (1 hour)
MUS 16CZ. Bass (1 hour)
MUS 26CW-36CW-46CW. Violin (3 hours)
MUS 26CX-36CX-46CX. Viola (3 hours)
MUS 26CY-36CY-46CY. Cello (3 hours)
MUS 26CZ-36CZ-46CZ. Bass (3 hours)

Performing Ensembles

MUS 180. Chamber Music Ensemble (1 hour)
Prerequisite: permission of the instructor.
Chamber Music is a 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.

MUS 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.

MUS 182. Mercer Singers (1 hour)
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.

MUS 183. Women's Chamber Choir (1 hour)
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. An audition is required.
MUS 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 twenty-first century. The primary focus is to explore the musical literature for an ensemble of flutes. Open to all students. An audition/interview is required.

MUS 185. Jazz Ensemble (1 hour)
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.

MUS 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 twenty-first 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.

MUS 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 twenty-first 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.

MUS 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 twenty-first 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.

MUS 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 semester 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.

MUS 191. Mercer University Wind Ensemble (1 hour)
This organization of wind and percussion musicians perform music composed for full band as well as various chamber ensembles. Due to its flexible instrumentation, the ensemble performs a wide range of repertoire from the Renaissance to the present. 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.

MUS 192. Mercer University Orchestra (1 hour)
The Mercer Orchestra is a high quality chamber orchestra which rehearses on a regular schedule and performs at least twice a semester. The repertoire is chosen from standard orchestral literature and includes student, faculty and guest artists and conductors. Open to all students. An audition/interview is required.
MUS 193. Lab Band (0 hour)
Lab Band will meet spring semester biannually for one hour each week within the meeting time of MUS 342, Advanced Instrumental Conducting. All freshman wind and percussion majors will be required to participate in Lab Band. The lab band will serve as a rehearsal techniques ensemble for the student conductors enrolled in MUS 342. Non music majors could enroll with permission of the instructor only.

MUS 194. Lab Choir (0 hour)
Lab Choir will meet spring semester biannually for one hour each week within the meeting time of MUS 341 Advanced Choral Conducting. All freshman voice majors would be required to participate in lab choir. The Lab Choir will serve as a rehearsal techniques ensemble for the students enrolled in MUS 341. Non music majors could enroll with permission of the instructor only.

MUS 196. Mercer University Opera (1 hour)
Prerequisite: 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.

MUS 197. 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.

MUS 198. Collegium Musicum (1 hour)
Prerequisite: Audition required
Collegium Musicum is a course designed to explore and perform music from the Middle Ages and Renaissance. The primary purpose is to explore beautiful repertoire not often heard on the concert stage, and gain experience performing in small groups. Open to all students.

Credit Limitation: All credit hours earned in MUS 180 through MUS 198 will appear on the student’s transcript but no more than eight such credits will count toward the hours required to graduate.
Graduate Studies

Mercer University is committed to providing graduate degree programs, as well as undergraduate and professional education. Mercer offers programs leading to numerous graduate degrees including:

Stetson School of Business and Economics (specific programs offered in Macon, Atlanta, Savannah, and/or Henry County)
- Master of Business Administration
- Executive Master of Business Administration
- Professional Master of Business Administration
- Master of Accountancy

School of Engineering (specific programs in Macon or through distance learning)
- Master of Science
- Master of Science in Engineering

Tift College of Education (specific programs offered in various locations including Macon, Atlanta, Savannah, or Regional Academic Centers)
- Master of Education
- Master of Arts in Teaching
- Specialist in Education
- Doctor of Philosophy in Educational Leadership
- Doctor of Philosophy in Curriculum and Instruction

Townsend School of Music (Macon)
- Master of Music (Conducting, Performance, Church Music)

College of Continuing and Professional Studies (Atlanta and Henry County)
- Master of Science in Clinical Mental Health Counseling
- Master of Science in School Counseling
- Master of Science in Public Safety Leadership
- Master of Science in Rehabilitation Counseling
- Master of Science in Organizational Leadership
- Master of Science in Human Services
- Educational Specialist in School Counseling
- Master of Science in Clinical Mental Health Counseling/Master of Divinity in Pastoral Counseling
- Master of Science in Organizational Leadership/Master of Divinity in Leadership for the Nonprofit Organization
- Doctor of Philosophy in Counselor Education and Supervision

Georgia Baptist College of Nursing (Atlanta)
- Master of Science in Nursing
- Doctor of Philosophy in Nursing
- Doctor of Nursing Practice

College of Pharmacy (Atlanta)
- Doctor of Pharmacy
- Doctor of Philosophy in Pharmaceutical Sciences

College of Health Professions (Atlanta and Macon)
- Master of Medical Science (Physician Assistant)
- Master of Public Health
- Doctor of Physical Therapy
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 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 a record of secondary schooling that shows the dates attended, grades achieved or examinations passed, and the student's 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 80 IBT (internet based TOEFL), 213 CBT (computer based TOEFL), or 550 PBT (paper based TOEFL) or IELTS score of 6.5 or above 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 on the Atlanta campus in specific skill areas.

2. Qualified students who present a TOEFL score below 80 IBT (internet based TOEFL), 213 CBT (computer based TOEFL), or 550 PBT (paper based TOEFL) or IELTS score of 6.5 or have no TOEFL score may be admitted conditionally, contingent upon their successful completion of the Mercer University English Language Institute (MUELI). With the permission of the student's academic advisor, an ELI student 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 a minimum of 75 percent of the credit hours required for conferral of the degree in residence at Mercer.

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 it 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; and (6) the courses have not been applied for credit to a degree previously earned. (Exception: Up to 9 hours earned as part of an Ed.S. degree in Educational Leadership may be considered for application towards the Ph.D. in Educational Leadership.)

If a student wishes to transfer credits earned at a foreign institution to his/her record at Mercer, the student must supply the Registrar's Office with an official copy (still sealed in the original envelope) of a credit evaluation from a reputable U.S. evaluation service; the evaluation should include all of the credits that the student wishes to transfer to Mercer. Once the Registrar's Office receives an official evaluation, the student's foreign credits will be reviewed to see if they are eligible for transfer to the student's Mercer degree. Please note that the registrar makes the final decision when accepting credits from a foreign institution.

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, the Townsend School of Music, the College of Continuing and Professional Studies, the Doctor of Philosophy Program in the College of Pharmacy, and the Master of Public Health Program in the College of Health Professions will be considered "full-time" for purposes of attendance and eligibility for financial aid, if they are enrolled for 9 credit hours in a semester (fall, spring, summer). Veterans should contact the U.S. Department of Veterans Affairs for the credit hour requirements for VA benefits and consult with the University's Office of the Registrar for VA certification.

In the School of Medicine, students in the Master in Family Therapy program are considered full-time if they are enrolled for 6 credit hours per semester in particular years of the program.

Full-time status in other graduate programs is outlined in the corresponding catalogs. Full-time status does not fall below 6 credit hours per semester for any graduate program.

Graduate Level Courses

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; credit does not apply toward degree
600-699: Master of Education level classes
700-799: Education Specialist level classes
800-899: Doctoral level classes
Courses are generally 3 credit hours each.
Townsend School of Music
500-599: Graduate level offerings in Applied and ensemble Areas
600-699: Master of Music course offerings

College of Continuing and Professional Studies
600-999: Master of Science and doctoral level classes

Georgia Baptist College of Nursing
600-699: Master of Science level classes

College of Pharmacy
300-399: 1st Year Pharm.D.
400-499: 2nd Year Pharm.D.
500-599: 3rd Year Pharm.D.
600-699: 4th Year Pharm.D.; MBA
800-899: Ph.D. Program

College of Health Professions
500-599: PA Program; 1st Year DPT
600-699: PA Program; MPH Program; 2nd Year DPT
700-799: MPH Program

School of Medicine
600-699: Graduate courses designed for graduate students only
Courses are generally 3 semester credit hours each.

McAfee School of Theology
500-999: Master of Arts
         Master of Divinity
         Doctor of Divinity

Academic Standards
To maintain good standing in progress toward a degree, a graduate student must achieve a cumulative grade point average of at least 3.0 (B). 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. For professional degree students, the minimum grade point average for good standing is 2.0. Individual programs may set a higher g.p.a. standard.

An Incomplete (IC) grade may be given to a student passing a course, but due to illness or other compelling reason satisfactory to the instructor, a relatively small amount of work remains. The Absent from Exam (ABX) grade may be given if a student misses only the final exam due to illness or other compelling reason satisfactory to the instructor. Work must be completed within one academic year according to the specific policies of the college/school or a grade of F will be assigned. Refer to each college/school section for policy regarding warning, probation, and suspension or dismissal.

Auditing Classes
Graduate students may audit a class with permission of the instructor. See Class Auditing Regulations in the Academic Information section of the catalog for regulations regarding auditing. Please refer to the Financial Information section of the catalog for cost.

Application for Degree
A student who expects to qualify for a degree must apply for the degree through the Office of the Registrar by the date specified in the University Calendar.
Thesis and Dissertation Requirements

Some master’s degree programs and the Doctor of Divinity program require, or provide an option, that each degree candidate 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 directors, 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, a thesis or dissertation should be submitted to the Provost of the University, 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 rights 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 an honor system. The Graduate Honor System is governed by policies 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 administered by an honor committee composed of five members of the graduate faculty who are responsible for decisions regarding alleged violations. The committee’s decisions are binding on the student involved but may be appealed to the chief academic officer of the University.
Eugene W. Stetson School of Business and Economics

Graduate Faculty

Susan P. Gilbert, Dean/Professor
Linda L. Brennan, Ph.D., Associate Dean/Professor
J. Michael Weber, Ph.D., Associate Dean/Professor
Steven R. McClung, Ph.D., Associate Dean/Associate Professor
Walter W. Austin, Jordan M. Blanke, Tammy N. Crutchfield, James L. Hunt, Gina L. Miller,
Arthur L. Rutledge, Faye A. Sisk, Lloyd J. F. Southern, Vijaya Subrahmanyam, Roger C.
Tutterow, Charles H. Andrews (Emeritus), G. Russell Barber, Jr. (Emeritus), William Carl
Joiner (Emeritus), M. B. Neace (Emeritus), and Austin C. Schlenker (Emeritus),
Professors
J. Simon, Associate Professors
Carol J. Cagle, Elizabeth Chapman, Kimberly A. Freeman, Kathy D. Mack, Catherine
“Anitha” Manohar, Geoffrey Ngene, Julie A. Petherbridge, Lin Zheng, and William V.
Luckie, Jr. (Emeritus), Assistant Professors
C. Gerry Mills, Stephanie B. Morris, and J. Allen Rubenfield, Lecturers

Graduate Programs

The Eugene W. Stetson School of Business and Economics (SSBE) offers the MBA degree through the Master of Business Administration (MBA), Executive Master of Business Administration (EMBA), Professional Master of Business Administration (PMBA), and the Master of Accounting (MAcc).

The Master of Business Administration degree is offered on the Macon Campus. The degree is offered on the Cecil B. Day Campus in Atlanta through the MBA and EMBA programs, and in the Metro-Atlanta area, Savannah, and Macon through the virtual PMBA program. In Atlanta, joint degree tracks are offered in the Doctor of Pharmacy and the MBA, and in the Master of Divinity and the MBA. In Macon, a dual MBA - J.D. degree is offered in conjunction with the Walter F. George School of Law. The Master of Accountancy and a MBA/MAcc dual degree are offered on the Atlanta campus.

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 lectures, case analysis, project work, and seminars. Each method is used to accomplish the goals of a specific course 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 prior to admission.

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:
   A. General Standards for Admissions
      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 Catalog 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, and/or Mercer/Atlanta, Institutional Code #5025. A the GRE score may be offered as a substitute to the GMAT. Only GMAT and GRE scores within the five years prior to admission will be accepted. Individuals with advanced degrees are exempt from this entry requirement.

   B. Guaranteed Admission to the MBA Program
      Guaranteed Admission Plus Degree (GAPD) Program for the Flexible Master of Business Administration (MBA) or One-Year Day Master of Business Administration (MBA) or the Master of Accountancy (MAcc) or the Dual MBA/MAcc.
      1. Guaranteed Admission Plus Degree (GAPD) Program for BBAs may be granted to students completing a Bachelor of Business Administration (BBA) degree at Mercer University within two years of the completion of the BBA degree. To be considered for guaranteed admission, a student must meet the following the conditions outlined below:
         a. All BBA degree requirements have been met and a minimum of 30 semester hours of undergraduate coursework must be completed at SSBE and 32 semester hours at Mercer.
b. An overall grade point average of 3.0 (including transferred hours), overall grade point average of 3.0 at Mercer, a 3.0 grade point average in all business core curriculum courses, and a 3.0 grade point average in all business core curriculum courses at Mercer must be maintained.

c. Earned a minimum grade of C in all business course work at Mercer.

2. Guaranteed Admission Plus Degree (GAPD) Program for Non-BBAs (Macon Only) may be granted to Macon students completing a non-business undergraduate degree at Mercer University, within two years of degree completion. To be considered for guaranteed admission, a non-business Macon student must meet the following the conditions outlined below:

a. Undergraduate degree requirements have been met with at least 32 semester hours at Mercer.

b. Completed a minimum of statistics and pre-calculus, including at least STA 126 and one of the following: Mat 130 or Mat 133.

c. An overall grade point average of 3.0 (including transfer hours), overall grade point average of 3.0 at Mercer, a 3.0 grade point average in all business core curriculum courses (if applicable), and a 3.0 grade point average in all major courses at Mercer must be maintained.

d. Earned a minimum grade of C in all business, math, and major course work at Mercer.

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 80 IBT (internet based TOEFL), 213 CBT (computer based TOEFL), or 550 PBT (paper based TOEFL) or IELTS score of 6.5 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. Graduate assistantships, grants, and financial aid are not 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. Transfer courses must be taken at schools that are accredited by the Association to Advance Collegiate Schools of Business (AACSB International). 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, PMBA, or EMBA.

   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 Catalog, 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 Director of Graduate Studies. Transient courses must be taken at schools that are accredited by The Association to Advance Collegiate Schools of Business (AACSB International). Course equivalencies must be approved in advance.
9. **Readmission:**
   A student who withdraws from the school while on academic warning or probation, or who has not completed a course in two calendar years 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 two calendar years or more since a course has been completed, the student must reenter under the catalog 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 Catalog 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 Master of Business Administration Test.
    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.

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 at the discretion of the Director.

**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 cumulative grade point average is an indication of a student's academic performance. Any student whose semester and/or cumulative grade point average is below 3.0 is considered to be 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 Director of Graduate Studies 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 Director of Graduate Studies. 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 stu-
dent 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, must not have 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**

To be considered for admission to the Master of Business Administration program of the Stetson School of Business and Economics, students must demonstrate proficiency in designated foundation areas. There are two general means by which this can be accomplished. The first path requires the successful completion of a diverse set of foundations courses at the undergraduate level. These courses may be taken at any approved College or University. The second path requires successful completion of four graduate level foundations courses, offered online, through the Stetson School of Business and Economics.

**Undergraduate Foundations Path**

1. STA 126: Elementary Statistical Methods (This requirement is waived with 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.
2. ECN 150: Principles of Microeconomics (This requirement is waived with an approved undergraduate course with a grade of C or better.)
3. FIN 362: Principles of Finance (This requirement is waived with 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.

4. An additional 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.

5. Working knowledge of spreadsheet, word-processing, and presentation software.

Graduate Foundations Path

1. BAA 505: Micro and Macro Economics. This course provides students with detailed foundations knowledge in the areas of micro and macro economics. (3 hours)

2. BAA 510: Accounting and Finance. This course provides students with detailed foundations knowledge in the areas of accounting and finance. (3 hours)

3. BAA 515: Management and Marketing. This course provides students with detailed foundations knowledge in the areas of management and marketing. (3 hours)

4. BAM 530: Business Statistics. This course provides students with core knowledge in the area of statistics and quantitative methods. (3 hours)

Additional Notes

Students may find themselves with some, but not all, of the required undergraduate foundations courses described in the “Undergraduate Foundations Path.” In such instances, students may substitute a subset of the foundations courses listed in the “Graduate Foundations Path” to complete the requirements of the “Undergraduate Foundations Path.” In other words, students may combine undergraduate courses (often transferred from other schools) with graduate level foundations courses in order to meet the foundations requirements. Students interested in combining undergraduate and graduate level courses to meet foundations requirements must receive prior approval from the Office of the Associate Dean prior to completing foundations courses.

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 (or BA 613. Studies Abroad)
BAM 610. Managers and the Legal and Government Environment of Business
BAM 612. Corporate Financial Management
BAM 614. Accounting for Control
BAM 616. Management and Leadership
BAM 618. Business Ethics
BAM 620. Strategic Marketing
BAM 622. Applied Data Analysis
BAM 699. MBA Capstone
DUAL MASTER OF BUSINESS/LAW DEGREE PROGRAM

The Eugene W. Stetson School of Business and Economics and the Walter F. George School of Law of Mercer University offer a dual program of study that permits both the MBA and J.D. degrees to be earned in three academic years. The MBA degree is earned through the Stetson School of Business and Economics, normally by taking courses on the Macon campus. Law coursework must be done at Mercer's Walter F. George School of Law.

On the law school application, an applicant to the program must indicate his/her intent to also apply to the Stetson School of Business and Economics. Both schools will share the information in the application, including required standardized test scores. The applicant must be admitted separately by each school. No person will be admitted to the law school merely because he or she has been admitted to the regular MBA program, and no person will be admitted to the MBA program merely because he or she has been admitted to the law school.

Shown below is a sample of a course of study that would permit a student to complete the dual J.D./MBA degree course requirements in three years. This is only a sample and is not intended as the only path to completion of the dual degree program. Instead, the deans of the law school and the Stetson School of Business and Economics (or their respective designates) are expected to work with students to develop and approve alternative programs of study and courses for those students who choose not to follow this sample. Any alternative course of study must adhere to law school and Stetson School of Business and Economics requirements, as modified by the requirements for the dual degree program. In the sample, the MBA core program is reduced to 30 semester hours.

First Year, Fall Semester
Law 100: Intro to Law
Law 103: Intro to Legal Research
Law 107: Contracts
Law 110: Criminal Law
Law 111: Legal Analysis
Law 116: Property Law
Law 119: Torts
Total Law Credits = 17 / Total Business Credits = 0

First Year, Spring Semester
Law 103: Intro to Legal Research
Law 149: The Legal Profession
Law 150: American Constitutional System
Law 151: Jurisdiction and Judgments
Law 152: Legal Writing I
Law 153: Sales
Total Law Credits = 17 / Total Business Credits = 0

First Year, Summer Semester
Clerk or
ECN 150; MAT 126; and/or FIN 362 (prerequisites if not taken as an undergraduate)
Total Law Credits = 0 / Total Business Credits = 0
<table>
<thead>
<tr>
<th>Semester</th>
<th>Law Courses</th>
<th>Business Courses</th>
<th>Total Law Credits</th>
<th>Total Business Credits</th>
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</thead>
</table>
| **Second Year, Fall Semester** | Law 154: Statutory Law and Analysis  
Law 200: Intro to Counseling  
Law 202: Federal Income Tax  
Law 203: Civil Lawsuits  
Law 207: Legal Writing II  
BAM 602: Financial Reporting and Analysis  
BAM 606: Applied Microeconomic Analysis |                                               | 11                            | 6                        |
| **Second Year, Spring Semester** | Law 206: Evidence  
Perspectives Block  
Administrative Block  
Two hours of law electives  
BAM 614: Accounting for Control  
BAM 620: Strategic Marketing |                                               | 11                            | 6                        |
| **Second Year, Summer Semester** | Clerk and  
BAM 610: Managers and the Legal Environment of Business (waived for Law 107)  
BAM 612: Corporate Financial Management (Macon or Atlanta) |                                               | 0                            | 3                        |
| **Third Year, Fall Semester** | Law 300: Intro to Dispute Resolution  
Law 302: Law of Lawyering  
Seminar  
Five hours of law electives  
BAM 616: Management and Leadership  
BAM 604: Operations Management |                                               | 11                            | 6                        |
| **Third Year, Spring Semester** | Law 542: Remedies  
Advanced Skills  
Seven hours of electives  
BAM 618: Business Ethics (waived for Law 149)  
BAM 622: Applied Data Analysis |                                               | 12                            | 3                        |
| **Third Year, Summer Semester** | BAM 608: Global Macroeconomic Environment (or approved substitute in Atlanta)  
BAM 699: MBA Capstone |                                               | 0                            | 6                        |
MASTER OF BUSINESS ADMINISTRATION CURRICULUM
BUSINESS ADMINISTRATION (BAM)

Core Courses

BAA 505. Micro and Macro Economics (3 hours)
This course is a study of economic theory applied to activities associated with the 21st century's global and domestic perspectives. The course analyzes and reveals the environments that are significant in business activities as they relate to economic decision-making at the micro and macro levels.

BAA 510. Accounting and Finance (3 hours)
This course is an introduction to business covering major accounting and finance issues. Topics covered include: analysis of financial statements including ratio and trend analysis; investment analysis; time value of money; evaluation of the quality of earning; forms of business organization and related taxation effects; and sources of capital and financing.

BAA 515. Management and Marketing (3 hours)
This course provides an accelerated survey of basic management and marketing concepts, principles and processes. The course examines: (1) the role of the manager in today's organizations with emphasis on leadership, communication, and managing human, financial and social resources and responsibilities; and (2) the development of a firm's marketing strategy and the identification of a target market and related marketing mix (price, product, promotion, and place).

BAM 530. Business Statistics (3 hours)
This course will teach statistical methods that will help the student to make sound business decisions. Topics include numerical and graphical descriptive methods, correlation, contingency tables, probability concepts and distributions, confidence intervals, hypothesis tests, and important statistical tools: t-tests, Chi-Square Tests, ANOVA, and regression models. This course emphasizes application and interpretation rather than theoretical detail.

BAM 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.

BAM 604. Operations Management (3 hours)
Prerequisite: BAM 530 or an approved undergraduate equivalent.
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.

BAM 606. Applied Microeconomic Analysis (3 hours)
Prerequisite: BAA 505 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.

BAM 608. Global Macroeconomic Environment (3 hours)
Prerequisite: BAA 505 or an approved undergraduate equivalent.
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.

**BAM 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.

**BAM 612. Corporate Financial Management** (3 hours)
Prerequisites: BAA 510 or an approved undergraduate equivalent.
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, cost of capital, capital structure, dividend policy, and investment strategies.

**BAM 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.

**BAM 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.

**BAM 618. 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.

**BAM 620. 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.

**BAM 622. Applied Data Analysis** (3 hours)
Prerequisites: successful completion of the Statistics Skills Test prior to registration, BAM 530 or an approved undergraduate equivalent.
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.

**BAM 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.

**BAM 699. MBA Capstone** (3 hours)
Prerequisite: 24 semester graduate credits.
This course provides students with the opportunity to correlate, integrate, and apply the concepts that are developed throughout the program. An emphasis of the course is strategic management. A computer simulation is used extensively.

**MBA Electives (BAM)**

**BAM 625. Special Topics**  
(3 hours)  
Prerequisite: permission of the director of graduate programs.  
Special Topics are courses designed to provide instruction in areas and subjects that are not offered in the program curriculum as shown in the catalog. 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.

**BAM 626. Independent Study**  
(3 hours)  
Prerequisite: permission of the director of graduate programs.  
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 catalog. 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**

**BA 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)

**BA 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.

**BA 637. Governmental and Not-For-Profit Accounting**  
(3 hours)  
Prerequisite: 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.

**BA 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.

**BA 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

BA 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

BA 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.

BA 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)

BA 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.

BA 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.

BA 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.

BA 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)

BA 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 engi-
neering instruments. The objective is to use these instruments either as an individual investor or for hedging purposes by corporate managers. (Atl)

**General Business**

**BA 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**

**BA 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)

**BA 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)

**BA 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)

**BA 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**

**BA 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

BA 642. Practitioner's Seminar (1.5 hours)
Prerequisite: permission of the director of graduate programs.
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.)

BA 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)

BA 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)

BA 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.

BA 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

BA 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.

BA 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

BA 662. Direct and Electronic Marketing (3 hours)
Prerequisite: BAA 605 or BAM 620.
This course focuses on the strategy and decision-making aspects of direct and electronic marketing for the creation and execution of a modern, efficient direct promotional campaign. The course will incorporate and review the constantly evolving marketplace by examining database management technologies, crowd sourcing strategies, SEO, web analytics, mobile marketing, social media, and viral marketing. It is relevant to both business-to-consumer and business-to-business settings.

BA 681. International Marketing (3 hours)
Prerequisite: BAA 605 or BAM 620.
This course is an examination and analysis of the social, cultural, political/legal, regulatory and economic environments facing international marketers, market entry strategies, sourcing strategies, problems in the marketing organizational structure of multinational firms, and control of the international marketing function. The course focuses on alternative marketing strategies for cross-national marketing and the development of successful international strategies.

BA 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)

BA 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 brand-
ing. Special emphasis is placed on the use of promotional tools as they are used in promotional strategy formulation. (Atl)

**MBA Program: Warner Robins Air Logistics Center**

The MBA program offered at the Warner Robins Air Logistics Center is a 12-month cohort program specifically offered to Civil Service engineers. Admission requirements are identified under the Graduate Program Policies and Procedures section and by contacting the MBA Program Coordinator on the Macon Campus.

**BA 692. Organizational Behavior**

This course describes and analyzes the growth, development and application of behavioral science to industrial society. It emphasizes the social, psychological and cultural aspects of the work situation, using behavioral patterns as the basic unit of observation. Attention is focused upon such topics as industrial sociology, organization, social control, personnel psychology and industrial social psychology. This course is designed to equip a manager with the knowledge, conceptual framework, skill and experience needed to design and manage effective human-resource systems.

**BAM 614. Accounting for Control**

A course designed for middle managers which reviews the effective use of accounting information in business decision-making.

**BAA 601. Managerial Economics**

This course offers a survey of economic tools and analysis available to the manager for business decision-making. It includes such topics as pricing, forecasting, demand analysis, and macroeconomic policy as it affects the business environment.

**PBA 653c. Marketing Concepts and Consumer Behavior**

Marketing environmental factors such as the competition, the consumer, research issues, segmentation concepts, and positioning strategies are examined. This course emphasizes identification and assessment of the variety of marketing factors that are critical to the development of efficient and effective marketing initiatives.

**BAM 612. Corporate Financial Management**

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.

**BAM 610. Managers and the Legal and Governmental Environment of Business**

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.

**BAM 620. Strategic Marketing**

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.

**BA 685. Human Resource Management**

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.
BA 699. MBA Capstone (3 hours)
This course provides students with the opportunity to correlate, integrate, and apply the concepts that are developed throughout the program. An emphasis of the course is strategic management. A computer simulation is used extensively.

PBA 654e. Strategy Simulation (3 hours)
Students experience through this simulation the competitive and dynamic business environment and participate as member of an executive team. Resolving issues and making collective and individual decisions to drive business performance is the focus of this experience.

BA 696. International Management (3 hours)
Managers increasingly work either with an ethnically diverse domestic work force or at cross-national or cross-regional interfaces. To improve performance in these settings, this course examines ways in which cultures vary and how these variations as well as other differences in the world, affect work values, expectations and practices. The course then explores ways of effectively managing cultural diversity and managing in international settings.

BAM 625. Special Topics (3 hours)
Special Topics courses are designed to provide instruction in areas and subjects that are not offered in the program curriculum as shown in the catalog. Special Topics is a mechanism that facilitates the development of new courses, and encourages curricular experimentation and development.

PROFESSIONAL MASTER OF BUSINESS ADMINISTRATION (PMBA) PROGRAM

The PMBA program is conducted in four modules and four retreats. It is delivered in a virtual format concurrently in Atlanta, Macon, and Savannah. Students will study complementary business topics in thematically integrated courses varying in the number of credit hours.

PMBA Retreats: (9 hours)

PBA 641a. Retreat 1: High Performing Organizations and Communications (2 hours)
This is an orientation to the PMBA program. Topics include building high performance teams, contemporary leadership thinking, and skills in negotiating conflict and resolution of disputes. Students will also strengthen business communication skills.

PBA 641b. Retreat 2: Business Math and Statistics (2 hours)
This retreat provides students with the mathematical and statistical background necessary to perform quantitative analysis of business situations. It also introduces students to specific techniques such as project management, time value of money, and forecasting, which are examined in more detail in later course work.

PBA 641c. Retreat 3: Field Residency and Research Paper (3 hours)
Students will visit business commercial centers to examine and observe concepts learned in their course of study. The residency includes an in-depth research paper to explore a topic of interest that corresponds to the visit focus.
PBA 641d. Retreat 4: Seminar on Leadership, Ethics and Governance (2 hours)

This retreat differentiates ethics from legal and regulatory compliance. The principle-agent relationship and its role in corporate governance are explored. The framework for ethical decision-making is discussed and theoretical perspectives examined.

Module 1: The Environment of Business (9 hours)

PBA 651a. Financial Accounting and Reporting (3 hours)

Financial accounting and reporting explain the accounting regulatory environment and its impact on financial accounting and reporting. Annual external financial reports prepared by business enterprises are analyzed.

PBA 651b. Legal Issues Affecting Businesses (3 hours)

An introduction to the American legal system. Topics include the court system, litigation, constitutional law, contract law, tort law, agency, business organizations and intellectual property.

PBA 651c. Economic Conditions and Market Fundamentals (3 hours)

Essential macro and microeconomic concepts including GDP, wages and employment, and inflation are introduced. Financial markets, interest rates and risk are examined. Topics include supply and demand, elasticity, and market analysis and macro environmental policy.

Module 2: Making Decisions that Create Value (9 hours)

PBA 652a. Financial Decisions for Corporate Valuation (3 hours)

Making internal decisions that create value in the business enterprise is the central theme. Topics include competing models about the goal of a firm, investment decision-making, financing decisions, evaluating investment proposals and selection of value-creating projects as well as corporate valuation.

PBA 652b. Quantitative Approaches to Optimizing Operations (3 hours)

This course focuses on the concepts and techniques used to optimize business processes and manage projects. Approaches include tools used in making optimal decision and their applications including linear programming, decision trees and regression analysis.

PBA 652c. Managerial Approaches to Maximizing Resources (1.5 hours)

Management styles and decision-making styles used to optimize employee’s productivity are studied and evaluated for organizational effectiveness. The importance of culture and organizational behavior as well as motivation and human resource practices to enhance business processes are discussed.

PBA 652d. Managerial Accounting (1.5 hours)

An introduction to the product costing concepts required for managerial decision-making. The course provides an in-depth study of cost behavior, cost allocation and cost estimation. Other topics include transfer pricing, segment elimination and profitability analysis.

Module 3: Application of Business Concepts (9 hours)

PBA 653a. Contemporary Topics in Management (3 hours)

Discussion of current topics facing business managers is the course focus. Issues include management of a diverse work force and understanding the social and cultural issues that
exist in the global business environment. Responses to these challenges are discussed. Approaches to managing change and legal requirements are examined.

**PBA 653b. Global Macroeconomics (3 hours)**
Economic trade theory and commercial policies essential for businesses operating internationally include topics such as the theory of international trade, commercial policies, balance of payments, foreign exchange rate determination and risk management. Macroeconomic policies are evaluated.

**PBA 653c. Marketing Concepts & Consumer Behavior (3 hours)**
Marketing environmental factors such as the competition, the consumer, research issues, segmentation concepts, and positioning strategies are examined. This course emphasizes identification and assessment of the variety of marketing factors that are critical to the development of efficient and effective marketing initiatives.

**Module 4: Corporate Strategy—Implementation and Formation (12 hours)**

**PBA 654a. Information Technology and Strategic Alignment (1.5 hours)**
Information technology as an enabler to strategy execution is the subject of discussion. The evolving role of the CIO and the importance of strategic alignment with information technology are identified.

**PBA 654b. Marketing Strategies (3 hours)**
This course analyzes the decision maker’s process in producing a marketing strategy consistent with factors that are influencing the marketing environment. The focus of this course is on the development of products/services, pricing, distribution, and promotion strategies that satisfy customer needs and wants and facilitate profitable, long-term relationships with those customers.

**PBA 654c. Financial Resources for Corporate Strategy (3 hours)**
Exploring the corporate creation of value that supports the business’ objectives and the virtues and pitfalls of the competitive analysis approach are compared. Evaluation of real investments and application is included. Capital allocation decision and capital structure as well as discussions of financial decision making strategies to minimize risk exposure are examined.

**PBA 654d. Strategic Management (3 hours)**
The development and execution of strategy is examined. Students will have the opportunity to integrate and apply the concepts and principles from other courses in the program to develop effective and successful business strategy. Case analysis is used to apply these concepts.

**PBA 654e. Strategy Simulation (1.5 hours)**
Students experience through this simulation the competitive and dynamic business environment and participate as member of an executive team. Resolving issues and making collective and individual decisions to drive business performance is the focus of this experience.
The School of Engineering

Wade H. Shaw, Jr., Ph.D., P.E., Dean/Professor
Richard O. Mines, Jr., Ph.D., P.E., F.ASCE, Director of MSE and MS Programs/Professor
George F. Hayhoe, Ph.D., Director of MSTCO/Professor

Graduate Faculty:


Makin Thitsa, Assistant Professor

Master of Science in Engineering

Master of Science

The faculty of the Mercer University School of Engineering grants advanced degrees in engineering, environmental systems, software systems, and technical management 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
- Environmental Engineering
- Mechanical Engineering
- Software Engineering

The Master of Science degree is offered in the following disciplines:

- Environmental Systems
- Software Systems
- Technical Communication Management
- Technical Management
Policies and Regulations

The Curriculum 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 catalog have the option of completing the requirements 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 catalog 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 Curriculum 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 requirements are intended to ensure that profitable graduate study will result from admission. 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 enrollment 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 background for the graduate program they select and who have been approved by the department chair.

English Proficiency

All international students whose native language is not English must submit a Certificate of Proficiency from the Mercer University English Language Institute (ELI) or results of the Test of English as a Foreign Language (TOEFL) and Certificate of Proficiency from English as a Second Language (ELS) Language Center. The minimum acceptable TOEFL score is 80 IBT (internet based TOEFL), 213 CBT (computer based TOEFL), or 550 PBT (paper based TOEFL) or IELTS score of 6.5. English proficiency at ELS level 112 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. Have original transcripts submitted directly from the institution to Mercer University School of Engineering.

   International students must have their foreign academic credentials evaluated by an International Transcripts Evaluator such as World Educational Services (WES) or JS&A (Silny) and have the evaluation company submit the evaluation directly to the School of Engineering Graduate Division. The School of Engineering cannot accept transcript evaluations mailed by the student.

2. Students must submit a minimum of two and preferably three letters of recommendation for admission into the Master of Science in Engineering and Master of Science in associated programs. The letters must come from a professor or supervisor under whom you have studied, taught, or worked, and who is able to comment on your qualifications for graduate study.
3. Hold a bachelor's degree in an appropriate field of study from an ABET accredited program (Engineering Accreditation Commission) but applicants will be considered with an undergraduate degree from a regionally accredited institution or its equivalent internationally.

4. Have an earned undergraduate GPA of 3.0 overall

5. Submit GRE score on the general section of the test. A combined score of 1300 for the verbal and quantitative portions of the GRE or higher is expected for admission into the Mercer University Graduate School of Engineering. In extraordinary situations, a student may petition for a waiver of this requirement. Mercer University undergraduate students applying for the dual BSE/MSE program are exempt from this requirement.

6. 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 Office. 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 catalog.

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. Students must be enrolled in a least one hour of thesis research XXX 699 during the term in which their Final Thesis Defense takes place. 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).

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. Graduate courses may not be repeated.

The following criteria apply to all dual degree students:

1. The BSE/MSE program involves a minimum of 30 semester hours of graduate level coursework, a full fifth year, beyond the 129 semester hours required for the BSE degree.
2. Undergraduate and graduate degree coursework must be pursued concurrently.
3. Students admitted to the dual degree program must maintain at least a 3.0 cumulative grade point average on all coursework which applies toward the Master of Science in Engineering degree.
4. Students must maintain at least a 3.0 in all undergraduate coursework and remain in good academic standing to remain in the dual degree program.
Second Master’s Degrees in Engineering

A student wishing to pursue a second master's degree in the Mercer University School of Engineering must be admitted into the second program. The student must then fulfill all the requirements of graduate policy, as well as those of the academic department in which the student is enrolled, to receive the second master's degree. 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 is also available. Specific course work requirements for graduation with the Master of Science (MS) and Master of Science in Engineering (MSE) degree are established by the departments offering the program. With the approval of the academic department, credit for non-thesis or non-design project formal course work used previously to meet requirements for a master's degree at Mercer University School of Engineering may be used to meet up to 15 credits required for a second master's degree. The academic department will decide, on a per course basis, the applicability of each course to be applied to the second program. However, at least 15 credit hours of the course work leading to any master's degree granted by Mercer University must have been taken at Mercer University but never applied to any other degree. A program of study approved by the academic department head of the program in which the student wishes to enroll and including those courses carried over from the first degree must be submitted to the registrar's office before the student can be admitted to the new program. Students admitted into a second master's program that have earned graduate credit from another college or university that does not count toward another degree are eligible to transfer up to 6 credit hours towards a master's degree at Mercer as long as the courses were completed with a grade of “B” or better.

Incomplete Grade Policy

The grade of IC (incomplete) means the student is passing the class but some relatively small part of the semester work remains incomplete because of illness or another valid compelling reason that is satisfactory to the instructor.

The student should request the instructor to provide a written statement of work to be completed and the deadline by which it is due. Irrespective of the student's enrollment status, the grade of IC will be valid for one calendar year in normal lecture or laboratory courses and in unstructured, independent study courses. Within this period, the student must complete the work or obtain an extension, approved by the instructor and Chair of the Department for the course, stating the reason for the request and the length of time needed. Normally, only one request for an extension for each grade of IC will be granted. If the work is not completed within one calendar year or by the deadline established in an extension, the IC grade will be changed to a grade of F.

Graduate degrees cannot be completed until all ABX, IC, and U grades have been converted to a passing letter grade (i.e., a C or better for courses with the A/F option and an S for courses only offered on the S/U grading option).

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 Office 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

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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 Catalog.

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 graduate 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 members of the graduate faculty.
3. The committee chairperson appointment shall be a member 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.

Oral Thesis Defense

Thesis-option graduate students must publicly present and defend their thesis. In the case of a classified or proprietary thesis, the audience may be restricted. Students are encouraged to work closely with their thesis advisors in scheduling this oral defense.
Committee members must receive a copy of the written thesis at least 10 working days prior to the date of the defense. The Director of Graduate Programs must be notified with the date, location, and time of the scheduled defense and a research title and abstract for use in a public announcement.

A minimum of two hours should be scheduled for the defense. The first hour will entail a public presentation of the thesis by the graduate student with a brief question and answer session. This will be followed by a closed session consisting of the thesis committee and faculty members to discuss the technical merits of the thesis, and questions regarding the preparedness of the candidate regarding all coursework completed.

The Thesis Committee Chair convenes, chairs, and conducts the thesis defense. The Chair records recommendations made by the committee members and debriefs the candidate following the defense. The committee will vote on the acceptability of the thesis and either approve or deny the candidate for graduation. Only the following choices are acceptable for the final recommendation:

1. Accept the thesis “as is” and recommend the candidate for graduation.
2. Accept the thesis with revisions and recommend the candidate for graduation once the revisions are submitted.
3. Deny the thesis.

**Thesis Deadlines**

The Office of the Provost has established the following deadlines for the submittal of a thesis: November 1, April 1, and July 1. To meet these deadlines, graduate students in the Mercer University School of Engineering (MUSE) must submit their final approved and signed thesis to the Graduate Office two weeks prior to the deadlines imposed by the Provost’s office to ensure that the document has been properly formatted and any necessary changes can be made prior to the final submission.

**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. Students must complete all degree requirements prior to attending graduation ceremonies. There are no exceptions.

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 home department, with respect to coursework 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; and
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

BME 513. Advanced Biomechanics (3 hours)
Prerequisite: BME 412 or (consent of the instructor).
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. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.

BME 550. Advanced BioFluids (3 hours)
Prerequisites: BME 440 or MAE 430 (or consent of instructor).
The course objectives continue to build on advanced theories and solution techniques related to biological fluid flow phenomena primarily concentrating on the flows in cardiovascular and respiratory systems. Topics covered include: hemodynamics in carotid artery bifurcations, coronary arteries, abdominal bifurcations, arterial anastomoses, and air-particle transport in the lung airways. Computational fluid dynamics modeling and simulation are the tools to solve the flow phenomena numerically. A group project report and presentation, in the form of a conference paper/presentation, are required. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.

BME 591-592-593*. Special Topics (1-6 hours)

BME 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.

BME 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.

BME 631. Joint Modeling (3 hours)
Prerequisite: undergraduate biomechanics class or permission from the instructor.
Mathematical models for human joints will be developed. Reverse engineering software, such as Mimics or Simpleware will be used to create three dimensional finite element models (3D FEM) from two dimensional Computed Tomography (2D CT) scan data. The finite element models will then be analyzed using commercial software such as ANSYS. The course introduces the basics of CNC machining to design selective orthopedic joint
mechanical models for analysis and testing. Students will be expected to complete a class project.

BME 632. Musculoskeletal Injury Mechanics (3 hours)
Prerequisite: undergraduate biomechanics class or permission from the instructor.
The biomechanics of bone fractures and of musculoskeletal injuries related to accidents, including sports injuries, are analyzed. Case studies of bony fractures of patients are the main focus. The mechanisms of orthopedic implant failures are also discussed. Students will be expected to complete a class project.

BME 633. Rehabilitation Engineering Applied to the Musculoskeletal System (3 hours)
Prerequisite: undergraduate biomechanics class or permission from the instructor.
The fundamentals of rehabilitation engineering design, the biomechanics of musculoskeletal mobility/manipulation and FDA regulations for assisting patients with disabilities will be presented. Prostheses and orthoses, including manual/power wheelchairs will be designed. Students will be expected to complete a class project.

BME 636. Advanced Biomaterials in Orthopedic Implants (3 hours)
Prerequisite: undergraduate Biomaterials class or permission from the instructor.
This course emphasizes the applications of orthopedic implants. The material properties and complications of implants and the in vivo environment are presented. Biomechanical aspects of the materials used for most of the endoprostheses in the human body are discussed. Students will be expected to complete a class project.

BME 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.

BME 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

BME 698. Professional Seminar (1-6 hours)

BME 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 the design of 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

ECE 510. Analog Filter Design (3 hours)
Prerequisite: C or better in ECE 202, C or better in ECE 311 (or consent of instructor).
Principles of active and passive filter design, simulation, and realization. Design and implementation of lowpass, highpass, bandpass, and notch filters. Butterworth, Chebyshev, and elliptic filter design. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.

ECE 511. Power Electronics (3 hours)
Prerequisite: C or better in ECE 312 (or consent of instructor).
Principles of diode rectifiers and controlled rectifiers, inverters, voltage regulators and large-signal discrete and integrated-circuit power amplifiers. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.

ECE 524. Digital Design with VHDL (3 hours)
Prerequisite: C or better in ECE 322 (or consent of instructor).
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. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.

ECE 525. Introduction to Computer Architecture (3 hours)
Prerequisite: C or better in ECE 323 (or consent of instructor).
Concepts of computer architecture including pipelining, cache memory, memory management, disk management systems, computer arithmetic, and instruction set architecture. Design of microprogrammed and hardware controllers. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.

ECE 528. Embedded Computer Systems (3 hours)
Prerequisites: C or better in ECE 323, and C or better in ECE 424 (or consent of instructor).
Design of computer systems as components of larger engineering systems. Emphasis is on real-time applications. Integration of high-level and low-level software components in a real-time environment. The course will emphasize applications which involve hard deadlines for real-time data handling and real-time control of physical systems with a significant lab component. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.

ECE 531. Analog and Digital Signal Processing (3 hours)
Prerequisite: C or better in ECE 202 (or consent of instructor).
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 frequency response. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.
ECE 532. Digital Signal Processing (3 hours)
Prerequisite: C or better in ECE 431 (or consent of instructor).
Z-transform, design of 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. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.

ECE 535. Introduction to Data Compression (3 hours)
Prerequisite: C or better in ECE 431 (or consent of the instructor).
Mathematics and techniques for common methods of both lossless and lossy compression of digital data: compression of one-dimensional and two-dimensional signals; Huffman and Tunstall codes; quantization; predictive coding; transform coding; sub-band coding. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.

ECE 541. Fiber Optic Communications (3 hours)
Prerequisite: C or better in ECE 341 (or consent of instructor).
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). This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.

ECE 542. Electromagnetic Compatibility (3 hours)
Prerequisite: C or better in ECE 340 (or consent of instructor).
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. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.

ECE 543. Antenna Theory (3 hours)
Prerequisite: C or better in ECE 340 (or consent of instructor).
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. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.

ECE 545. Transmission Lines (3 hours)
Prerequisite: C or better in ECE 340 (or consent of instructor).
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. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.
ECE 551. Communication Systems I (3 hours)
Prerequisite: C or better in ECE 202, EGR 252 (or consent of instructor).
Corequisite: 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. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.

ECE 552. Communication Systems II (3 hours)
Prerequisite: C or better in ECE 451 (or consent of the instructor).
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. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.

ECE 555. Computer Networks (3 hours)
Prerequisite: C or better in ECE 323 (or consent of instructor).
Protocols and structures for computer networks. Circuit and Packet switch networks. Basic network performance issues. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.

ECE 561. Feedback Control Systems: Digital Control (3 hours)
Prerequisite: C or better in EGR 386 (or consent of instructor).
Control system analysis and design with emphasis on digital controllers and additional topics include multi-input/multi-output systems and non-linear controllers. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.

ECE 571. Power Systems Fundamentals (3 hours)
Prerequisites: C or better in ECE 202, C or better in EGR 245 (or consent of instructor).
Basic power system analytical concepts, three-phase systems, phasors, impedances, steady-state network analysis, normalization, transmission lines, transformers, synchronous machines, power flow. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.

ECE 591-592-593*. Special Topics (1-6 hours)

ECE 601. Filter Synthesis (3 hours)

ECE 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.

ECE 623. Computer Architecture (3 hours)
Advanced topics in computer architecture: pipelining, principles, superscalar techniques, vector processors, SIMD computers, MIMD computers, multiprogramming.
ECE 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.

ECE 632. Adaptive Signal Processing (3 hours)
Analysis, design, and implementation of adaptive filters: steepest descent algorithms, least squares, Kalman filter, LMS.

ECE 633. Image Processing (3 hours)
Introduction to image processing: perception, imaging, image transforms, image enhancement, restoration, encoding, segmentation, and representation.

ECE 634. Statistical Signal Processing (3 hours)
Random signals and noise, random processes, optimal filters, linear prediction, and spectral estimation.

ECE 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.

ECE 641. Applied Electromagnetic Fields I (3 hours)

ECE 642. Applied Electromagnetic Fields II (3 hours)
Prerequisite: ECE 641.
A continuation of ECE 641.

ECE 643. Microwaves (3 hours)

ECE 651. Digital Communication Systems Design I (3 hours)
Elements of digital communications design, review of random signal theory, key results of information theory, Gaussian and fading channel models, baseband signaling and spectral shaping, quaternary modulation schemes, M-ary modulation techniques, continuous phase modulation, coherent and non-coherent detection of digital signals in Gaussian noise.

ECE 652. Digital Communication Systems Design II (3 hours)
QAM and OFDM, coded signaling, a practical review of linear block codes, brief review of convolution codes, trellis coded-modulation, Coded OFDM, direct sequence spread spectrum signaling, frequency hopping technique, CDMA and its applications in mobile and secure communications, digital signaling over fading channels, digital communication system design examples.

ECE 653. Error Correction Coding I: 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-Massay algorithm, code modification and concatenation, burst error correction with Reed-Solomon codes.
ECE 654. Error Correction Coding II: Convolutional and Turbo Codes  (3 hours)
Linear convolutional codes, structural properties of convolutional codes and weight enumerating functions, punctured convolutional codes, the Viterbi algorithm, SOVA and BCJR algorithms, turbo codes, encoding and interleaving, performance analysis of turbo codes, iterative decoding of turbo codes.

ECE 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.

ECE 656. Wireless Communications  (3 hours)
Prerequisite: ECE 451 or Graduate Standing
The cellular concept and the first generation cellular networks, characterization of mobile communication channels, slow fading and link budget analysis for wireless communications, multipath fading and Doppler effect, modulation for wireless communications, channel coding and CDPD system, 2G and GSM architecture, multiple access technologies, introduction to CDMA and 3G.

ECE 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.

ECE 658. Electronic Countermeasures  (3 hours)
Prerequisite: Graduate Standing in ECE; knowledge of radar recommended.
Course Description: A comprehensive overview of the principals involved with detecting and countermanding electromagnetic signals with concentration on military applications. Mathematical concepts will include descriptive models of the signals and links used as information and sensor paths, using decibels as a means of simplifying logarithmic relationships. Equipment choices will be covered including antennas (required concentrations of power or fields of view), transmitters (signal level requirements considering link losses), receivers (tradeoffs between probability of interception and detailed knowledge of signals), and processors (priority of effort, time constraints, operator considerations). Specific electronic countermeasures requirements (searching, jamming, confusing, and deceiving) will also be discussed.

ECE 661. Linear Control Systems  (3 hours)

ECE 662. Fuzzy Logic Control  (3 hours)

ECE 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.

ECE 691, 692, 693. Special Topics (1-6 hours)
ECE 698. Professional Seminar (1-6 hours)
ECE 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 bache-
lor's degree preparation in several engineering disciplines and other technical programs
such as physics, chemistry, quantitative business administration, etc. Its purpose is to pre-
pare 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 simultaneous-
ly formulating technical strategies.

This program combines the concepts of management and business administration with
the technical expertise developed in engineering, mathematics, and the quantitative sci-
ences. 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 fol-
lowing 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 bachelors degree from an ABET accred-
ited 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, mathe-
matics, 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 provi-
sional 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 sci-
ence in technical management curricula require that a total of 30 semester hours of gradu-
ate 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

   1 Note that while BAM 616 may be used to satisfy the block 4 course requirement, BAM 616 cannot be used to satisfy the minimum of 18 hours in discipline required by the School of Engineering.

5) Additional approved ETM graduate coursework: 6 hours
   Sub-total 18 hours

For the thesis option:

ETM 699. Thesis Research approved 500 or 600 level electives from
approved 6 hours
the School of Engineering, the Stetson School of Business and Economics, or with the consent
of the student's advisor and program director
TOTAL hours for thesis option approved 6 hours
30 hours

For the all coursework option:

approved 500 or 600 level electives from the School of Engineering, the Stetson School of Business and Economics, or with the consent
of the student's advisor and program director

TOTAL hours for all coursework option approved 12 hours
30 hours

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

**ETM 543. Project Management** (3 hours)
Prerequisite: EGR 312 or FIN 362 or (consent of the instructor).
Tools and techniques for managing engineering projects. Includes both the technical aspects (work breakdown structures, cost estimating, CPM/PERT, scheduling, etc.) and the human aspects (organizational culture, management structures, leadership, etc.) Integrated case studies and team exercises. (NOTE: credit will not be given for both ETM 543 and ETM 643.) This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.

**ETM 568. Healthcare Process Improvement** (3 hours)
Prerequisite: EGR 252 or (consent of the instructor).
Tools and techniques for improving the delivery of healthcare. Lean and Six Sigma process improvement methodologies. Application of both parametric and non-parametric statistical analysis. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.

**ETM 591, 592, 593. Special Topics** (1-6 hours)
Graduate level courses composed of selected undergraduate technical electives and additional requirements beyond those specified for undergraduate students.

**ETM 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.

**ETM 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.

**ETM 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.

**ETM 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.

**ETM 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.

**ETM 641. Reliability and Maintainability** (3 hours)
Reliability and maintainability considerations during the equipment life cycle.
ETM 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.

ETM 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.

ETM 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.

ETM 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.

ETM 657. The Profession in the 21st Century  (3 hours)

ETM 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.

ETM 691, 692, 693, 694, 695, 696, 697. Special Topics  (1-6 hours)

ETM 698. Professional Seminar  (1-6 hours)

ETM 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.

Environmental Engineering (M.S.E.)

Environmental Systems (M.S.)
The Master of Science in Engineering in Environmental Engineering and the Master of Science in Environmental Systems program are characterized by the breadth of subject areas that comprise the disciplines. The programs are designed to prepare students to appreciate and apply an appropriate depth of knowledge in traditional environmental engineering and science subject areas such as water, wastewater, air pollution and solid waste. In addition, the programs are focused on sustainability and green engineering as well as relevant global environmental issues such as hazardous waste site reclamation, green house gas emissions abatement and sequestration, emergent contaminants and natural treatment systems.

The Master of Science in Engineering in Environmental Engineering curriculum requires that a total of 30 semester hours of graduate coursework be completed. The program can
be arranged with either a thesis or an all coursework option. A minimum of 18 hours must be taken in the Environmental Engineering discipline, 12 of which must be at the 600 level. The additional 12 hours required for graduation should be taken from the Engineering/Technical Management master's degree program offered within the School of Engineering. Students must also complete a minimum of 18 hours at the 600 level. An optional thesis is also available. A maximum of 6 hours of research may be counted toward the degree if the thesis option is chosen. The program is open to all qualified engineers, regardless of undergraduate engineering major. Students who do not have an adequate background (CHM 111 or CHM 112) in chemistry may be required to take additional courses.

The Master of Science in Environmental Systems degree requires that a total of 30 semester hours of graduate coursework be completed. The program can be arranged with a thesis or an all coursework option. A minimum of 18 hours must be taken in the Environmental Engineering discipline, 12 of which must be taken at the 600 level. The additional 12 hours required for graduation should be taken from Engineering/Technical Management master's degree program offered within the School of Engineering. Students must also complete a minimum of 18 hours at the 600 level. An optional thesis is also available. 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. Students who do not have adequate backgrounds in mathematics (MAT 191, MAT 192, and MAT 330) or chemistry (CHM 111 and CHM 112) may be required to take additional courses.

**EVE Courses**

**EVE 502. Air Pollution Generation and Control** (3 hours)
Prerequisite: EVE 290 (or consent of instructor).
Fundamental concepts including the origin and fate of air pollutants. Basic concepts of atmospheric chemistry and meteorology, atmospheric dispersion phenomena, governmental regulations, emission and air-quality standards. Design of processes and equipment for control of gaseous and particulate emissions. Current issues. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.

**EVE 503. Atmospheric Chemistry I** (3 hours)
Prerequisite: EVE 402 (or consent of instructor).
An introduction to atmospheric chemical transformations; atomic structure and chemical bonding; thermodynamics, gas-phase kinetics, and photochemistry; tropospheric processes; stratospheric processes. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.

**EVE 505. Design and Analysis of Wastewater Systems** (3 hours)
Prerequisite: EVE 290 (or consent of instructor).
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. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.
EVE 506. Design and Analysis of Water Systems (3 hours)
Prerequisite: EVE 290 (or consent of instructor).
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. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.

EVE 520. Solid Waste Management (3 hours)
Prerequisites: CHM 112 and EVE 290 (or consent of instructor).
Chemical, mechanical and biological equipment and instrumentation for the collection, processing and disposal of solid wastes are studied and designed. Federal, state, and local regulations regarding generation and disposal of wastes are covered. Handling and recycling of municipal wastes is emphasized. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.

EVE 530. Bioremediation (3 hours)
Prerequisite: EVE 405 (or consent of instructor).
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. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.

EVE 586. Public Health (3 hours)
Prerequisites: senior Standing; EGR 252, EVE 405, and EVE 420.
Corequisite: EVE 402 (or consent of the instructor).
Public health engineering principles for protection against biological and chemical hazards. Introduction to toxicology and epidemiology. Basic risk assessment concepts as applied to water, airborne, and toxic pollutants. Emphasis on major communicable diseases that plague mankind, organisms that cause them, routes of transmission, and engineering control methods. Appropriate control methods, for rural areas and developing countries. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.

EVE 591, 592, 593. Special Topics (1-6 hours)

EVE 603. Atmospheric Chemistry II (3 hours)
A presentation of the current understanding of the chemistry of the natural and polluted and lower atmosphere. Kinetics and reaction rates of the stratosphere and troposphere; analytical methods.

EVE 605. Water Quality I (3 hours)
A study of the theory, analysis and design of wastewater treatment facilities for the reduction and elimination of organic and inorganic contaminants.

EVE 606. Water Quality II (3 hours)
A study of the theory, analysis and design of water treatment facilities for the production of potable water from surface and ground waters.
**EVE 610. Environmental Chemistry** (3 hours)
Applied, environmental aspects of physical, organic, and inorganic chemistry; including application of the phenomena of precipitation, complexation, buffering capacity, and chemical equilibrium. The nomenclature and properties of organic compounds.

**EVE 613. Urban Aerosols** (3 hours)
A study of the formation, concentrations, and compositions of urban aerosols. Sampling and measurement techniques; gas-aerosol partitioning; secondary aerosols; climate change impacts.

**EVE 615. Biotechnology** (3 hours)
Develop an understanding of the stoichiometric and kinetic fundamentals of microbiological processed used in environmental control and remediation. Apply those fundamentals to the design and operation of the major processes used in environmental biotechnology.

**EVE 620. Design of Municipal Solid Waste Landfills** (3 hours)
Concepts and calculations associated with the design and modeling of ‘typical’ RCRA subtitle-D landfills as well as advanced treatment ‘bioreactor’ landfills.

**EVE 630. Environmental Assessment and Remediation** (3 hours)
Covers the clean-up of sites contaminated with hazardous waste along with an overview of regulations and related definitions. Objectives of remedial action and site investigations and the implementation of the in-situ and of-site treatment technologies.

**EVE 685. Stormwater Management** (3 hours)
Theories, applications, and modeling of storm water quality and quantity. Management of post-development runoff will be emphasized.

**EVE 686. Environmental Epidemiology** (3 hours)
A study of the frequency and patterns of disease that are influenced by environmental factors. Chemical, biological and physical agents; social settings and factors affecting human contact with these agents; natural disasters.

**EVE 687. Environmental Toxicology** (3 hours)
A study of the harmful effects that result from exposures to chemical agents in humans and other organisms. Toxicity, dose and response, the immune system, regulatory considerations, and risk assessment.

**EVE 690. Fate and Transport of Groundwater Contaminants** (3 hours)
Theories, applications, and modeling of the physical, chemical, and biological transport and transformation processes affecting groundwater contaminants.

**EVE 691, 692, 693. Special Topics** (1-6 hours)

**EVE 698. Professional Seminar** (1-6 hours)

**EVE 699. Thesis Research** (1-6 hours)
A maximum of six hours 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 credit hours of graduate coursework. 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 MAE 508, Mechanical Engineering Applications of Partial Differential Equations. This course represents basic techniques of analysis and should be taken as early in the student's program as is practicable. The elective 12 hours required for graduation should be taken from the Engineering or Engineering Management master's degree programs offered within the School of Engineering.

The program can be arranged with either a thesis option or an all coursework option.

For both options:

- MAE 508. Mechanical Engineering Applications of Partial Differential Equations 3 hours
- additional approved MAE graduate coursework (cannot include MAE 697 or MAE 699) 15 hours

Sub-total 18 hours

For the thesis option:

- MAE 699. Thesis Research 6 hours
- approved 500 or 600 level electives (cannot include MAE 699) 6 hours

TOTAL hours for thesis option 30 hours

For the all coursework option:

- approved 500 or 600 level electives (cannot include MAE 699) 12 hours

TOTAL hours for all coursework option 30 hours

A minimum of 18 hours (excluding research and independent study 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 department chair.

**MAE Courses**

**MAE 508. 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.

**MAE 522. Intermediate Dynamics** (3 hours)

Prerequisites: C or better in EGR 236, MAT 330. Three dimensional kinematics of rigid bodies. Three dimensional kinetics of rigid bodies: force and acceleration. Vibrations. Design of systems to produce different types of motion. This course is available only to students enrolled in a graduate program and contains learning activities consistent with a graduate level engineering course.
MAE 525. Vibrations (3 hours)
Prerequisites: C or better in EGR 236, 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. This course
is available only to students enrolled in a graduate program and contains learning activities
consistent with a graduate level engineering course.

MAE 527. Solid Mechanics III (3 hours)
Prerequisites: MAE 310 or equivalent, MAE 320 or equivalent.
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.

MAE 544 Flight Structures (3 hours)
Prerequisite: MAE 320 or equivalent.
Loads, fatigue, minimum weight design, stress analysis of semi-monocoque structures, and
design of members in tension, bending, and torsion.

SPECIAL COURSES: MAE 591, 592, 593. May be repeated for credit with per-
mission of advisor.

MAE 591, 592, 593. Special Topics—Lecture Based Courses (3 hours)
Graduate level courses composed of a chosen senior level undergraduate technical elec-
tive and additional requirements beyond those specified for the undergraduate students.

MAE 610. Numerical Methods for Engineers (3 hours)
Prerequisites: MAT 293 or equivalent, MAT 330 or equivalent, MAE 310 or equivalent.
Numerical methods applied to engineering problems. Solution of linear systems, eigenval-
ue problems, nonlinear systems, initial- and boundary-value problems for ordinary differen-
tial equations. Differentiation, optimization, and integration techniques. Finite difference

MAE 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.

MAE 623. Advanced Dynamics (3 hours)
Topics include three-dimensional kinematics and dynamics of rigid bodies and systems of
rigid bodies; momentum and energy; elementary calculus of variations; Lagrange's equa-
tions of motion; Hamilton's Principle; the principle of virtual work; stability; applications to
spacecraft dynamics, mechanism design, and vibration problems.

MAE 626. Theory of Plates and Shells (3 hours)
Prerequisites: MAE 310 or equivalent, MAE 320 or equivalent
Laterally loaded plates with various boundary conditions; elastic stability of plates; differen-
tial geometry of surfaces; equilibrium and strain equations; membrane theory of shells;
shells of revolution with emphasis on cylindrical and spherical shells.

MAE 628. Applied Elasticity (3 hours)
Prerequisites: MAE 310 or equivalent, MAE 320 or equivalent
Analysis of stress, analysis of strain, and development of the governing field equations of
linear elasticity: equilibrium, kinematic, constitutive, and compatibility equations.
Formulation of elastic boundary value problems. Application to two- and three-dimensional problems.

MAE 629. Continuum Mechanics (3 hours)
Prerequisites: MAE 310 or equivalent, MAE 320 or equivalent

MAE 630. Advanced Engineering Thermodynamics (3 hours)
Prerequisite: MAE 235 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.

MAE 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.

MAE 634. Intermediate Heat Transfer (3 hours)
Prerequisites: EGR 235 or equivalent, MAE 310 or equivalent, MAE 330 or equivalent.

MAE 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.

MAE 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.

MAE 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.

MAE 640. Aircraft Structural Analysis (3 hours)
Prerequisite: MAE 320 or equivalent.

MAE 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.
MAE 650. Finite Elements (3 hours)
Prerequisites: MAE 310 or equivalent, MAE 320 or equivalent, MAE 430 or equivalent.
Finite element applications in elasticity, heat transfer, and fluids.

MAE 660. Materials in Mechanical Engineering (3 hours)
Prerequisites: 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.

MAE 661. Laminated Composite Materials (3 hours)
Prerequisites: EGR 252 or equivalent, MAE 320 or equivalent.
The structure and mechanical properties of composite laminates.

MAE 662. Fatigue and Fracture (3 hours)
Prerequisites: MAE 310 or equivalent, MAE 322 or equivalent.
Stationary crack under static loading, energy balance, crack initiation and growth, dynamic crack growth, and fatigue of metals, ceramics, polymers, and composites.

SPECIAL COURSES: MAE 691, 692, 693, 697, 698, 699 for variable credit. May be repeated for credit with permission of advisor.

MAE 691, 692, 693. Special Topics—Lecture Based Courses (1-6 hours)
Special topics courses delivered in a traditional classroom/classroom-laboratory setting.

MAE 697. Special Topics—Independent Study/Non-thesis Research (1-3 hours)
A maximum of 3 hours of independent study/non-theses research may be counted toward the degree.

MAE 698. Professional Seminar (1-6 hours)

MAE 699. Thesis Research (1-6 hours)
A maximum of 6 hours of thesis 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 engineering. 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 professionals, 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://engineering.mercer.edu/academics/graduate/software_engineering.cfm.

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 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 550 and SSE 554, Object-Oriented Design I and II.

The determination of competence that will result in exemption from the introductory courses, Object-Oriented Design I, SSE 550 or Object-Oriented Design II, SSE 554, 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 one of three modern programming languages (C#, Java and C++); are proficient in the use of a modern specification language such as UML; are proficient in the use of software processes; and develop additional proficiency through the selection of appropriate electives. A program of study for the degrees will include SSE 554, 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.

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 554; and one of SSE 657, 658, or 659; and one additional SSE course to be selected with the approval of the program director. The software engineering minor is not available to computer engineering majors.
SSE Courses

SSE 550. Object-Oriented Design I (3 hours)
Prerequisite: SSE graduate standing or permission of the program director. This is a beginning course in object-oriented development. It may be taken in one of several object-oriented languages, e.g., C#, Java, or C++.

SSE 554. Object-Oriented Design II (3 hours)
Prerequisite: SSE 550.
This second course extends the material covered in SSE 550 with greater breadth and depth. Students will use the same programming language (e.g., C#, Java, or C++) that they used in the prerequisite course. The specific topics covered may vary depending on the language used by the student.

SSE 570. Software Engineering (3 hours)
Prerequisite: SSE graduate standing or permission of the program director.
Software engineering overview, including software processes and software project 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 validation. Software management, cost estimation, quality management, and process improvement. Software evolution, change, re-engineering, and configuration management.

SSE 572. Disciplined Software Development (3 hours)
Prerequisite: SSE 550.
Individual software development practices for estimating, measuring, and controlling process schedule and product quality. May include the Personal Software Process (PSP).

SPECIAL COURSES: 591, 592, 593 for variable credit. May be repeated for credit with permission of the advisor.

SSE 591, 592, 593. Special Topics (1-6 hours)

SSE 635. Advanced Computational Techniques (3 hours)
Prerequisite: SSE 550.
Topics covered may include genetic algorithms, artificial intelligence, and/or neural networks.

SSE 636. Computational Intelligence Applications (3 hours)
Prerequisite: SSE 550.
Applications of computational intelligence to solve problems in a variety of applications, which may include graphic simulations and interfaces.

SSE 643. Advanced Graphic Interfaces (3 hours)
Prerequisite: SSE 550.
The development of graphic user interfaces more sophisticated than those covered in the prerequisite course. Development environments and application libraries specifically designed for interface development may be included. Topics may vary significantly depending on the student’s choice of programming language (e.g., C#, C++, or Java).

SSE 657. Object-Oriented Project Methods (3 hours)
Prerequisite: SSE 550.
Covers the software development life cycle. General object oriented analysis techniques (OOA) for software and system specifications are presented and applied to develop appli-
cification 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.

SSE 658. Design Problems and Solutions (3 hours)
Prerequisite: SSE 550.
Advanced topics in object oriented design (OOD), emphasizing the reuse of successful designs via design patterns. Design quality.

SSE 659. Design Quality and Maintenance (3 hours)
Prerequisite: SSE 550.
Software maintenance and the improvement of the design of existing code. Incremental development, adding new features with support from refactoring. Design quality.

SSE 660. Software Test (3 hours)
Prerequisite: SSE 550.
Software testing at several levels and at several states of development, including acceptance testing. Software validation and verification.

SSE 661. Software Architecture (3 hours)
Prerequisite: SSE 550 or permission of the program director.
A course in software architectural design. All students will begin with a common core of software architectures and criteria for selecting them. Impact of software architectural choices on: availability, modifiability, performance, security, testability, and usability. Students will then explore architectures selected from among the many available.

SSE 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.

SSE 675. Lean and Agile Software Development (3 hours)
Prerequisite: SSE graduate standing or permission of the program director.
Software management and processes with consideration of process impact on cost, schedule, and development techniques.

SPECIAL COURSES: 691, 692, 693, 698, 699 for variable credit. May be repeated for credit with permission of the advisor.

SSE 691, 692, 693. Special Topics (1-6 hours)
SSE 698. Professional Seminar (1-6 hours)
SSE 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 eight courses plus a capstone and elective. The degree requires a total of 30 semester hours. Courses are designed to provide both breadth and depth of knowledge and experience in the key subject areas for technical communicators.

The curriculum is as follows:

- TCO 605. Usability (3 hours)
- TCO 620. Managing Multimedia (3 hours)
- TCO 630. Managing People and Projects (3 hours)
- TCO 641. Advanced Technical Communication (3 hours)
- TCO 650. History and Theory of Technical Communication (3 hours)
- TCO 651. International Technical Communication (3 hours)
- TCO 665. Instructional Design (3 hours)
- TCO 676. Visual Communication (3 hours)
- 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 the program director.
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)

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. Students must perform to the same expectations as all other graduate students seeking the MS degree.

TCO Courses

TCO 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.

TCO 620. Managing Multimedia (3 hours)
The course is a study of the theory and practice of the management of multimedia production, design, and implementation. Students conduct interviews with multimedia professionals, complete a comprehensive evaluation of three multimedia products, and create a persuasive report recommending a multimedia project at their organization. Class consists of weekly lectures and discussion as well as offline participation in a discussion board.

TCO 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.

TCO 641. Advanced Technical Communication (3 hours)
A detailed examination of the major forms and processes of technical communication, including reports, instructions, proposals, and online communication. Includes collaboration and peer review. Emphasis on determining audience and purpose, especially in organizational contexts, and on effective document design. The course will consider the theoretical foundations of the major forms of technical communication, the evolution of contemporary practice, and future directions.

TCO 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.

TCO 651. International Technical Communication (3 hours)
A study of how in a global business environment, technical communication products must meet significant demands of different cultures and languages. Explores how to balance business needs with culturally diverse users' needs. Investigates how cultural beliefs, attitudes, and values shape the communication process by examining the theory, research, and practices that technical communicators need to consider when internationalizing and localizing communication products.
TCO 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.

TCO 676. Visual Communication (3 hours)
An exploration of the wide array of elements of visual communication and principles of communication design. Examines the reasons why the design of one document is considered more successful than the design of another. Provides the theoretical, practical, and management background needed to ensure that an organization's communication products, regardless of medium, comply with best practices of visual design.

TCO 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.

TCO 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.

TCO 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

Paige L. Tompkins, Ph.D., Interim Dean/Professor
Allison C. Gilmore, Ph.D., Associate Dean/Professor
Kaye Thomas, Interim Assistant Dean/Director of Field Placement/instructor
Elaine Artman, Richard H. Binkney, Olivia Boggs, Edward Bouie, Jr., Sherah Betts Carr, Jacquelyn M. Culpepper, Karen H. Davis, Ismail S. Gyagenda, J. Kevin Jenkins, Margie W. Jones, Leonard E. Lancette, Mary Nell McNeese, Mary O’Phelan, Emilie W. Paille, Barbara Rascoe, debra leigh walls rosenstein, Peter A. Ross, Wynnetta A. Scott-Simmons, Karen Weller Swanson, Sylvia Y. Taylor, and Jane West, Associate Professors
Kathy A. Arnett, Sharon Augustine, Lucy Bush, Jabari Cain, Martha Lee Child, Geri S. Collins, Carl E. Davis, Sammy L. Felton, Tristan L. Glenn, Andrew L. Grunzke, Jeffrey Scott Hall, Carol A. Isaac, Mary Jacobs, Joseph R. Jones, Sybil Anne Keebsbury, Pamela A. Larde, Ronald Knorr, Jane Metty, John Payne, Justus J. Randolph, Kelly Reffitt, Jon M. Saulson, Michelle Vaughn, Clemmie B. Whatley, and Vincent Youngbauer, Assistant Professors
Robert L. Lawrence, Director of Assessment/Assistant Professor
Cynthia Anderson and Rebecca Grunzke, Visiting Assistant Professors
Barbara McWethy, Instructor
Jessica Warren, Visiting Instructor
Pamela Kelsey and Jan Simmons, Part-time Instructors
Vic Verdi, Clinical Instructor

The Tift College of Education offers the Master of Arts in Teaching Secondary, the Master of Education degree in Higher Education Leadership and in Independent and Charter School Leadership, the Doctor of Philosophy and Specialist in Education in Educational Leadership, and the Doctor of Philosophy in Curriculum and Instruction on the Macon campus. Programs leading to certification are approved by the Georgia Professional Standards Commissions and accredited by the National Council for Accreditation of Teacher Education.

GENERAL GRADUATE PROGRAMS POLICIES

The purpose of the graduate programs in education is to prepare professional educators who will have a philosophy of growth and change based on reliable knowledge about the principles and practices of education. An additional objective is to educate teachers and educational leaders 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 specified completion time 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 programs.
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 and educational leaders to plan appropriately for disabled, special needs, and other diverse populations.

**Academic Standards for Graduate Students**

Students in all degree and non-degree graduate programs must earn a grade of B or better in all required classes and field experiences. Students in the Ed.S. degree programs or the Ph.D. degree programs must maintain a cumulative grade point average of 3.5 on a 4.0 scale. 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 graduate student’s cumulative graduate GPA with Mercer falls below 3.0 (3.5 for Ed.S. or Ph.D. candidates), the student will be placed on academic probation until he/she raises the GPA to the minimum requirement. A student who is on academic probation is limited to one graduate class per semester. Special permission from an associate dean and the appropriate chair is required for a student on probation to enroll in more than one class per semester. If a student continues on academic probation for two semesters, his/her case will be reviewed by the associate dean, the chair, and faculty and the student may be subject to academic dismissal.

**Time Limitation in Completion of Requirements**

A student in a graduate 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.

**Transfer Credits**

There are certain conditions that must be met to transfer regular graduate credit to Mercer’s graduate programs. 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 sought at Mercer.

The work must be appropriate for the student's planned program. The maximum amount of transferred credit is limited to six semester hours for the masters level programs. For the Ed.S. and Ph.D. programs in Educational Leadership, nine hours of transfer credit may be accepted. 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 a degree at Mercer (exception: nine hours of an Ed.S. may be eligible for consideration towards the Ph.D. in Educational Leadership). No credit will be given for courses completed more than six years prior to the date on which the Mercer degree is to be conferred.

**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 appropriate associate dean or chair. Each appeal will be reviewed and decided upon by the faculty in a regular business session. Admission does not ensure satisfactory completion of the program selected nor recommendation for certification.
English Proficiency

An international student 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 80 IBT (internet based TOEFL), 213 CBT (computer based TOEFL), or 550 PBT (paper based TOEFL) or IELTS score of 6.5. English proficiency at ELS Level 109 is expected.

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 through an associate dean. 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 appropriate associated dean and chair.

Code of Ethics for Educators

All students admitted into the Tift College of Education are expected to be familiar with and 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 M.Ed. and Ed.S. students may participate if they meet both of the following conditions:

1. If they are within nine hours of completing all degree requirements and are scheduled to complete those requirements in the summer semester.
2. If they meet the minimum GPA requirements for the degree.

Ph.D. candidates must complete all degree requirements prior to participating in commencement.

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 Educator - 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. Believes in his or her own efficacy as an educator and 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.

Special Student Classification
Students seeking re-certification, certification in an additional field or transient enrollment 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. Transcripts (not required for transient students)
3. Additional requirements as applicable:
   a. 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 (if applicable); copy of teaching certificate.
   b. Transient students: Copy of a letter of transient permission from the degree granting college or university.

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.
GRADUATE PROGRAMS IN TEACHER EDUCATION
THE MASTER OF ARTS IN TEACHING (M.A.T.) DEGREE

The Tift College of Education offers a Master of Arts in Teaching (M.A.T.) degree for secondary (grades 6-12) certification candidates on the Macon Campus. The degree is intended for the initial certification candidate who holds a baccalaureate degree in a secondary certification content field and who is seeking initial teacher certification at the master's degree level. Successful completion of the M.A.T. and passing scores on the appropriate assessments lead to eligibility for T-5 Level Secondary (6-12) in the appropriate field (English, Math, Biology, Chemistry, Earth/Space Science, Physics, Economics, Geography, History, Political Science). The Conceptual Framework of the Tift College of Education guides the M.A.T. program. Program graduates are recognized as "Transforming Educators" who will demonstrate the knowledge (To Know), skills (To Do) and dispositions (To Be) of outstanding professional educators and who are prepared to be leaders within their schools, proficient consumers of educational research, and advocates for all learners.

Admission to the Master of Arts in Teaching (M.A.T.) Program
Candidates for admission to the M.A.T. program must submit a formal written application for admission. In addition to the application, applicants must provide the following:
1. Two official copies of all transcripts.
2. Documentation of an overall undergraduate G.P.A. of at least 2.5.
3. Results from a national standardized achievement/aptitude test predictive of the ability to complete a graduate program successfully. These tests include the Graduate Record Examination (target score of 146 verbal and 141 quantitative, 3.5 analytical writing) or the Miller Analogies Test (target score of 397). Scores must be less that 5 years old at the time of admission.
4. Candidates must pass the GACE Basic Skills Assessment or meet the exemption criteria specified at www.gapsc.com prior to admission.
5. A $25 application fee. (Application fee is waived for current and former Mercer students.)
6. In addition to the above materials, candidates must submit a completed Application to Teacher Candidacy for full admission. (This application is separate from the application to the M.A.T. program.) Candidates may be admitted on a conditional basis for one semester only prior to submitting acceptable test scores.

Progression Policy
In order for a candidate to continue in the M.A.T. program, he/she:
1. Must meet and maintain all requirements for full admission to the program.
2. Must earn a B or higher in all graduate education courses.
3. May repeat only two education courses. An education course may be repeated only one time. A certification candidate may not re-take an equivalent class at another college in order to replace a grade earned at Mercer.
4. Must have positive recommendations from each field experience in order to advance in the sequence of required field experiences. Field experience placements must meet all diversity of placement criteria.
Candidate for Certification

In order to be recommended for certification, an M.A.T. candidate must:

1. Have successfully met all Progression Policy criteria.
2. Have a positive recommendation from student teaching or internship.
3. Have successfully completed all program/degree requirements.
4. Have successfully completed Portfolio requirements.
5. Have successfully passed the appropriate GACE Content Assessments and have submitted score reports to the appropriate Certification Office.
6. Have met all state requirements for certification.

Secondary Education M.A.T. Program

The Secondary Education Master of Arts in Teaching program is designed to offer a comprehensive study of the specialized skills needed to teach and support students in grades 6-12. The program offers a wide scope of course content that focuses on theoretical and pedagogical issues while incorporating research, assessment, and technology integration. Diverse field experiences throughout the program help to prepare teachers to support the diverse needs of students. Having completed this program of study, the candidate will become a transforming practitioner and a reflective professional who understands and supports effective and dynamic secondary grades learning environments.

Student Learning Outcomes:

Content and Process: To Know

Upon completion of the Secondary Education Master of Arts in Teaching Program, the candidate will:

- Understand the social, behavioral, emotional, cognitive and physical characteristics and needs of the adolescent and how environments to support these needs are developed and maintained. (Understanding)
- Acquire a broad scope of knowledge base about secondary curriculum design, development and implementation. (Understanding)
- Understand and appreciate the key concepts and organization of secondary level education. (Understanding)
- Understand how students differ in their approaches to learning and how the learning environment can be adapted to meet the diverse needs of secondary education. (Diversity)

Application: To Do

Upon completion of the Secondary Education Master of Arts in Teaching Program, the candidate will:

- Design and implement an integrated, developmentally appropriate curriculum that considers the social, behavioral, emotional, cognitive and physical nature and needs of secondary students. (Practicing, Application of Knowledge, and Engagement)
- Demonstrate competency in developing and implementing a wide variety of formative and summative assessment strategies. (Practicing)
• Integrate research based strategies and instructional technology effectively into all components of the secondary school curriculum. (Research, Application of Knowledge, & Engagement)

• Utilize the effective teaching pedagogy to make connections among academic knowledge and the cultural influences of the student, school, and community. (Practicing, Application of Knowledge, & Engagement)

Disposition: To Be
Upon completion of the Secondary Education Master of Arts in Teaching Program, the candidate will:

• Continually seek to be reflective, to evaluate personal development, and to find opportunities to grow professionally and develop emerging leadership qualities. (Reflection and Leadership)

• Develop the ability to foster relationships with school colleagues, parents, community and agencies to promote and advocate for the learning and well being of the adolescent. (Collaboration and Advocacy)

Program of Study for the Secondary M.A.T.

Degree Requirements
37 graduate hours; 6 undergraduate hours

Summer I
EDUC 220 Foundations of Education (3 hrs.)
EDUC 283 Introduction to Special Education (3 hrs.)
EMAT 620 Adolescent Development & Learning (3 hrs.)
EMAT 624 Curriculum, Instruction, & Planning for SEC (co-requisite with EMAT 601) (3 hrs.)
EMAT 601 Initial Field Placement (co-requisite with EMAT 624) (1 hr.)

Fall
EMAT 642 Content Area Reading: Literacy Development for MGE/SEC (3 hrs.)
EMAT 608 Professional Practicum or EMAT 609 Mentored Practicum (3 hrs.)
One of the following methods classes based on field of certification:
EMAT 645 Teaching of English (3 hrs.)
EMAT 666 Teaching Math in MGE/SEC (3 hrs.)
EMAT 682 Teaching Social Science (3 hrs.)
EMAT 672 Teaching Science for MGE/SEC (3 hrs.)

All of the above courses must be completed with a B or better prior to student teaching/internship.

Spring
EMAT 611 Student Teaching or EMAT 612 Internship (9 hrs.)

Summer II
EMAT 689 Educational Assessment and Research (3 hrs.)
EDUC 625 Culturally & Educationally Responsive Pedagogy (3 hrs.)
EDUC 618 Issues of Diversity: Language, Cognition, & Culture (3 hrs.)
DOCTOR OF PHILOSOPHY DEGREE IN CURRICULUM AND INSTRUCTION

The Ph.D. in Curriculum and Instruction program reflects those societal changes that are placing an ever increasing emphasis upon the evolving role of the professional educator. While traditional perspectives position the educator as an “expert teacher,” Mercer University recognizes the importance of preparing doctoral level students as Transforming Curriculum and Instructional Leaders. Based on this recognition, the Ph.D. Curriculum and Instruction program is designed to prepare transforming curriculum and instructional leaders for local, state, and national levels.

Goals and Program Outcomes of the Curriculum and Instruction Ph.D. Program

1. **To prepare researchers for university, P-12, and political arenas.**
   a. The candidate uses knowledge in relation to curriculum, instruction, and/or teacher education. (To Know)
   b. The candidate informs and educates those involved in making governmental policies and regulations at local, state, and/or national levels to support and improve curriculum and instruction. (To Do)
   c. The candidate systematically reflects, both informally and formally, on the relationships between research and practice. (To Be)

2. **To enhance candidate knowledge of the learner.**
   a. The candidate extends his/her knowledge of the cognitive, social/emotional, physical, and aesthetic development of the learner. (To Know)
   b. The candidate advocates for the cognitive, social/emotional, physical, and aesthetic development of the learner in a variety of ways. (To Do, To Be)

3. **To develop curriculum leaders.**
   a. The candidate will broaden his/her understanding and knowledge of the historical, philosophical, and theoretical foundations of planning, implementing, and evaluating curriculum. (To Know)
   b. The candidate will articulate his/her philosophical and theoretical curricular position in multiple ways; understand the political and theoretical contexts for planning, implementing, and evaluating curriculum; and provide curriculum leadership at various levels (e.g., local, state, and national). (To Do, To Be)

4. **To develop instructional leaders.**
   a. The candidate will construct appropriate and accurate knowledge of instructional strategies and techniques that incorporates critical analysis of current research and pedagogical approaches. (To Know)
   b. By demonstrating critical thinking and problem solving among educators, community agencies, and families, the candidate will provide instructional leadership for pedagogically sound and innovative practices in teaching. (To Do, To Be)

**Admission Requirements**

Candidates who are admitted to the Ph.D. in Curriculum and Instruction program should represent the highest in academic standards. Not all qualified applicants will be accepted. All admission requirements must be met with required documents on file prior to registration for the first course. The Ph.D. program in Curriculum and Instruction is offered as a cohort model, with new cohorts admitted each academic year.

1. A completed Ph.D. in Curriculum and Instruction application form.
2. A copy of a teaching certificate at or above the master’s level (preferred but not required).
3. A current vita or resume.
4. Two official copies of all transcripts of your academic work.
5. A master's degree from a regionally accredited institution with a GPA of 3.5 accrued from previous graduate work.
6. Results from a national standardized achievement/aptitude test predictive of the ability to complete a graduate program successfully. For the doctoral program, the test is the Graduate Record Examination (target score of 151 verbal, 151 quantitative, 4.0 analytical writing for exams taken after August 2011; 1100 verbal quantitative combined and 4.0 analytical writing for pre-August 2011 exams). Scores must be less than six years old at the time of admission. GRE scores are not the sole criteria; applicants with scores lower than the target are encouraged to apply and will need to provide stronger evidence of the ability to complete doctoral courses and independent research.
7. Three professional letters of recommendation.
8. A $35.00 non-refundable admissions processing fee made payable to Mercer University.
9. Participation in a required interview with program faculty.
10. A signed and dated narrative of career and academic goals and a writing sample to be completed at the interview.
11. A minimum of three years' teaching experience (preferred but not required).

*NOTE: Completion of the program and a passing score on the GACE Content Assessment for Curriculum and Instruction will lead to eligibility for a certificate upgrade to an S-7 in Curriculum and Instruction for those who currently hold valid clear renewable certification. The degree is approved for certification only for those who are currently certified and does not lead to initial certification.

Degree Requirements – 63 semester hours

**Ph.D. C & I Core (36 semester hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>EDCI 805</td>
<td>The Transforming Curriculum and Instructional Leader</td>
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<tr>
<td>EDCI 815</td>
<td>History of Curriculum</td>
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<td>EDCI 819</td>
<td>Student Cognition and Motivation</td>
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<tr>
<td>EDCI 826</td>
<td>Changing Views of Learner Assessment</td>
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<td>EDCI 835</td>
<td>Curriculum Theory</td>
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<td>EDCI 839</td>
<td>Instructional Theory and Practice</td>
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<td>EDCI 841</td>
<td>Curriculum Evaluation and Design</td>
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<td>EDCI 845</td>
<td>Curricular and Instructional Technology</td>
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<td>EDCI 848</td>
<td>Pedagogical Needs of the Learner</td>
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<tr>
<td>EDCI 866</td>
<td>Paradigms in High Education for Curriculum and Instruction</td>
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<tr>
<td>EDCI 867</td>
<td>Advocacy and Social Justice through Curriculum and Instruction</td>
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<tr>
<td>EDCI 873</td>
<td>Seminar on Curricular and Instructional Leadership</td>
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**Ph.D. C & I Research Block (15 semester hours)**

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<th>Course</th>
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<tbody>
<tr>
<td>EDCI 807</td>
<td>Foundations of Educational Research</td>
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<tr>
<td>EDCI 811</td>
<td>Quantitative Research Methodology</td>
</tr>
<tr>
<td>EDCI 812</td>
<td>Qualitative Research Methodology</td>
</tr>
<tr>
<td>EDCI 813</td>
<td>Advanced Inferential Statistics</td>
</tr>
<tr>
<td>EDCI 851</td>
<td>Advanced Research Design</td>
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</tbody>
</table>
Ph.D. C & I Dissertation (12 semester hours)

EDCI 809 Doctoral Seminar One
EDCI 817 Doctoral Seminar Two
EDCI 837 Doctoral Seminar Three
EDCI 843 Doctoral Seminar Four
EDCI 871 Doctoral Seminar Five
EDCI 875 Doctoral Seminar Six

Continuous Registration for Dissertation Credits

Doctoral candidates must be registered for dissertation credits during any semester in which they use university facilities or the professional time of faculty members while the dissertation work is in progress. If the candidate uses university personnel or services he/she must register for the three (3) semester course, EDCI 881 Independent Study and Research. If the candidate does not complete the dissertation during the semester in which the candidate defends the dissertation, then the candidate must register for EDCI 881 Independent Study and Research during each semester thereafter until the candidate submits final copies of the dissertation.

Exit Criteria for the Doctor of Philosophy Degree in Curriculum and Instruction

A dissertation is required of all candidates for the Doctor of Philosophy degree. Candidates who are writing a dissertation should obtain, from the appropriate program director, a copy of the regulations for preparing and submitting a dissertation. These regulations should be followed carefully in preparing the manuscript. After approval by the appropriate committee within the Tift College of Education, a dissertation should be submitted to the chief academic officer of the University, accompanied by a receipt indicating payment of all applicable graduation and dissertation fees.

GRADUATE EDUCATIONAL LEADERSHIP PROGRAMS
Conceptual Framework: The Transformational Leader

TO KNOW

To Know the foundations of the education profession, content bases for curricula, and characteristics of diverse learners. The Transformational Leader:

1. Demonstrates knowledge of the philosophical, historical, sociological, legal, and psychological foundations of education.
2. Demonstrates leadership and expertise in the content bases for curricula, the appropriate uses of technology, good communication skills, and effective pedagogy.
3. Shows leadership and 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 educational leader in encouraging the planning and implementation of well-integrated curricula using developmentally appropriate and culturally responsive instructional strategies, materials, and technology. The Transformational Leader:
1. Plans, implements and assesses a well-integrated developmentally appropriate, and culturally responsive school vision that is well grounded in pedagogical and psychological theory.

2. Leads educators to individualize, differentiate, and adapt instruction to meet the needs of diverse and special needs learners.

3. Leads educators to use a wide variety of methods, strategies, technology, and materials.

4. Develops, articulates, and implements a vision that promotes a positive culture, provides effective programs, applies best practices, and helps to develop the professional growth of all personnel.

5. Manages the organization, operations, and resources in a way that promotes a safe, efficient, and effective environment.

TO BE

To Be a reflective, collaborative, and responsive decision-maker, facilitator, and role model within the organizational, community, and global environment. The Transformational Leader:

1. Uses feedback, reflection, research, and collaboration to enhance leadership performance, make decisions, develop and modify leadership skills, 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 by collaborating and responding to diverse community interests and needs, and by mobilizing community resources.

Educational Leadership Program Outcomes

Candidates who complete the graduate degree programs in educational leadership are leaders who will be able to promote the success of ALL by:

1. Facilitating the development, articulation, implementation, and stewardship of a vision that is shared and supported by all. To Know

2. Advocating, nurturing, and sustaining a culture and programs conducive to learning and professional growth. To Know and To Do

3. Ensuring management of the organization, operations, and resources for a safe, efficient, and effective environment. To Know and To Do

4. Collaborating and responding to diverse interests and needs, and mobilizing community resources. To Know, To Do and To Be

5. Acting with integrity, fairness, and in an ethical manner. To Be

6. Understanding, responding to, and influencing the larger political, social, economic, legal, and cultural context. To Know, To Do and To Be

7. Synthesizing and applying program knowledge and skills through substantial, sustained, standards-based work in real settings. To Know, To Do and To Be
MASTER OF EDUCATION IN HIGHER EDUCATION LEADERSHIP

The M.Ed. in Higher Education Leadership aligns with the conceptual framework of the college, The Transformational Leader. In response to the lack of national standards for the preparation of higher education leaders, faculty developed the Mercer University Standards for Higher Education Leadership, a set of 13 standards with 61 embedded elements, to guide the design of this program. The M.Ed. program is designed for individuals who are seeking careers as directors, coordinators, managers, or supervisors in higher education at the mid-administration or mid-management level. Examples include Director of Financial Aid, Director of Housing, Director of Intercollegiate Athletics, Director of Human Resources, Director of Academic Advising, Director of Safety, Coordinator of Student Support Services, or Supervisor of Maintenance. Candidates will have two options: Higher Education Leadership (HEDL) or Higher Education Leadership with Academic Advising Concentration (AAC). Further, candidates will choose from one of two tracks: Community College/Technical College or Four-year Private or Public Institution. An optional Concentration in Academic Advising may be simultaneously earned by candidates in either program track by completing a 5-course curriculum that complies with the academic coursework established by the National Academic Advising Association (NACADA). Individuals who already hold a master's degree or higher, but are not enrolled in the M.Ed. program, may apply to earn the non-degree Academic Advising Concentration.

Program Goals for the M.Ed. in Higher Education Leadership

In addition to the program outcomes for all educational leadership programs at Mercer, the primary objective of the Master's degree in Higher Education leadership is to provide students a broad-based, scholarly foundation in higher education organization, structure, administration, and governance to prepare them for entry-or mid-level leadership positions in postsecondary education. Students will select one of two higher education tracks: 4-year institutions or 2-year institutions, and their subsequent coursework will be tailored to that track. Graduates will emerge with a strengthened understanding of higher education institutions, prepared to assume leadership responsibilities in a variety of professional areas including admissions, student affairs, student services, advising, diversity, alumni relations and development, finance, human resources, facilities, athletics, and enrollment management.

Admission Requirements for the M.Ed. in Higher Education Leadership:

To be considered for full admission, applicants must:

1. Hold a bachelor's (or higher) degree in an approved field from an accredited university.
2. Submit two official copies of transcripts from ALL colleges/universities previously attended. Minimum GPA is 2.75.
3. Submit official GRE scores no older than 5 years from date of admission. Target scores: 146 verbal, 141 quantitative, 3.5 analytical writing (800 verbal quantitative combined for pre-August 2011 GRE exams). GRE scores are not the sole criteria for admission; applicants with scores lower than target may apply, but will need to provide strong evidence of his or her ability to complete graduate coursework and internship requirements.
4. Submit two official letters of recommendation (from former and/or current supervisors or instructors only).

5. Submit a $25 application fee (waived for current Mercer students and Mercer graduates).

6. Submit a signed and dated narrative of career and academic goals.

7. Be interviewed by program faculty.

M.Ed. in Higher Education Leadership Degree Requirements (36 semester hours)

The program requires 36 semester hours of coursework, in addition to an internship and the completion of an action research project. The program is delivered face-to-face and online.

Core Professional Studies (24 hours)

- EDEL 601 Introduction to Higher Education
- EDEL 604 Leadership Theories
- EDEL 609 Internship
- EDEL 610 Institutional Effectiveness and Assessment
- EDEL 611 Legal Issues in Higher Education
- EDEL 614 Leadership in Intercollegiate Athletics
- EDEL 695 Educational Research for Leaders
- COUN 613 Cultural Perspectives in Counseling

Leadership Track (either 4-year or 2-year)

4-year Institution Leadership (12 hours)

- EDEL 602 Contemporary College Student in 4-year institutions
- EDEL 607 Organization and Governance of 4-year Institutions
- EDEL 612 Human Resource Management in 4-year Institutions
- EDEL 616 Finance for Higher Education Leaders in 4-year Institutions

2-year Institution Leadership (12 hours)

- EDEL 603 Contemporary College Student in 2-year institutions
- EDEL 608 Organization and Governance of 2-year Institutions
- EDEL 613 Human Resource Management in 2-year Institutions
- EDEL 617 Finance for Higher Education Leaders in 2-year Institutions

OPTIONAL ACADEMIC ADVISING CONCENTRATION FOR DEGREE CANDIDATES

A degree candidate may opt to add-on the Academic Advising Concentration to his or her degree by following the information by tracks (4-year or 2-year) shown below:

4-year Institution Leadership with AAC add-on, instead of general track

- EDEL 606 Foundations of Academic Advising
- COUN 601 Career/Vocational Counseling
COUN 614 Lifespan Development
EDEL 602 Contemporary College Students in 4-year Institutions
COUN 613 Cultural Perspectives in Counseling

2-year Institution Leadership with AAC add-on, instead of general track
EDEL 606 Foundations of Academic Advising
COUN 601 Career/Vocational Counseling
COUN 614 Lifespan Development
EDEL 603 Contemporary College Student in 4-year Institutions
COUN 613 Cultural Perspectives in Counseling

ACADEMIC ADVISING CONCENTRATION ONLY (NO DEGREE)

Students admitted to the non-degree, add-on AAC program only, must successfully complete the following 5 courses:

Academic Advising Concentration Add-on Only (15 hours)
EDEL 602 Contemporary College Student in 4-year Institutions (OR EDEL603 Contemporary College Student in 2-year Institutions)
EDEL 606 Foundations of Academic Advising
COUN 601 Career/Vocational Counseling
COUN 613 Cultural Perspectives in Counseling
COUN 614 Lifespan Development

MASTER OF EDUCATION IN INDEPENDENT AND CHARTER SCHOOL LEADERSHIP

The M.Ed. in Independent and Charter School Leadership provides a tailored opportunity for potential leaders to prepare themselves specifically to lead in the unique environments of independent and charter schools. Candidates for this degree will explore the available literature related to leadership and to independent and charter schools. They will be required to reflect on their own professional practice and apply the theoretical knowledge drawn from the literature to the unique context of independent and charter schools. The program prepares students to enter leadership positions in the independent and charter school environments, including principal, assistant principal, headmaster, or directors of various departments, including admissions and student services. Further, the program can serve as professional development for those individuals who are currently employed in leadership positions at an independent or charter school who may have a background in areas other than education and have a need to understand the unique challenges of education to build upon their experience in the business or nonprofit sectors.
Program Standards for the M.Ed. in Independent and Charter School Leadership

The following standards have been adopted for the program to guide the development of candidates:

Standard 1: The School Mission

The school leader promotes successful development of each individual student in all areas consistent with the mission of the school. The leader accomplishes this by collaborating with the school's governing board, administrative leadership, faculty, and staff in a continual process of evaluation, articulation, stewardship and active implementation of the school's vision, mission, and derivative policies and practices. This standard encompasses all others, from a broad philosophical view, and an executive-level administrative view.

a) Candidates have a solid understanding of their school's founding principles, and articulate and promote these principles through the development of a shared vision and mission for the organization as a whole.

b) Candidates are sensitive to, and respond effectively to, changes in the organizational structure and among the school's stakeholders.

c) Candidates develop and implement valid methods to evaluate the effectiveness of, and to revise, the shared vision and mission, and derivative policies and practices, of the organization as appropriate.

d) Candidates develop and implement policies, procedures and practices in support of the organization's vision and mission.

Standard 2: The School Culture

The school leader understands that the culture of the school plays a crucial role in achieving the vision and mission of the organization. Consequently, the leader works to establish a culture in which all stakeholders are challenged to give their best in pursuit of the school's vision and mission, and in which all stakeholders are valued, treated with respect, and made to feel appreciated.

a) Candidates establish an organizational culture that is focused on the promotion of the vision and mission of the school through adopted policies and practices.

b) Candidates establish an organizational culture that promotes trust, respect, and professionalism among all stakeholders, including members of the governing board, parents, administrators, faculty, staff and students.

c) Candidates establish and maintain high behavioral expectations for students, in pursuit of social and emotional growth per se, as well as in support of a challenging academic environment.

d) Candidates establish and maintain a culture that promotes personal responsibility, honesty, and ethical behavior generally, and particularly in support of any religious or philosophical standards of the organization.

e) Candidates communicate and promote the established school culture to the public clearly, honestly, and in a manner that effectively promotes the vision and mission of the organization.
Standard 3: The School Resources and Constituency

The school leader understands and accepts the challenges inherent in operating an independent school; that is, one that does not rely on traditional governmental funding or student assignment policies to operate. To meet these challenges, the leader must generate sustainable funding sources by offering a marketable educational program at an acceptable price, and by developing secondary sources such as gifts, endowments, etc. It is of particular importance that the leader ensures that the financial dealings are carried out in accordance with applicable law.

a) Candidates establish and maintain an effective marketing and recruitment strategy to attract potential students who fit the school's targeted profile.

b) Candidates develop and implement policies and practices leading to the matriculation and retention of accepted students.

c) Candidates effectively attract and obtain financial resources from various sources in support of the organizational vision and mission.

d) Candidates maintain effective relationships with professional associations, regulatory agencies, and local community organizations as appropriate.

Standard 4: Management of the School Resources

The school leader accepts responsibility for ensuring that the resources belonging to the organization are employed for their intended use, and that this is done in an efficient manner in order to maximize their utility. The maintenance of an orderly school environment is fundamental for success, and well-planned processes are fundamental to an orderly environment.

a) Candidates develop and implement personnel practices that lead to the maintenance of a faculty and staff which effectively and efficiently supports the vision and mission of the school.

b) Candidates implement practices that support the efficient acquisition and use of financial assets, including tuition revenues, endowments, investments, grants, etc.

c) Candidates manage and maintain the school's property, including real estate, the physical plant, and tangible assets.

d) Candidates manage the distribution, use of, and responsibility for school assets related to the learning program, such as teaching materials, technology assets, athletic and band equipment, and items used in extra-curricular clubs and organizations.

e) Candidates ensure that the management of organizational assets is carried out in compliance with applicable legal and ethical standards.

Standard 5: The Learning Program

The school leader understands that the learning program is the very essence of the organization-its raison d'être. The learning program in an independent school includes the plan for student growth in academics, as well as growth in social, emotional and, when it is a part of the school's mission, spiritual realms. Consequently, the school leader must be knowledgeable of the relevant literature and be able to communicate and apply this knowledge to others. He or she spends the majority of his or her time and energy supporting the learning program, and leading others to focus their time and energy to do likewise. This function of the leader involves not
only compliance with applicable regulatory and accreditation standards, but with striving to lead the school to achieve at levels much higher than mere acceptable baselines.

a) Candidates develop, implement, and evaluate the learning program in a continuous improvement cycle, so that all organizational activities support the vision and mission of the school. This includes identifying and prioritizing the separate, but closely related, concepts of academic, social, emotional, and (consistent with the school's mission) spiritual growth.

b) Candidates are familiar with, and rely upon, the literature related to the growth and development of Children and young adults, as well as that related to appropriate learning outcomes, and to plan and implement appropriate growth opportunities.

c) Candidates develop, communicate, and supervise the curriculum program to provide each student with the opportunity to maximize his or her academic potential within the context of the organization's goals.

d) Candidates develop, communicate, and supervise the non-academic portions of the learning program to provide opportunity for students to grow socially, emotionally and (consistent with the school's mission) spiritually.

e) Candidates understand and employ scientifically valid methods of evaluating the school's learning program, and use these evaluation data to inform the continuous improvement cycle.

f) Candidates identify professional development needs of the faculty, and provide resources and opportunities for these needs.

g) Candidates ensure that the learning program complies with applicable state and federal laws and regulations.

Standard 6: Leadership Dispositions

The school leader understands that knowledge and skills alone are not enough to make one a leader. Rather, it is who a school leader is personally that inspires others to follow. With this in mind, the leader commits to the crucial, ongoing work of developing his or her dispositions relevant to any leadership position.

a) Candidates seek and accept responsibility and accountability for all aspects of school activities appropriate to their roles.

b) Candidates model ethical behavior in their professional practice, consistent not only with broadly accepted norms, but also with identified moral, ethical and religious standards as may be required by the organization.

c) Candidates consistently relate to others in a respectful, professional manner in the context of their professional practice, and in their personal capacity to the extent that it affects the organization.

d) Candidates express themselves both orally and in writing in a clear, effective, and professional manner.

e) Candidates exhibit intellectual curiosity and self-reflection, and employ critical thinking in the context of their professional practice.
Standard 7: Practical Application of Learning (Internship)

a) The leader will demonstrate his or her knowledge, skills, and dispositions by completing a formalized internship designed around standards 1-6.

b) The internship will provide opportunities for the candidate to apply knowledge learned in coursework and develop leadership skills in an authentic school context. The internship will take place over a sustained period of time, for a prescribed number of hours, and involve a variety of knowledge, skills and dispositions from standards one through six.

c) The internship program will be developed cooperatively with the candidate, a faculty advisor, and an experienced leader who will directly supervise the internship.

d) Documentation of the internship will be required, as well as a final report of the student which describes how the experience helped him or her increase mastery of the relevant knowledge, skills, and dispositions.

e) Activities completed pursuant to the internship should be different from those associated with the candidate’s normal job duties, so as to provide opportunity for growth in new areas.

Admissions Requirements for the M.Ed. in Independent and Charter School Leadership

The program accepts students five times a year in August, October, January, March, and May. To be eligible to apply, an applicant must hold an undergraduate degree from an accredited university and is required to submit the following:

- A completed application for admission
- $25 non-refundable application fee
- Official GRE scores no older than 5 years. Target scores: 146 verbal, 141 quantitative, 3.5 analytical writing (Target score for tests taken prior to August 2011 is 800 verbal quantitative combined).
- Provide two official copies of all transcripts with a minimum GPA of 2.75
- A current vita or résumé
- Three official letters of recommendation; one must be from a supervisor
- A signed and dated narrative of career and academic goals
- Complete a writing sample.

International applicants should consult the university catalog or Tift College of Education website for additional requirements.

M.Ed. in Independent and Charter School Leadership Degree Requirements (36 semester hours)

The program requires 36 semester hours of coursework, including an internship, and the completion of a Capstone project. The curriculum includes the following courses:

EDEL 604 Leadership Theory
EDEL 621 Foundations of Independent Schools
EDEL 622 Managing School Resources in Charter and Independent Schools
EDEL 822 Collaborative Strategies: Strengthening Internal and External Relationships
Ed.S. IN EDUCATIONAL LEADERSHIP

The specialist degree in Educational Leadership aligns with the conceptual framework of the college, The Transformational Leader, and is correlated with the latest national standards in educational leadership, as established by the ELCC (Educational Leadership Constituent Council). The degree program includes two tracks: one for building-level P-12 school leaders and another for system-level P-12 school leaders. Two separate degree options exist: 1) degree-only (30 hours, does not lead to certification) and 2) performance-based (33 hours, leads to PL-6 certification eligibility).

Program Goals for the Ed.S. in Educational Leadership

1. To prepare building-level and system-level educational leaders for Georgia's schools. Research and experience indicate that principals and supervisors play a crucial role in the success of our schools. Genuine school improvement takes place in the local school or district setting. The opportunity to educate leaders who will give direction to public schools is significant and meaningful. Mercer University seeks to prepare dynamic building and system level leaders who will be transformational in the professional community.

2. To meet the growing demands for highly-skilled school leaders in Georgia. The need for highly skilled schools leaders is critical for Georgia's school systems.

3. To develop partnerships with public schools and agencies. Mercer University recognizes the importance of developing partnerships with other institutions and agencies to improve institutional and leadership development.

Program Eligibility

There are several different categories of eligibility for this program:

1. Applicants holding current clear renewable L6 or L7 leadership certification are eligible for the non-degree, performance-based internship-only option. Candidates in this program are required to complete a year-long performance-based internship by enrolling in 6 semester hours of EDEL645B (3 hours during the Fall semester, followed by 3 hours during the subsequent Spring semester). Upon successful completion, candidates are eligible to apply for performance-based certification (PL-6 or PL-7).

2. Applicants holding a degree at the Ed.S. (or higher) in Educational Leadership from an accredited college or university and certified as a Georgia educator are eligible to apply for non-degree, certification-only option. Candidates in this program are required to complete a year-long performance-based internship by enrolling in 6 semester hours of EDEL645B (3 hours during the Fall semester, followed by 3 hours during the subsequent Spring semester). Upon successful completion, candidates are eligible to apply for performance-based certification (PL-6 or PL-7).
3. Applicants holding a master’s degree in Educational Leadership from an accredited college or university and are a certified Georgia educator are eligible to apply for the Performance-based Ed.S. degree program. Candidates in this program are required to complete the 33-hour degree program, which includes a year-long performance-based internship. Upon successful completion on the program, candidates are eligible to apply for performance-based certification (PL-6).

4. Applicants holding current NL-5 certification are eligible to apply for the Performance-based Ed.S. degree program. Candidates in this program are required to complete the 33-hour core degree program, which includes a year-long performance-based internship. Upon successful completion of the program, candidates are eligible to apply for performance-based certification (PL-6).

5. Applicants holding current Georgia certification at the T5 (or higher) level are eligible to apply for the Performance-based Ed.S. degree program. Candidates are then required to complete the 33-hour degree program, which includes two pre-service courses (6 semester hours total) before beginning the 27-hour core program (which also includes a year-long performance-based internship). Upon successful completion on the program, candidates are eligible to apply for performance-based certification (PL-6).

There is also a **degree-only option** for applicants who do not meet performance-based eligibility (or choose not to pursue performance-based certification). This option leads to an Ed.S. degree in Educational Leadership, but does not lead to certification (unless the graduate already holds current L5 certification, in which case he or she may be eligible to upgrade to L6). Upon acceptance into the degree-only Ed.S. program, candidates are required to complete the 30-hour degree program, which does not include a performance-based internship. Upon completion, graduates of this program option would then meet performance-based eligibility (line 2 above) should they wish to pursue certification.

**Admission Requirements for the Ed.S. in Educational Leadership:**

In order to be eligible for the performance-based option, applicants must meet specific requirements set by the Georgia PSC.

Note: Application materials will be considered by program faculty, who will then make decisions regarding acceptance. All Tift College of Education programs adhere to a holistic review policy for admissions.

To be considered, applicants must:

1. Meet program eligibility standards as defined in the section above.
2. Hold a master’s (or higher) degree in an approved field from an accredited university.
3. Have completed at least 3 years of certified school experience.
4. Submit two official copies of transcripts from ALL colleges/universities previously attended. Minimum graduate GPA is 3.0.
5. Submit a copy of current Georgia (level 5 or higher) teaching and/or leadership certification.
6. Hold a school leadership role or position, as defined by the Georgia Professional Standards Commission (this must be verified by the school system). (Performance-based applicants only.)
7. Submit official GRE scores no older than 5 years. Target scores: 147 verbal, 143 quantitative, 4.0 analytical writing (900 verbal quantitative combined for pre-August 2011 GRE exams). GRE scores are not the sole criteria for admission; applicants with scores lower than target may apply, but will need to provide strong evidence of his or her ability to complete graduate coursework above the master's degree level, as well as rigorous internship requirements.

8. Submit a current vita or résumé.

9. Submit three official letters of recommendation; one of these must be from a school system supervisor.

10. Submit a $30 application fee (waived for current Mercer students and Mercer graduates).

11. Submit a signed and dated narrative of career and academic goals.

12. Complete a writing sample. (This can be completed at the same visit as the interview.

13. Be interviewed by program faculty

**Ed.S. in Educational Leadership Degree Requirements (33 semester hours for Performance-based candidates; 30 semester hours for Degree-only candidates)**

**Note:** Candidates who are admitted based on line 5 under the Program Eligibility section above must complete two 3-hour pre-service courses (EDEL 705 and EDEL 706, listed below) before enrolling in any of the following core courses.

**Professional Studies (21 hours)**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>EDEL 705</td>
<td>School Leadership Preservice I</td>
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<tr>
<td>EDEL 706</td>
<td>School Leadership Preservice II</td>
<td>3</td>
</tr>
<tr>
<td>EDEL 605</td>
<td>Leadership in Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>EDEL 615</td>
<td>Leadership in Today's Schools</td>
<td>3</td>
</tr>
<tr>
<td>EDEL 625</td>
<td>Managing the School Environment</td>
<td>3</td>
</tr>
<tr>
<td>EDEL 635</td>
<td>Assessment and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>EDEL 665</td>
<td>Leadership in Instructional Supervision</td>
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</tbody>
</table>

**Performance-based candidates select one of two tracks: Building-level or System-Level**

**Building Level Track (12 hours)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEL 703</td>
<td>The Principalship</td>
<td>3</td>
</tr>
<tr>
<td>EDEL 697</td>
<td>School, Community and Society</td>
<td>3</td>
</tr>
<tr>
<td>EDEL 645B</td>
<td>Internship II (performance-based internship hours - this 3-hour course must be taken during both Fall and Spring semesters of the final year)</td>
<td>6</td>
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</tbody>
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(Total hours)
System Level Track (12 hours)
EDEL 704  The Superintendency (3 hours)
EDEL 832  School Finance and Budgeting (3 hours)
EDEL 645B Internship II (performance-based internship hours - this course must be
taken during both Fall and Spring semesters of the final year) (6 total
hours)

Degree-only Ed.S. in Educational Leadership (30 hours)

Professional Studies (21 hours)
EDEL 605  Leadership in Curriculum (3 hours)
EDEL 615  Leadership in Today’s Schools (3 hours)
EDEL 625  Managing the School Environment (3 hours)
EDEL 635  Assessment and Evaluation (3 hours)
EDEL 645A Internship I (3 hours)
EDEL 655  School Law (3 hours)
EDEL 665  Leadership in Instructional Supervision (3 hours)

Degree-Only Option (9 hours)
EDEL 703  The Principalship (3 hours)
EDEL 697  School, Community and Society (3 hours)
EDEL 685  Technology for School Leaders (3 hours)

Exit Criteria for the Performance-based Specialist in Education Degree in
Educational Leadership
The exit criteria for the Ed.S. in Educational Leadership is participation in all annual
Leadership Academies during which candidates are enrolled, successful completion of all
required coursework, and successful completion of the LiveText Portfolio, and EDEL 645B
Internship II.

Doctor of Philosophy Degree in Educational Leadership
The Doctor of Philosophy (Ph.D.) degree in Educational Leadership complements other
graduate degree programs at Mercer University and is consistent with the mission and goals
of the Tift College of Education. The mission of the Educational Leadership program is to
promote the acquisition and development of skills, values, and motivation for growth in leader-
ship positions; thereby improving the entire educational segment of society. These leaders
will be knowledgeable in the foundations of educational thought, as well as in the sci-
ence, craft, and art of leadership. In addition, they will study the specialties appropriate to
their career goals and acquire the research and evaluation skills essential to both leader-
ship practice and scholarly inquiry. Candidates are given the choice to specialize in either
P-12 School Leadership or Higher Education Leadership. The program was designed to pro-
vide its candidates with a solid blend of educational theory, research, and practice. The pro-
gram’s conceptual framework, curriculum strands, and program outcomes provide all can-
didates with a 24 semester-hour core knowledge base, supported by qualitative and quan-
titative research strategies (15 semester-hours), and 24 semester-hours of specialization-
specific courses.
Goals of the Ph.D. Program in Educational Leadership

1. To provide an understanding of the importance of education in society and of the significance of leaders and the effects they have on society.

2. To enable candidates to gain higher-level skills necessary to pursue careers in leadership in schools, colleges and universities, corporations, and other educational agencies.

3. To provide opportunities for experienced leaders to improve the skills they possess.

4. To enable educational leaders to grow professionally throughout their careers by becoming self-initiating professionals who build upon knowledge of inquiry and motivation to renew their skills.

Admission Requirements

Candidates who are admitted to the Ph.D. program should represent the highest in academic standards. Not all qualified applicants will be accepted. Criteria for candidates applying for admission include:

1. A complete application packet for the Ph.D. in Educational Leadership

2. For P-12 School Leadership track applicants: copy of current NL-5 (or higher) certification from the Georgia Professional Standards Commission

3. For Higher Education Leadership track applicants: documentation of appropriate higher education experience

4. Target scores: 151 verbal, 151 quantitative, 4.0 analytical writing on the REVISED GRE; 1100 verbal/quantitative combined for pre-August 2011 GRE scores (GRE scores are not the sole criteria for admission; applicants with scores lower than the target may apply, but will need to provide strong evidence of his or her competence for completing rigorous doctoral coursework.

5. A current vita or résumé

6. Two official copies of all transcripts of academic work (minimum cumulative graduate GPA of 3.5 required)

7. Three professional letters of recommendation (one of these letters must be from a supervisor)

8. A $35 non-refundable admissions processing fee made payable to Mercer University

9. Completion of an in-person, onsite writing sample

10. Participation in an interview with program faculty, if invited

11. A signed and dated written narrative of career and academic goals

Applicants with incomplete application files will not be considered for admission. The Ph.D. in Educational Leadership is offered as a cohort model, with new cohorts admitted for the fall semester of each academic year.
Degree Requirements – 63 semester hours

Each course listed is 3 semester hours

Ph.D. Core (24 semester hours)
- EDEL 800 Advanced Leadership Theory
- EDEL 801 Organizational Theory and Behavior
- EDEL 820 Literature Review of Current Issues in Educational Leadership
- EDEL 830 The Ethics of Leadership
- EDEL 898 Dissertation I (3 hours)
- EDEL 899 Dissertation II (9 hours)

Ph.D. Research Block (15 semester hours)
- EDEL 810 Seminar in Research Methodology
- EDEL 811 Quantitative Research Methodology
- EDEL 812 Qualitative Research Methodology
- EDEL 813 Advanced Inferential Statistics
- EDEL 814 Topics in Advanced Research Methods

Professional Studies (24 semester hours) – P-12 School Leadership Track
- EDEL 821 Policies, Politics & Cultural Aspects of School Leadership
- EDEL 822 Collaborative Strategies: Strengthening Internal and External Relationships
- EDEL 823 Human Motivation Leadership
- EDEL 824 Legal Research and Analysis
- EDEL 825 Learning and Cognition in Curriculum and Instruction
- EDEL 831 Effective Human Resources Practices
- EDEL 832 School Finance and Budgeting
- EDEL 833 Facilitating Professional Learning and Development

Professional Studies (24 semester hours) – Higher Education Leadership Track
- EDEL 815 Assessment and Institutional Effectiveness
- EDEL 816 Comprehensive Planning in Higher Education
- EDEL 841 Higher Education Student Affairs
- EDEL 843 Higher Education Academic Affairs
- EDEL 844 Administration and Finance in Higher Education
- EDEL 845 Higher Education Law
- EDEL 846 Policy and Politics in Higher Education
- EDEL 850 Internship in Educational Leadership

Performance-Based (PL-7) Building Level or System Level Track Add-on Option

After completing all requirements of the Educational Leadership Ph.D. in P-12 School Leadership, candidates may complete the requirements to become eligible for PL-7 status by completing a year-long, internship. (See Internship II, EDEL 645B in the Ed.S section.) For admission into this PL-7 certification only option, candidates must have a job in school leadership, either system or building level; have passed all Georgia PSC-required assessments in Educational Leadership; and hold a current L-7 leadership certificate at the NPL level or higher.

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Academic Standards

Candidates for the Ph.D. in Educational Leadership degree must meet and maintain the following program standards:

1. A cumulative grade point average of 3.5 or above on a 4.0 scale is required to graduate.
2. No grade below a B may be used to satisfy degree requirements.
3. A course in which a candidate earns a C or lower may be repeated only once. Up to 6 semester hours of courses for graduate credit may be repeated. A candidate may not take an equivalent course at another university to replace a grade earned at Mercer.
4. All degree requirements must be completed within a six-year period.
5. 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.

Exit Criteria for the Doctor of Philosophy Degree in Educational Leadership

A dissertation is required of all candidates for the Doctor of Philosophy degree. Candidates who are writing a dissertation should obtain, from their graduate advisors, a copy of the regulations for preparing and submitting a dissertation. These regulations should be followed carefully in preparing the manuscript. After approval by the appropriate committee within the Tift College of Education, the dissertation should be submitted to the chief academic officer of the University, accompanied by a receipt indicating payment of all applicable graduation and dissertation fees.

COURSE DESCRIPTIONS

NOTE: course requirements may include field experience.

CURRICULUM AND INSTRUCTION (EDCI)

EDCI 805. The Transforming Curriculum & Instructional Leader (3 hours)
The purpose of this course is to develop an understanding of the roles of the Transforming Curriculum & Instructional Leader. These roles will be examined within the local, state, and national contexts of politics, education policy development, and policy implementation. Issues such as the nature of interest groups, political goals and strategies; external advocacy groups and organizations; and the role of the local school board, the state board of education, and the state legislature will be examined. Recent major educational reform efforts will be critiqued and potential future trends will be examined.

EDCI 807. Foundations of Educational Research (3 hours)
A study of research methods and statistics as applied to the field of education. This course emphasizes qualitative and quantitative methodological approaches; enables students to become more effective consumers of research; prepares students for subsequent and related courses; and provides a foundation for students to be able to conduct original research.

EDCI 809. Doctoral Seminar One (2 hours)
The candidate will demonstrate an understanding of the dissertation process (i.e., discuss prospectus, Qualifying Transition Point Assessment, proposal, selection of committee, IRS process, and dissertation). Reading and discussing research on teaching will support can-
didates’ beginning focus toward dissertation problem and questions. Graded: S (Satisfactory) or U (Unsatisfactory)

**EDCI 811. Quantitative Research Methodology** (3 hours)
*(Same as EDEL 811)*
In this course, students will explore the assumptions and methods of the quantitative approach in educational research. First, students will review the major concepts in the research process. Next, students will examine procedures for collection and analysis of quantitative data in education. The focus will be on enabling students to know when to apply different statistical procedures to answer research questions of interest. Students will explore inferential statistics, and use hypothetical data to conduct several inferential tests such as the t test, correlation coefficients, chi square, and ANOVA. Prerequisite: Seminar in Research Methodology or Foundations of Educational Research.

**EDCI 812. Qualitative Research Methodology** (3 hours)
*(Same as EDEL 812)*
The purpose of this course is to introduce qualitative research design and methods, particularly as they apply to the field of education. Through its readings and assignments, this course will equip you with the knowledge, skills, and ethics necessary to be professional and socially just qualitative researchers. One of the tenets of qualitative research is awareness of one’s own biases. We will address diversity issues (gender, race, religion, ability, sexual orientation, socioeconomic status, etc.) throughout the course as they relate to those biases and to ethical research. Prerequisite: Seminar in Research Methodology or Foundations of Educational Research, and Quantitative Research Methodology.

**EDCI 813. Advanced Inferential Statistics** (3 hours)
In this class, students will continue to develop their skills in using and interpreting inferential statistics. Students will become familiar with the following methods of data analysis: multiple regression, logistic regression, the general linear model (ANOVA, ANCOVA, FANOVA, Repeated measures, and mixed-design ANOVA), non-parametric analysis, MANOVA, exploratory factor analysis, categorical data analysis, and multilevel linear models. The emphasis will be on hands-on SPSS analysis and interpretation of quantitative education research data. After taking this course, students are expected to be highly competent producers and consumers of quantitative educational research.

**EDCI 815. History of Curriculum** (3 hours)
Examines the history of competing movements in American curricular thinking and the individuals who created them. Attention is given to the cultural and instructional contexts and the political climates and agendas prevalent at those times. Emphasis is placed on primary source readings and the position of curricular thinking within an evolving national educational system.

**EDCI 817. Doctoral Seminar Two** (2 hours)
The candidate will demonstrate an understanding of the dissertation process by identifying and writing a research problem and research questions supported by research on teaching readings and discussions. APA guidelines will be presented. Graded: S (Satisfactory) or U (Unsatisfactory)

**EDCI 819. Student Cognition and Motivation** (3 hours)
The course focuses on a social cognitive view of student learning. Examination of and research in the areas of students' knowledge structures, cognitive and self-regulated learning, cognitive and meta-cognitive reasoning, problem solving, and critical thinking provide a foundation for curriculum planning and instruction. Social cognitive and motivational topics include self-worth theory and expectancy-value models. An explicit connection links cognitive and motivational constructs theoretically and empirically.
EDCI 826. Changing Views of Learning Assessment (3 hours)
This course is designed to provide doctoral level candidates with the foundation for understanding the intricacies of student assessment. This course will focus on the educational assessment methods and procedures used in local, state, national, and international settings. For the purpose of decision making and program planning for students across ability levels, including those with learning needs and/or those from culturally or linguistically diverse backgrounds, students will investigate the aspects of the assessment process as it reflects commitment to professional integrity, intellectual stamina, social justice, and stewardship.

EDCI 835. Curriculum Theory (3 hours)
A study of the theoretical underpinnings of curriculum and influential curriculum theorists. Includes examination of the theoretical constructs of curriculum as a body of knowledge to be transmitted, as product, as process, and as praxis.

EDCI 837. Doctoral Seminar Three (2 hours)
The candidate will demonstrate an understanding of the dissertation process by demonstrating an ability to follow APA guidelines; demonstrating an understanding of the IRB application process; identifying the components of a prospectus; and, writing a pre-prospectus. Graded: S (Satisfactory) or U (Unsatisfactory)

EDCI 839. Instructional Theory and Practice (3 hours)
An in-depth exploration of the art and science of teaching. A study of how teaching methodology has developed from different historical moments and philosophical schools of thought, broadly conceived of as the transmission, constructivist, liberatory, and post-liberatory schools of thought. Specific attention is given to the work of a variety of educational theorists to understand teaching practices in schools.

EDCI 841. Curriculum Evaluation and Design (3 hours)
A study of curriculum assessment and evaluation principles, processes, approaches, and models, with a focus on the resulting impact on curriculum design and modification at the classroom, school, system, state, and national levels. The influence of societal trends will be examined.

EDCI 843. Doctoral Seminar Four (2 hours)
The candidate will demonstrate an understanding of the dissertation process. Expertise in the use of APA guidelines will be demonstrated. Graded: S (Satisfactory) or U (Unsatisfactory)

EDCI 845. Curricular & Instructional Technology (3 hours)
Addresses the needs of future scholars in the area of instructional technology. Candidates will gain an organized overview of current research, future possibilities and surrounding issues in the field of instructional technology. In-depth opportunities to review, interpret, and synthesize the literature relating to current and future trends in instructional technology will be provided.

EDCI 847. Pedagogical Needs of the Adolescent Learner (3 hours)
An in-depth examination of the research related to the pedagogical needs of middle and secondary learners. Includes study of appropriate assessment models and the resulting impact on curricular and instructional planning.

EDCI 848. Pedagogical Needs of the Learner (3 hours)
An in-depth examination of the research related to the pedagogical needs of learners. Includes study of appropriate assessment models and the resulting impact on curricular and instructional planning.
EDCI 849. Pedagogical Needs of the Early Learner (3 hours)
This course is designed to help educators plan and evaluate methods appropriate for assessing individual learning needs in a performance-based early childhood curriculum as well as constructing and evaluating a long-term instruction plan. This course (a) examines the importance of differentiating instruction for today's diverse student population; and (b) examines the issue concerning the purpose of school and looks at the role of motivation in student learning.

EDCI 851. Advanced Research Design (3 hours)
A study of research design models resulting in a proposal based on individual research interests. Provides an in-depth knowledge of research paradigms, promotes the development of a topic of interest, and supports the design of a quantitative and/or qualitative study. Prerequisites: Quantitative Research Methodology and Qualitative Research Methodology.

EDCI 866. Paradigms in Higher Education for Curriculum and Instruction (3 hours)
The study of significant issues, practices, and research associated with the paradigms of curriculum and instruction at the university level. Through the analysis of teaching and learning, the student will become better prepared to design curriculum and teach courses in higher education and for professional development. Insight will also be gained by exploring the historical roots of higher education, the evolutionary changes that have taken place and future trends in curriculum for universities and colleges, the curriculum of higher education, the examination of curriculum models that currently exist in higher education, the origins of educational research, teaching the adult learner, and the study of the teaching environment at the university level through the exploration and examination of higher education pedagogical models. Other issues related to positions in higher education will also be addressed, including such matters as tenure and promotion, advising, service, and disposition.

EDCI 867. Advocacy and Social Justice through Curriculum and Instruction (3 hours)
The course examines policies, issues, and practices related to the theory and practice of advocacy in the context of educational perspectives. Historical perspectives of advocacy will be examined as well as tracing the impact of advocacy upon education. Litigation and legislation will also be addressed. The examination of the theoretical framework related to critical social thought will be explored. Emphasis will be placed upon the impact of advocacy on behalf of marginalized groups and the role of educators in helping these groups to become empowered. The role of advocacy and its influence upon curriculum and instruction will also be studied.

EDCI 871. Doctoral Seminar Five (2 hours)
The candidate will actively engage in the dissertation process under guidance of the dissertation committee chair. Graded: S (Satisfactory) or U (Unsatisfactory)

EDCI 873. Seminar on Curricular and Instructional Leadership (3 hours)
Provides for analytical investigation of advanced topics in and research related to leadership of curriculum and instruction at the school, system, state, and national levels. The various leadership roles will be examined within the context of historical and current approaches to curriculum and teaching and to curriculum and teaching innovation. Additional topics include, among others, instructional supervision, coaching/mentoring, professional development, law, ethics, consultation and collaboration, partnerships, advocacy, conflict management, decision-making, and problem-solving. Internship and case analysis are emphasized to develop leadership skills.
EDCI 875. Doctoral Seminar Six (2 hours)
The candidate will actively engage in the dissertation process under guidance of the dissertation committee chair. Graded: S (Satisfactory) or U (Unsatisfactory)

EDCI 881. Independent Study and Research (3 hours)
Not to be counted as credit toward a degree. Students who are not enrolled in at least 6 hours of dissertation and/or course work, but who are actively working on a dissertation, consulting with the major professor, or using other resources of the university must enroll in this course each semester until the dissertation is completed. Graded: S (Satisfactory) or U (Unsatisfactory)

Educational Leadership (EDEL)

EDEL 601. Introduction to Higher Education (3 hours)
This course is designed as an introduction to the historical development of higher education from early colonial times to the present. Students will identify and explore global and domestic events that have impacted and have been impacted by the development of higher education in the United States and in other parts of the world. In addition, the course focuses on globally significant as well as unique aspects of US higher education, including electives, extra-curricular activities, and intercollegiate athletics.

EDEL 602. Contemporary College Students in 4-year Institutions (3 hours)
This course is designed as a comprehensive and in-depth exploration of the psycho-social development of today's college student. Students will learn about various student development theories and how those theories apply to the contemporary 4-year college student. In addition, the course focuses on factors that influence today's college student's choice of career, political interests, and values and ethics.

EDEL 603. Contemporary College Students in 2-year Institutions (3 hours)
This course is designed as a comprehensive and in-depth exploration of the psycho-social development of today's college student. Students will learn about various student development theories and how those theories apply to the contemporary 2-year college student. In addition, the course focuses on factors that influence today's college student's choice of career, political interests, and values and ethics.

EDEL 604. Leadership Theory (3 hours)
This course is provides an in-depth analysis of various leadership theories. Significant attention is devoted to students learning their own leadership styles and understanding how those styles potentially impact organizational effectiveness. Students will learn how to apply various theories to real-world situations.

EDEL 605. Leadership in Curriculum (3 hours)
This course provides a study of how philosophical underpinnings impact the design, construction, evaluation and revision of curriculum. Special attention is given to the instructional leader's role in the continuing process of curriculum development, selection, and evaluation.

EDEL 606. Foundations of Academic Advising (3 hours)
This course is designed to introduce the student to the various models of academic advising in higher education. In addition, students will learn about the history and foundation of academic advising and its role in assisting students in the matriculation process.
EDEL 607. Higher Education Organization and Governance of 4-year Institutions (3 hours)

This course is designed to provide students an overview of the various models of organization and governance in 4-year higher education institutions. The role of the chief executive and his/her relationship with Trustees will be examined. In addition, the various structures and configurations of Boards of Trustees will be examined. The role of faculty in campus governance will be explored. Also, the centrality of academics in the mission of a college or university is examined.

EDEL 608. Higher Education Organization and Governance of 2-year Institutions (3 hours)

This course is designed to provide students an overview of the various models of organization and governance in 2-year higher education institutions. The role of the chief executive and his/her relationship with Trustees will be examined. In addition, the various structures and configurations of Boards of Trustees will be examined. The role of faculty in campus governance will be explored. Also, the centrality of academics in the mission of a college or university is examined.

EDEL 609. Internship (3 hours)

This course allows students to engage in meaningful field experiences that directly relate to their career interests. Students will select an internship site that provides opportunities to expand their depth and breadth of knowledge and experience in their chosen concentration. A total of 150 contact hours is required for successful completion of internship.

EDEL 610. Institutional Effectiveness and Assessment (3 hours)

This course presents a comprehensive overview of the role, scope, and purposes of institutional effectiveness. The course explores the major functions of institutional effectiveness, including assessment, research, planning and budgeting, and accreditation and how they all relate to each other.

EDEL 611. Legal Issues in Higher Education (3 hours)

This course presents an overview of court cases and legal issues that impact governance and leadership in higher education. The course covers legal issues related to student conduct, faculty rights, and institution-student relationships.

EDEL 612. Human Resource Management in 4-year Higher Education Institutions (3 hours)

This course is designed to explore the role, responsibilities, and duties of the human resource function in 4-year colleges and universities. Human resources issues such as recruiting, screening, and hiring personnel are explored. In addition, legal issues involving affirmative action, Fair Labor Standards Act (FLSA), disability, age and sex discrimination will be explored.

EDEL 613. Human Resource Management in 2-year Higher Education Institutions (3 hours)

This course is designed to explore the role, responsibilities, and duties of the human resource function in 2-year colleges and universities. Human resources issues such as recruiting, screening, and hiring personnel are explored. In addition, legal issues involving affirmative action, Fair Labor Standards Act (FLSA), disability, age and sex discrimination will be explored.

EDEL 614. Leadership in Intercollegiate Athletics (3 hours)

This course provides an in-depth understanding of the role of intercollegiate athletics, including its historical development and its contemporary impact on modern colleges and universities. A major emphasis of the course is to provide students the opportunity to
become knowledgeable of how athletic departments operate, including administrative structure, recruitment of student athletes, NCAA compliance, Title IX compliance and resource development and distribution.

**EDEL 615. Leadership in Today’s Schools** (3 hours)
This course is a study of current organizational and leadership theories in education and an examination of professional competencies needed in leadership positions with application to actual school situations.

**EDEL 616. Finance Management in 4-year Higher Education Institutions** (3 hours)
This course examines the methods and procedures for generating and allocating financial resources in 4-year colleges and universities. Specific attention will be devoted to how private and public institutions generate income and the rules for allocating those resources. In addition, students will learn how to create a budget utilizing the various elements of a revenue and expenditure budget.

**EDEL 617. Finance Management in 2-year Higher Education Institutions** (3 hours)
This course examines the methods and procedures for generating and allocating financial resources in 2-year colleges and universities. Specific attention will be devoted to how private and public institutions generate income and the rules for allocating those resources. In addition, students will learn how to create a budget utilizing the various elements of a revenue and expenditure budget.

**EDEL 621. Foundations of Independent Schools** (3 hours)
This course provides a study of the history and various philosophical foundations of independent schools. Students will learn about the various models of independent schools, their funding sources, their goals, and their impact on students and society.

**EDEL 622. Managing Resources in Charter and Independent Schools** (3 hours)
This course provides a general introduction to and overview of the financial management practices and problems of independent and charter schools. Specific topics will include financial accounting; budgeting/resource allocation; cost containment and retrenchment; tuition revenues; endowments; investments; grants and strategy development/strategic planning. In addition, issues related to real estate acquisition/management and acquisition and management of tangible assets will be explored.

**EDEL 623. Leadership of the Extra-Curricular Program in Charter and Independent Schools** (3 hours)
This course is designed to inform candidates about the various extra-curricular activities that take place in independent schools, with a focus on management of resources related to those activities and effective processes for managing them. Topics will include regulatory compliance for competitive activities, staffing, financial management, supervision, etc.

**EDEL 624. Legal and Ethical Requirements of Independent School Leaders** (3 hours)
This course provides the candidates with an overview of the legal system as it relates to independent schools. Candidates will study applicable statutory and case law in order to gain a practical understanding of legal principles. Further, candidates will explore ethical systems and consider their application to independent schools.
EDEL 625. Managing the School Environment (3 hours)
This course is a study of school business management and finance designed to provide the educational leader with basic principles of school management, accounting and purchasing procedures, school finance and information systems. Emphasis will be placed on equipping educational leaders with a foundation of leadership principles designed to enhance personnel management skills.

EDEL 635. Assessment & Evaluation in Today's Schools (3 hours)
This course provides an overview of assessment practices for improvement of student learning. A major focus will be placed on analysis of various assessment measures available to improve the teaching and learning process.

EDEL 645A. Internship I (3 hours)
This course provides a supervised administrative/ supervisory field experience in a placement appropriate to career objectives and approved by the faculty advisor (requires 80 clock hours). Includes seminars for debriefing and reflection.

EDEL 645B. Internship II (3 hours for 2 consecutive semesters for a total of 6 hours)
Prerequisite: only those candidates admitted into Performance-Based Educational Leadership programs may register. Internship II runs for one year; the first 3 hours are to be completed during fall semester and the remaining 3 hours during spring semester. This course provides a supervised administrative/ supervisory field experience in a placement appropriate to career objectives and approved by the faculty advisor. This year-long internship sequence includes seminars for debriefing and reflection. Candidates enrolled in the performance-based leadership track must complete this year-long intensive internship experience at either the building and/or system level. Special Fee.

EDEL 655. School Law and Ethics (3 hours)
This course provides an overview of relevant school law topics. The legal aspects of teaching and the rights, responsibilities, and ethics of professional service will be emphasized. Laws and standards that directly impact the work of teachers and school administrators will be examined.

EDEL 665. Leadership in Instructional Supervision (3 hours)
This course provides an in-depth study of leadership strategies for instructional supervision and improvement. Principles of human development theory along with research based adult learning and motivational theories will be applied. Special topics will include the development of comprehensive professional growth plans and the application of best practices for student learning.

EDEL 675. Foundations of Leadership (3 hours)
This course explores the phenomenon of leadership from a research as well as theoretical perspective focusing upon critical education outcome elements and the process elements which contribute to organizational effectiveness.

EDEL 685. Technology for School Leaders (3 hours)
This course is designed to provide educational leaders with the knowledge to develop practical approaches to planning, organizing, and directing the integration of technology into the school curriculum. Emphasis will be placed on the use of technology both for administrative and curricular purposes.

EDEL 695. Educational Research for Leaders (3 hours)
The purpose of this course is to examine research methodology and applied research. Emphasis will be given to the review and evaluation of educational research for school lead-
Each student will be required to design, implement, and evaluate an action research project.

**EDEL 697. School, Community, & Society**  
(3 hours)  
This course is designed to examine current key issues in today’s schools. Special emphasis will be given to developing school leaders who are community collaborators, networkers, and problem solvers.

**EDEL 701. Special Topics in Educational Leadership**  
(1-3 hours)  
Prerequisite: Program Chair approval.  
This course is a study of specific topics that meet the needs of non-doctoral students in educational leadership. This course is usually done as a directed individual study that will include special projects.

**EDEL 703. The Principalship**  
(3 hours)  
This course is designed for those candidates preparing for a career in building-level school leadership. This course is a general introduction to the principalship and contains material that is both theoretical and practical in nature. Candidates receive direction in developing the knowledge, skills and attitudes that foster instructional leadership within the school. The concepts of instructional leadership, management, human relations, and personnel development are detailed and internship assignments are integrated into course requirements.

**EDEL 704. The Superintendency**  
(3 hours)  
This course examines the role and responsibilities of the school superintendent as chief executive officer of a complex organization. The course focuses on the leadership roles of the superintendent and central office personnel in working with the board of education, building principals, school staff members, citizens of the community and political and educational leaders. Attention is given to the role of the system-level leaders in instruction and curriculum, personnel administration, finance and business management, and buildings and grounds. Internship experiences are integrated in course requirements.

**EDEL 705. School Leadership Preservice I**  
(3 hours)  
The course provides an introduction to topics most relevant to aspiring P-12 school leaders including the use and analysis of teaching and learning data to lead school improvement and theories of organizational leadership. Additionally, candidates will be introduced to various leadership styles, and learn to explore and identify their own.

**EDEL 706. School Leadership Preservice II**  
(3 hours)  
This course provides an overview of legal principles relevant to educators, with a focus on practical application of those principles by school administrators. Class sessions will include discussion of current law and ethics related topics in schools, practical application exercises, and a study of relevant court cases and Georgia State Board of Education decisions on matters of school law.

**EDEL 800. Advanced Leadership Theory**  
(3 hours)  
This course provides a study of advanced leadership theories, group dynamics, and human relationships theory used in educational leadership. Students will acquire skills in facilitation techniques including decision-making, problem-solving, conflict management, and evaluation strategies.

**EDEL 801. Organizational Theory and Behavior**  
(3 hours)  
This course is designed to expose candidates to the fundamental principles with which to understand human behavior inside educational organizations. The course examines various theories developed in an attempt to explain and predict faculty, administrator, staff and student behavior in an organizational context.
EDEL 802. Program Assessment, Evaluation and Design (3 hours)
The purpose of the course is to prepare candidates with the necessary knowledge, understanding, and skills to design and implement evaluations of programs. The primary objective of program evaluation is to provide feedback to decision-makers and other stakeholders and to determine whether a particular program is achieving desired outcomes.

EDEL 803. Special Topics in Educational Leadership (1-3 hours)
Prerequisite: program Chair approval.
This course is a study of specific topics that meet the needs of doctoral students in educational leadership. This course is usually done as a directed individual study that will include special projects.

EDEL 810. Seminar in Research Methodology (3 hours)
This course provides an introduction to problem identification and solving in educational leadership leading to the development of research problems and hypotheses for conducting systematic inquiries in the field, providing an overview of approaches, questions and problems posed in each of the major research paradigms. The emphasis will be on developing an understanding and appreciation of the different aspects of these research paradigms and the appropriate uses of each for inquiry in support of improved understanding of and practice in education.

EDEL 811. Quantitative Research Methodology (3 hours)
Prerequisite: EDEL 810.
In this course, students will explore the assumptions and methods of the quantitative approach in educational research. First, students will review the major concepts in the research process. Next, students will examine procedures for collection and analysis of quantitative data in education. The focus will be on enabling students to know when to apply different statistical procedures to answer research questions of interest. Students will explore inferential statistics, and use hypothetical data to conduct several inferential tests such as the t test, correlation coefficients, Chi Square, and ANOVA.

EDEL 812. Qualitative Research Methodology (3 hours)
Prerequisite: EDEL 810.
The purpose of this course is to introduce qualitative research design and methods, particularly as they apply to the field of education. Through its readings and assignments, this course will equip you with the knowledge and skills necessary for qualitative research. Diversity issues (gender, race, religion, ability, sexual orientation, socioeconomic status, etc.) will be examined throughout the course as they relate to biases and ethics.

EDEL 813. Advanced Inferential Statistics (3 hours)
Prerequisites: EDEL 810, EDEL 811, and EDEL 812.
In this class, candidates will continue to develop their skills in using and interpreting inferential statistics. First, students will explore multiple regression analyses and interactions in multiple regression. Next students will examine a variety of multivariate analyses, including cluster and factor analyses, discriminant analysis, MANOVA, and an introduction to causal modeling.

EDEL 814. Topics in Advanced Research Methods (3 hours)
The focus of this course will be a selection of advanced qualitative or quantitative research methods topics not available in EDEL 810, 811, 812, or 813. Topics offered will be those in highest demand and of greatest use to students in any given semester. This course is the final formal research course offered. The course is offered concurrently with the first Dissertation II (899) course; this is a time when students are working on Chapters 1-3 of the dissertation with their respective dissertation chairs and with faculty teaching the disserta-
tion course to make decisions about the methodology for the dissertation research proposal.

**EDEL 815. Assessment and Institutional Effectiveness**  
(3 hours)  
This course presents a comprehensive overview of the role, scope, and purposes of institutional effectiveness. The course explores the major functions of institutional effectiveness, including assessment, research, planning and budgeting, program evaluation, and accreditation and how they all relate to each other.

**EDEL 816. Comprehensive Planning in Higher Education**  
(3 hours)  
This course is designed to provide students with a thorough understanding of the strategic planning process in higher education. It is intended to help students understand the concept of strategic planning, the need for strategy in higher education, and the dynamics of university-based strategic planning. It includes a brief history of strategic planning, a review of the underlying theoretical perspectives of planning, identification and definition of organizational problems, the relationship between planning, research, evaluation, and effective organizational problem-solving, emerging challenges in higher education, basic models and steps of a strategic planning process, and adapting strategic planning to unique needs of higher education.

**EDEL 820. Literature Review of Current Issues in Educational Leadership**  
(3 hours)  
This course is a survey of the foundational and historical background of contemporary issues in the field of educational leadership. Students will research selected topics in order to gain a broad perspective of the field of leadership it applies to P-16 education. Students will evaluate relevant data and draw conclusions based upon the data and class discussions.

**EDEL 821. Policies, Politics & Cultural Aspects of School Leadership**  
(3 hours)  
The politics of education as the set of interactions that influence and shape the authoritative allocation of values in the society and its educational organizations will be addressed. This course focuses on understanding the social, cultural, and political conditions that are shaping educational reforms/decisions.

**EDEL 822. Collaborative Strategies: Strengthening Internal and External Relationships**  
(3 hours)  
This course will address the identification and utilization of community resources and the creation of partnerships, community linkages, and collaborative efforts to provide for the educational, cultural, health, and other needs of students and citizens in a community. This course is a study of the philosophy, principles, practices, and agencies and organizations involved in or influencing school community programs and initiatives. Special attention is focused on the role of school and community leaders in planning and implementing system-wide and building-level communications and involvement networks.

**EDEL 823. Human Motivation Leadership**  
(3 hours)  
The course equips prospective school leaders with a fundamental understanding of and explanations for factors and stimulants that motivate adults, adolescents, and children to behave in various ways in academic and community settings. The course will review historical, contemporary, theoretical and empirical literature to analyze the complex behaviors and interactions of humans and groups and how school leaders can use this information to develop paradigms for the development of effective organizations. Finally, the course explores the influence of cultural, ethnic, and gender issues on motivation.
EDEL 824. Legal Research and Analysis (3 hours)
This course will focus on the legal aspects of operating a school system. Topics for study will include, but not be limited to, federalism and the relative balance of state and federal responsibilities for public schooling, constitutional rights of students, teachers, and other system employees, state and federal statutory and common law requirements for public and private schooling, and local school board policy as a source of law for educators.

EDEL 825. Cognition and Learning in Curriculum and Instruction (3 hours)
This course is an analysis of curriculum and instructional models/theories, classroom/system applications, current issues/trends and their impact on educational leadership practices.

EDEL 830. The Ethics of Leadership (3 hours)
This course will examine the ethical dilemmas of leadership, the foundations and context of moral choice, the moral implications of decision-making within educational organizations and the impact upon staff morale, personal integrity and citizens. The course will make visible the ethical challenges and decisions criteria facing leaders and to explore the leadership role in sharing the organization's ethical culture. An emphasis will be made on critical thinking, normative decision making, and the role of values in educational leadership.

EDEL 831. Effective Human Resources Practices (3 hours)
This course provides an overview of the statutes that regulate human resources practices. The focus will be on the employment process to include job descriptions, advertising, recruiting, interviewing, selection, hiring, orientation, mentoring and retention of quality employees. In addition, compensation studies, salary schedules and benefit packages will be reviewed. A thorough knowledge of the evaluation process to include professional development plans and due process, as required by law, will be presented.

EDEL 832. School Finance and Budgeting (3 hours)
This course provides an in-depth study of school district finance and budgeting. The focus will include funding formulas, state allotment sheets, millage rates, bond issues and special taxes as they relate to school systems. The emphasis will be on creating a school district annual budget that supports the system's mission and goals.

EDEL 833. Facilitating Professional Learning and Development (3 hours)
Candidates will analyze and apply techniques used in leading professional development for the improvement of instruction. Emphasis will be given to needs assessments, focus groups, ongoing support, formative and summative evaluation, and budgeting.

EDEL 841. Higher Education Student Affairs (3 hours)
This course examines the role of student affairs administrators in student success in higher education. Candidates will consider the role of student affairs through study of theories, research, and methods, and candidates will apply this theory to current practice. The following student affairs topics will be explored: administrative environment; organization and management issues; essential skills and competencies of student affairs leaders; diversity; commitment to professional education; and the relationship between student and academic affairs.

EDEL 843. Higher Education Academic Affairs (3 hours)
The purpose of this course is to emphasize academic leadership concepts that relate to organizational structure, staff productivity, and leadership in the change process with respect to curriculum, instruction, faculty development, and faculty personnel policies in...
higher education. Special attention will be given to the teaching-learning environments and the factors that shape them.

**EDEL 844. Administration and Finance in Higher Education**  
(3 hours)  
This course involves an exploration of the functional areas/skills that contribute to the effective administration of higher education institutions. Emphasis will be placed on planning, leadership, personnel administration, enrollment management, and facility management. Current topics affecting college and university operations will be investigated.

**EDEL 845. Higher Education Law**  
(3 hours)  
This course will provide candidates with opportunities to study legal aspects of higher education. The candidates will be able to understand the current law through regulations and court cases; to become acquainted with appropriate legal resources and reference materials; and to become familiar with significant court decisions affecting higher education.

**EDEL 846. Policy and Politics in Higher Education**  
(3 hours)  
This course is designed to provide frameworks and approaches to the policy and politics of higher education. Policy making, policy development and policy implementation will be considered. The course will focus on, but will not be limited to, the governance structure and policy-making process in American higher education, current legislative developments, state political agendas, and the role of educating an increasingly diverse student population.

**EDEL 850. Internship in Educational Leadership**  
(3 hours)  
The internship course is designed as a culminating experience to coursework taken as a part of the doctoral program in educational leadership. Candidates will complete a sustained internship (minimum of 50 clock hours) in an educational setting under the guidance of an identified mentor.

**EDEL 897. Independent Study and Research**  
(3 hours)  
Prerequisite: EDEL 898 (3 hours), EDEL 899 (9 total hours), and program chair consent. Not to be counted as credit toward a degree. Students who have not completed the dissertation, but are actively working toward completion, consulting with the dissertation committee and/or other faculty, or using other resources of the university must enroll in this course each semester until the dissertation is completed. Graded: S (Satisfactory) or U (Unsatisfactory)

**EDEL 898. Dissertation I**  
(3 hours)  
This course is designed to assist students who are in the beginning of their formal dissertation research. Students are expected to have a working draft of the pre-proposal (Chapter 1: Introduction and Chapter 2: Review of Related Literature), prior to beginning this course. Emphasis will be placed on guiding students to clarify the overall structure and continuity of the research problem, question(s), purpose, and significance. Students will be required to orally defend the pre-proposal to faculty members, either at the end of this course or at the beginning of EDEL 899.

**EDEL 899. Dissertation II**  
(3 hours)  
Prerequisite: EDEL 898. Students enroll in this course for 3 consecutive semesters, for a total of 9 hours. This course is designed to provide guidance to students who are conducting dissertation research. The specific course activities will be based on the needs of individual students. Major requirements include: APA-formatted dissertation proposal, formal IRB approval, APA-formatted final dissertation, formal oral defense of the dissertation research at three distinct stages (pre-proposal, proposal, final). The course should NOT be viewed as a sub-
stitute for the advice and guidance students should solicit from their individual dissertation committee members.

**Education (EDUC)**

**EDUC 618. Issues of Diversity: Language, Cognition, and Culture**

This course provides the basis for understanding diversity by exploring the social, cognitive, and communicative roots of diversity: with a primary focus on how students learn to think and communicate within their home, community, and school environments.

**EDUC 625. Culturally and Educationally Responsive Pedagogy**

This course provides students with the theory, knowledge, and strategies to teach the culturally diverse and special needs population 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.

**Master of Arts in Teaching (EMAT)**

**EMAT 601. Initial Field Experience**

Prerequisites: Admission prior to the application periods, on-line field experience video and passing of the test (see link below), online application including the compliance with a criminal background check process, and Tort Liability Insurance coverage. [Link](http://education.mercer.edu/current/field-experiences/online-information-session.cfm).

This semester-long course provides teacher candidates a community or school-based placement early in the teacher preparation program during which they are expected to observe the learning and teaching environment, tutor individual students or small groups of students, and reflect on teaching experiences in this setting. Candidates are required to complete a minimum of 35 hours in their assigned placement, under the direction of a certified classroom instructor (or the equivalent, for community placements). Additionally, candidates must attend Initial Field Experience Orientation and all related seminars. Special Fee.

**EMAT 608. Practicum**

Prerequisites: Successful completion of EMAT 601, submission of on-line application, and compliance with the criminal background check process, and Tort Liability Insurance Coverage.

This course should be taken the semester prior to Student Teaching or Internship. This course provides a school-based teaching experience for teacher candidates. Candidates will be assigned a placement based on required cluster and diversity requirements, and will spend a minimum of 60-80 hours in the classroom over a semester. Candidates are required to attend Practicum Orientation and three seminars. The Teacher Education Handbook provides specific policies and requirements. Special fee.

**EMAT 609. Mentored Practicum**

Prerequisites: On-line application and submission of specified paperwork; full admission; successful completion of EMAT 601 and majority of coursework.

The Mentored Practicum is designed for those candidates who are employed in an approved accredited school setting on a non-renewable teaching certificate, and in a setting appropriate to the certification that the candidate is seeking. The candidate will complete this course in his or her own classroom, under the mentorship of a teacher assigned by the school and by a Mercer supervisor. Additional clock hours in other school settings
may be assigned in order for the candidate to meet diversity requirements for certification. Candidates are required to attend seminars, including orientation. The Teacher Education Handbook provides specific policies and requirements. Special fee.

EMAT 611. Student Teaching (9 hours)
Prerequisites: On-line application and submission of specified paperwork; successful completion of EMAT 608/609; completion of all coursework.
This course provides a full-day semester long teaching experience for teacher candidates. 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 Classroom Teacher and University Supervisor. Each Student Teacher will teach full-time for a minimum of three to five weeks. Candidates are required to attend student teaching orientation and three seminars. Specific policies and requirements are included in the Teacher Education Handbook. Special Fee.

EMAT 612. Internship (9 hours)
Prerequisites: On-line application and submission of specified paperwork; successful completion of EMAT 608/609; completion of all coursework.
The Internship is designed for candidates who are employed in an accredited and approved public or private school setting and are teaching on a non-renewable teaching certificate in an appropriate setting for which the candidate is seeking clear renewable status. Candidates are required to attend internship orientation and three seminars. Specific policies and requirements are included in the Teacher Education Handbook. Special Fee.

EMAT 620. Adolescent Development & Learning (3 hours)
The objective of this course is to integrate critical aspects of adolescent development and learning, and related learning theory. The course addresses adolescent cognitive development, social/emotional development, learning theories, classroom management, and discipline theories. Specific obstacles to learning and treatment approaches are also presented. Implications for students with exceptional and diverse backgrounds are discussed throughout the course.

EMAT 624 Curriculum, Instruction, & Planning for Secondary (3 hours)
This course is designed to help the beginning teacher candidate prepare to teach in a 6-12 setting. This course includes an orientation to curriculum studies as an area of research that affects middle and secondary schools. Candidates will learn and implement methods of curriculum design, assessment, units, lesson plans, and instructional strategies to meet the diverse needs of students in grades 6-12.

EMAT 642. Content Area Reading & Writing: Literacy Development for MGE/SEC (3 hours)
This course will focus on the development, use, and evaluation of language, concepts (specialized vocabulary), and critical thinking while reading text and writing to enhance learning. Attention will be given to the use of metacognitive strategies, including visual tools, so that all students can become engaged and active literacy learners.

EMAT 645. Teaching English (3 hours)
This course focuses on a study of how to teach English in secondary schools. Its perspective is student-centered, constructivist, developmental, inquiry based, and reflective. The course includes investigation of crucial issues such as: constructivist principles of learning, approaches to teaching grammar and writing, approaches to teaching literature, portfolios, censorship. Attention will be given to means of assessments, including authentic assess-
ment and to state and national standards for the English/Language Arts guide for improved pedagogy.

**EMAT 666. Teaching Mathematics in MGE & SEC (3 hours)**

This course provides an in-depth concentration on selected topics that are included in the middle and secondary curricula. Included are reflective thinking as related to the mathematics classroom; application and problem solving; error pattern diagnosis; pre-algebra; algebra; geometry; data collection, interpretation, and analysis; technology; evaluation alignment and techniques; and related NCTM Standards. Attention is given to enabling all students, including those who are exceptional, disabled, and culturally diverse, to become active learners of mathematics.

**EMAT 672. Teaching Science in MGE & SEC (3 hours)**

This course is designed to provide science content knowledge appropriate for middle and secondary education (grades 4-8 and 6-12). There will be an in-depth investigation of concepts of science, current science programs, instructional methods and technology and evaluation techniques. Emphasis will be placed on preparing teachers to incorporate appropriate science content, process skills, attitudes, and real-world applications into the science classroom. Effective ways to teach and assess students, including those with exceptionalities, disabilities, and cultural diversities, using the National Science Standards, will be modeled.

**EMAT 682. Teaching Social Studies in MGE & SEC (3 hours)**

This course provides a broad understanding of the teaching of the social sciences coinciding with awareness, understanding, and respect for cultural diversity in American society. Specifically, the course is designed (1) (To Know) to provide social studies content knowledge appropriate for middle and secondary education; (2) (To Do) model developmentally appropriate teaching methods as recommended by the National Council for the Social Studies, and (3) (To Be) explore the implications of social studies educational attitudes and values within our multicultural society.

**EMAT 683. Teaching Exceptional Learners (3 hours)**

This course presents a comprehensive examination of exceptional student categories and related issues. Typical physical, social, cognitive, and learning characteristics of exceptional students are presented. Teaching and intervention strategies are presented and discussed. Review and analysis of current exceptional education law and legal issues are conducted. This course includes and goes well beyond the minimum special education requirement for Georgia certification.

**EMAT 689. Educational Assessment and Research (3 hours)**

This course provides an introduction to educational assessment and research. It is designed to aid students in the acquisition of skills and knowledge required to create, administer, and evaluate assessments and become a competent consumer of educational research. The focus will be on preparation to implement educational assessment skills and action research in a field setting. Appropriate emphasis will be placed on the relevance of technological development in this area.
Townsend School of Music

Graduate Studies
C. David Keith, Dean/Professor
Stanley L. Roberts, Associate Dean/Professor
Douglas M. Hill, Director of Undergraduate Studies/Professor
Richard Kosowski, Director of Graduate Studies/Associate Professor

Graduate Faculty Members
Douglas M. Hill, C. David Keith, Martha Maione, and Stanley L. Roberts, Professors
Miburn Price, Visiting Professor
Ian Altman, Montgomery C. Cole, Carol Goff, Richard Kosowski, Jack Mitchener, Marcus D. Reddick, Christopher Schmitz, and Amy Schwartz-Moretti, Associate Professors
Julie Albers and Elizabeth Pridgen, Assistant Professors
Kathryn White, Visiting Instructor

Graduate Faculty Associate Members
Robert McDuffie, Distinguished University Professor of Music
Adrian Gnam, Artist-in-Residence
Becca Albers, Rachel Calin, Lawrence Dutton, David Halen, Hans Jorgen-Jenson, and Kurt Muroki, Visiting Artists
Nancy Rehberg and Marie J. Roberts, Senior Lecturers
Anne Armstrong, Eric Bubacz, Terence Cantwell, Tom Gibson, Jay Hanselman, Katherine Holland, Calista Koch, Jonathan Swygert, and Kelly Via, Lecturers
Lois Lantz and Lowen Marshall, Professor Emeriti

Mission Statement
The Townsend School of Music fosters excellence in musical learning within the context of a comprehensive university environment. Undergraduate and graduate studies prepare musicians for careers in performance, music education, church music, and musical scholarship.

Accreditation
The Townsend School of Music is an institutional member of the National Association of Schools of Music (NASM). The McAfee School of Theology is an institutional member of the Association of Theological Schools (ATS).

Artist Diploma
Program Description
The Artist Diploma is a non-degree program that admits only the artistically gifted and motivated students who have completed a baccalaureate degree in music. Because the Artist Diploma is a performance-enhancing program, the awarding of the AD is assessed on the attainment of a level of artistry commensurate with professional performance standards as determined by the Artist Diploma committee. This will be evaluated through at least one recital per year and through performances in chamber and major ensembles. The focus of the AD is to achieve the highest level of performance and to allow the student to develop in both artistry and professionalism. It is a two-year program that is structured to the individual student's needs and focuses on the practical aspects of musical performance.
Admission Requirements
To be accepted into the Artist Diploma program the applicant must:

- Have earned a baccalaureate degree from an accredited institution
- Submit a completed Application Form with a nonrefundable application fee of $100 (U.S.) payable to Mercer University. This fee must accompany the application
- Provide official transcripts of all academic records sent in a sealed envelope from all college and universities attended
- Submit a curriculum vitae (summarizing academic, performance, and employment information)
- Submit a repertory list of major performance area
- Present an audition demonstrating a high level of performance ability. All audition requirements will be parallel to those on the graduate-level audition requirements. A live audition is necessary for unconditional acceptance into the AD program. A student may receive a conditional acceptance into the program by submitting a videotape, compact disc, or DVD recording. However, a live audition must occur during the first month of residency in order to continue in the program. Specific audition requirements for each applied area can be found on the graduate admission page on the Townsend School of Music webpage: music.mercer.edu
- Submit official scores from TOEFL (if applicable). The proficiency level desired for qualified applicants whose native language is not English is a minimum TOEFL score of 80 IBT (internet based TOEFL), 213 CBT (computer based TOEFL), or 550 PBT (paper based TOEFL) or IELTS score of 6.5. A score of 22 is required on the verbal communications portion of the test.

Master of Music
The Townsend School of Music offers Master of Music degrees in conducting, performance, collaborative piano and church music.

Conducting (Choral or Instrumental)
The Master of Music in Conducting (MMC), offered by Townsend School of Music, allows exceptional musicians, who have completed an undergraduate degree in music, to pursue intensive graduate studies in conducting. Within the degree, the student will choose a specialty area in either Choral or Instrumental conducting. In addition, instrumental conductors choose a wind ensemble or orchestral area of emphasis. The area of emphasis reflects the type of private conducting study (wind ensemble or orchestral). All MMC students will have the opportunity for added study in choral, orchestral, or wind ensemble conducting.

NOTE: MMC students have the option of adding the designation "with an emphasis in Church Music" by selecting six elective credit hours in church music.

Performance (Vocal, Piano, Organ, Instrumental)
The Master of Music in Performance (MMP), offered by Townsend School of Music, allows exceptional musicians, who have completed an undergraduate degree in music, to pursue intensive graduate studies in performance. Concentrations include: Vocal, Organ, Piano and Instrumental Performance.
NOTE: MMP students have the option of adding the designation “with emphasis in Church Music” by selecting six elective credit hours in church music.

**Church Music (Conducting, Vocal, Piano, Organ, Instrumental)**

The Master of Music in Church Music (MMCM), offered by Townsend School of Music, is intended to allow talented persons, who have completed an undergraduate degree in music, to enter an intense period of graduate, professional study that will prepare them for the practice of church music ministry. Concentrations include: conducting, vocal performance, organ, piano, and instrumental performance.

**Collaborative Piano (Vocal or Instrumental)**

The Master of Music in Collaborative Piano (MMCP), offered by Townsend School of Music, is intended to allow talented pianists, who have completed an undergraduate degree in music to enter an intense period of graduate, professional study that will prepare them for a career in collaborative piano. This is distinct from an MM in Performance (Piano), in that piano performance is directed towards solo performance. A collaborative pianist requires a different focus in training, with an emphasis on accompanying and chamber music. Collaborative Piano graduate students will choose one of two areas of emphasis: Vocal or Instrumental. Advanced private study and literature classes distinguish the areas.

NOTE:: MMCP students have the option of adding the designation with an emphasis in Church Music by selecting six elective credit hours in Church Music.

**Admission to Graduate Study**

Admission to the Graduate Studies Area of Townsend School of Music is conducted by formal application and an audition in a performance area (voice, keyboard, instrumental, or conducting). The entire application and performance audition will be considered when making admissions decisions, and each piece of the process is important. In addition, applicants must submit an application fee, (TOEFL for International Students), official transcripts, and three letters of recommendation. The Graduate Studies Area of Townsend School of Music requires that all applicants have either a bachelor's degree in music or music education from an accredited institution in the United States or proof of equivalent training at a foreign institution of higher learning. Applicants are expected to have a record of undergraduate study and experience predicated of success in graduate study.

**International Applicants**

Qualified applicants from countries other than the United States of America will be eligible for admission into the program. International students follow the same admissions process as students from the United States, but must submit proof of English literacy skills by taking the TOEFL. A minimum score of 550 on the paper-based, 213 on the computer-based, or 80 on the internet based TOEFL is required or IELTS of 6.5. In addition, a score of 22 on the speaking section of the test is required. International applicants should be particularly mindful of the transcript requirement since transcripts from non-U.S. institutions frequently lack proof of conferred degree information. Non-English transcripts need to be translated by an official translating agency. If the applicant is admitted before receiving a degree and final transcripts, the applicant is required to present a final transcript documenting proof of degree to the Graduate School by the first day of class or a hold will be placed preventing the applicant from registering.
Diagnostic Examinations

At the time of the audition, the applicant will be required to take two diagnostic examinations: a theory examination and a music history examination. The results of both examinations will be factors to be considered for admission to the program. The results of the tests can be used for advising and may require some type of remediation. Study guides for the examinations are available on the graduate studies web page. As well, vocal performance and collaborative piano (vocal emphasis) graduate students will be given a language proficiency diagnostic test concerning the use of IPA for and the correct pronunciation of English, Italian, German, and French; conducting graduate students, in addition to the four languages listed above, will be given an IPA and pronunciation diagnostic examination in Latin (Roman Usage). Failure to meet language standards will result in the student taking undergraduate diction courses in the deficient language.

Residency Requirement

To qualify for the Master of Music degree programs, a graduate student must successfully complete at least 80% of the graduate coursework in residence and achieve a grade point average of at least 3.0. Successful completion of a graduate course requires a grade of C or higher.

Transfer Credit

Townsend School of Music will accept transfer credit from other institutions towards the Master of Music degree. Transfer of credit occurs after enrollment and must be approved by the Director of Graduate Studies in consultation with appropriate faculty members and Dean. Credit for graduate work transferred from other universities shall be allowed subject to the following provisions:

1. 20% of the required Mercer coursework (excluding internships, practica, and recitals) may be petitioned for transfer,
2. Coursework must be from an NASM accredited university,
3. Coursework must have been taken no more than 5 years prior to entrance in the graduate program.

Exceptions to this policy may be appealed to the Dean of Townsend School of Music.

Academic Warning, Probation, and Suspension

The first semester that a graduate student's semester and/or cumulative grade point average is below 3.0, the student will receive an academic warning. The second semester in which a graduate student is enrolled and his/her semester and/or cumulative grade point average is below 3.0, the student will be placed on academic probation. The graduate program director may specify academic conditions with which a graduate student on academic probation must comply to be able to register, such as courses to be taken, course-load limits, attainment of a specific semester grade-point-average, etc. A graduate student on academic probation who fails to meet conditions set by the graduate program director may be placed on academic suspension and barred from registering for classes for one or more semesters. A student who falls below six hours in any semester, is on academic probation, or does not have a 3.0 cumulative grade point average may lose his/her graduate assistantship or fellowship. The student may reapply to the graduate director the following semester for possible re-instatement of the assistantship or fellowship.
Readmission

A graduate student who withdraws from the University or who is suspended from graduate study must make a written request for readmission, addressed to the graduate program director.

Exit Requirements

All graduate degrees in music require the successful completion of course work, a graduate recital in the student's applied area of concentration, and comprehensive written and oral examinations. The applied recital is coordinated by the student's applied teacher, and evaluated by a three person graduate faculty panel. The comprehensive written and oral examinations are coordinated by the director of graduate studies and evaluated by a three person faculty committee.

Curriculum for the Master of Music in Conducting (Choral)

Major Area

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 640</td>
<td>Graduate Choral Conducting and Techniques</td>
<td>2</td>
</tr>
<tr>
<td>MUS 642</td>
<td>Applied Conducting</td>
<td>6</td>
</tr>
<tr>
<td>MUS 595</td>
<td>Graduate Ensemble</td>
<td>2</td>
</tr>
<tr>
<td>MUS 633</td>
<td>Survey of Choral Literature I (Early-Baroque)</td>
<td>2</td>
</tr>
<tr>
<td>MUS 634</td>
<td>Survey of Choral Literature II (1750-Present)</td>
<td>2</td>
</tr>
<tr>
<td>MUS 575</td>
<td>Graduate Recital</td>
<td>0</td>
</tr>
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</table>

Total Major Area 14 credits

Other Studies in Music

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 656</td>
<td>Analytical Techniques I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 605</td>
<td>Introduction to Graduate Studies in Music</td>
<td>3</td>
</tr>
<tr>
<td>MUS 620</td>
<td>Historical Study of Musical Styles and</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Literature</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Rotating Topics: Renaissance, Baroque,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Classical, Romantic, Twentieth Century and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>American Music)</td>
<td></td>
</tr>
<tr>
<td>MUS 650 or MUS 651</td>
<td>Composition/Arranging</td>
<td>2</td>
</tr>
<tr>
<td>MUS 638</td>
<td>Vocal Pedagogy</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Other Studies in Music 13 credits

Elective Studies in Supportive Areas

6 credits from among the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 560</td>
<td>Applied Voice</td>
<td>2</td>
</tr>
<tr>
<td>MUS 620</td>
<td>Historical Study of Musical Styles and</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Literature</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Rotating Topics: Renaissance, Baroque,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Classical, Romantic, Twentieth Century and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>American Music)</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
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</tr>
<tr>
<td>MUS 621</td>
<td>Service Playing</td>
<td>2</td>
</tr>
<tr>
<td>*MUS 631</td>
<td>Church Music Methods &amp; Technology</td>
<td>3</td>
</tr>
<tr>
<td>*MUS 632</td>
<td>Hymnology and Church Music Literature</td>
<td>3</td>
</tr>
<tr>
<td>MUS 637/639/636</td>
<td>Organ Skills (2 semesters), Piano Pedagogy (2 Semesters)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Pedagogy of Orchestral Instrument</td>
<td></td>
</tr>
<tr>
<td>MUS 641</td>
<td>Graduate Instrumental Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUS 642</td>
<td>Applied Conducting (not in area of specialization)</td>
<td>2</td>
</tr>
<tr>
<td>MUS 645</td>
<td>Survey of Orchestral Literature</td>
<td>2</td>
</tr>
<tr>
<td>MUS 646</td>
<td>Survey of Wind Ensemble Literature</td>
<td>2</td>
</tr>
<tr>
<td>MUS 650/651</td>
<td>Arranging/Composition or Orchestration (The alternate choice from the “Other Studies” area)</td>
<td>2</td>
</tr>
<tr>
<td>*MUS 652</td>
<td>Foundations of Christian Worship</td>
<td>3</td>
</tr>
<tr>
<td>MUS 655</td>
<td>Diction (3 semesters, 1 hour each semester)</td>
<td>3</td>
</tr>
<tr>
<td>MUS 657</td>
<td>Analytical Techniques II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 658</td>
<td>Counterpoint in the Style of the 16th Century</td>
<td>3</td>
</tr>
<tr>
<td>MUS 659</td>
<td>Counterpoint in the Style of the 18th Century</td>
<td>3</td>
</tr>
<tr>
<td>MUS 680</td>
<td>Special Topics in Music</td>
<td>3</td>
</tr>
<tr>
<td>*MUS 701/702</td>
<td>Spiritual Formation for Ministry I or II</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Total Electives</strong></td>
<td><strong>6</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Total Overall</strong></td>
<td><strong>33</strong></td>
</tr>
</tbody>
</table>

* To qualify for the designation with an emphasis in Church Music, students must complete six hours of elective study in church music. The church music courses are denoted by the asterisk (*).

### Curriculum for the Master of Music in Conducting (Instrumental)

#### Major Area

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 641</td>
<td>Graduate Instrumental Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUS 642</td>
<td>Applied Conducting</td>
<td>6</td>
</tr>
<tr>
<td>MUS 645</td>
<td>Survey of Orchestral Literature</td>
<td>2</td>
</tr>
<tr>
<td>MUS 646</td>
<td>Survey of Wind Ensemble Literature</td>
<td>2</td>
</tr>
<tr>
<td>MUS 595</td>
<td>Graduate Ensemble</td>
<td>2</td>
</tr>
<tr>
<td>MUS 575</td>
<td>Graduate Conducting Recital</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td><strong>Total Major Area</strong></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

#### Other Studies in Music

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 656</td>
<td>Analytical Techniques I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 605</td>
<td>Introduction to Graduate Studies in Music</td>
<td>3</td>
</tr>
<tr>
<td>MUS 620</td>
<td>Historical Study of Musical Styles and Literature (Rotating Topics: Renaissance, Baroque, Classical, Romantic, Twentieth Century and American Music)</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>MUS 650 or</td>
<td>Composition/Arranging</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 651</td>
<td>Orchestration</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 561, 562, 563</td>
<td>Applied Study: Major Performance Instrument</td>
<td>2 credits</td>
</tr>
</tbody>
</table>

**Total Other Studies in Music** 13 credits

**Elective Studies in Supportive Areas**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 620</td>
<td>Historical Study of Musical Styles and Literature</td>
<td>3 credits</td>
</tr>
<tr>
<td></td>
<td>(Rotating Topics: Renaissance, Baroque, Classical, Romantic, Twentieth Century and American Music)</td>
<td></td>
</tr>
<tr>
<td>MUS 621</td>
<td>Service Playing</td>
<td>2 credits</td>
</tr>
<tr>
<td>*MUS 631</td>
<td>Church Music Methods and Technology</td>
<td>3 credits</td>
</tr>
<tr>
<td>*MUS 632</td>
<td>Hymnology &amp; Church Music Literature</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUS 633</td>
<td>Survey of Choral Literature: Renaissance</td>
<td>2 credits</td>
</tr>
<tr>
<td></td>
<td>&amp; Baroque</td>
<td></td>
</tr>
<tr>
<td>MUS 634</td>
<td>Survey of Choral Literature: Mid 18th-century to Present</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 636</td>
<td>Pedagogy of an Orchestral Instrument</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 638</td>
<td>Vocal Pedagogy</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 640</td>
<td>Graduate Choral Conducting Techniques</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 642</td>
<td>Applied Conducting (not in area of specialization)</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 650 or</td>
<td>Composition/Arranging</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 651</td>
<td>Orchestration</td>
<td>2 credits</td>
</tr>
<tr>
<td>*MUS 652</td>
<td>Foundations of Christian Worship</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUS 657</td>
<td>Analytical Techniques II</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUS 658</td>
<td>Counterpoint in the Style of the 16th Century</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUS 659</td>
<td>Counterpoint in the Style of the 18th Century</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUS 680</td>
<td>Special Topics in Music</td>
<td>1-3 credits</td>
</tr>
</tbody>
</table>

**Total Electives** 6 credits

**Total Overall** 33 credits

*To qualify for the designation “with an emphasis in Church Music,” students must complete six hours of elective study in church music. The church music courses are denoted by the asterisk (*).*

**Curriculum for the Master of Music in Performance**

**Major Area**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 565/566/567/574/568</td>
<td>Applied Voice/Piano/Organ/560/561/562/569/563 Harpsichord/or Instrument</td>
<td>8 credits</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>MUS 595</td>
<td>Graduate Ensemble (2 semesters)*</td>
<td>2</td>
</tr>
<tr>
<td>MUS 685</td>
<td>Seminar in the Major (2 semesters)</td>
<td>2</td>
</tr>
<tr>
<td>MUS 575</td>
<td>Graduate Recital</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td><strong>Total Major Area</strong></td>
<td><strong>12 credits</strong></td>
</tr>
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</table>

**Other Studies in Music**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 656</td>
<td>Analytical Techniques I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 605</td>
<td>Introduction to Graduate Studies in Music</td>
<td>3</td>
</tr>
<tr>
<td>MUS 620</td>
<td>Historical Study of Musical Styles and Literature</td>
<td>3</td>
</tr>
<tr>
<td>MUS 637/639/</td>
<td>Organ Skills (2 semesters), Piano Pedagogy (2 Semesters)</td>
<td>2</td>
</tr>
<tr>
<td>638/636</td>
<td>Vocal Pedagogy, Pedagogy of Orchestral Instrument</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Other Studies in Music</strong></td>
<td><strong>11 credits</strong></td>
</tr>
</tbody>
</table>

**Elective Studies in Supportive Areas**

10 credits from among the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 620</td>
<td>Historical Study of Musical Styles and Literature*</td>
<td>3</td>
</tr>
<tr>
<td>MUS 621</td>
<td>Service Playing</td>
<td>2</td>
</tr>
<tr>
<td>*MUS 631</td>
<td>Church Music Methods &amp; Technology</td>
<td>3</td>
</tr>
<tr>
<td>*MUS 632</td>
<td>Hymnology and Church Music Literature</td>
<td>3</td>
</tr>
<tr>
<td>MUS 633</td>
<td>Survey of Choral Literature Renaissance &amp; Baroque</td>
<td>2</td>
</tr>
<tr>
<td>MUS 634</td>
<td>Survey of Choral Literature Mid-18th Century to the Present</td>
<td>2</td>
</tr>
<tr>
<td>MUS 640</td>
<td>Graduate Choral Conducting and Techniques</td>
<td>2</td>
</tr>
<tr>
<td>MUS 641</td>
<td>Instrumental Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUS 642</td>
<td>Applied Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUS 645</td>
<td>Survey of Orchestral Literature</td>
<td>2</td>
</tr>
<tr>
<td>MUS 646</td>
<td>Survey of Wind Ensemble Literature</td>
<td>2</td>
</tr>
<tr>
<td>MUS 650</td>
<td>Composition/Arrangement</td>
<td>2</td>
</tr>
<tr>
<td>MUS 651</td>
<td>Orchestration</td>
<td>2</td>
</tr>
<tr>
<td>* MUS 652</td>
<td>Foundations of Christian Worship</td>
<td>3</td>
</tr>
<tr>
<td>†MUS 655</td>
<td>Diction (3 semesters)</td>
<td>3</td>
</tr>
<tr>
<td>MUS 657</td>
<td>Analytical Techniques II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 658</td>
<td>Counterpoint in the Style of the 16th Century</td>
<td>3</td>
</tr>
<tr>
<td>MUS 659</td>
<td>Counterpoint in the Style of the 18th Century</td>
<td>3</td>
</tr>
<tr>
<td>MUS 680</td>
<td>Special Topics in Music</td>
<td>3</td>
</tr>
<tr>
<td>* MUS 701/702</td>
<td>Spiritual Formation for Ministry I or II</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Total Electives</strong></td>
<td><strong>10 credits</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Total Overall</strong></td>
<td><strong>33 credits</strong></td>
</tr>
</tbody>
</table>
* To qualify for the designation with an emphasis in Church Music, students must complete six hours of elective study in church music. The church music courses are denoted by the asterisk (*).
†Graduate students in vocal performance may not take MUS 655 for credit.

## Curriculum for the Master of Music in Church Music

### Major Area

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 652</td>
<td>Foundations of Christian Worship</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUS 632</td>
<td>Hymnology and Church Music Literature</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUS 631</td>
<td>Church Music Methods &amp; Technology</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUS 601</td>
<td>Supervised Music Ministry</td>
<td>1 credit</td>
</tr>
<tr>
<td>MUS 701/702</td>
<td>Spiritual Formation for Ministry I or II</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 575</td>
<td>Graduate Recital</td>
<td>0 credits</td>
</tr>
</tbody>
</table>

**Total Major Area**  12 credits

### Other Studies in Music

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 565/566/567/574/568</td>
<td>Applied Voice/Piano/Organ/ Harpsichord/Instrumental/</td>
<td>4 credits</td>
</tr>
<tr>
<td>560/561/562/569/563</td>
<td>Conducting</td>
<td></td>
</tr>
<tr>
<td>MUS 595</td>
<td>Graduate Ensemble</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 605</td>
<td>Introduction to Graduate Studies in Music</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUS 620</td>
<td>Historical Study of Musical Styles and Literature</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUS 637/639/638/636</td>
<td>Organ Skills (2 semesters), Piano Pedagogy (2 Semesters)</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 640</td>
<td>Graduate Choral Conducting and Techniques</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 656</td>
<td>Analytical Techniques I</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

**Total Other Studies in Music**  19 credits

### Elective Studies in Supportive Areas

4 credits from among the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 560/561/562/569/563</td>
<td>Applied Voice/Piano/Organ/ Harpsichord/Instrumental</td>
<td>2 credits</td>
</tr>
</tbody>
</table>

*not to be in the area of emphasis

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 620</td>
<td>Historical Study of Music Styles and Literature**</td>
<td>3 credits</td>
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</tbody>
</table>

**this is in addition to the required course and cannot be the same type

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 621</td>
<td>Service Playing</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 633</td>
<td>Survey of Choral Literature: Renaissance &amp; Baroque</td>
<td></td>
</tr>
<tr>
<td>MUS 634</td>
<td>Survey of Choral Literature: Mid-18th Century to Present</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 642</td>
<td>Applied Conducting</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 650</td>
<td>Composition/Arrangement</td>
<td>2 credits</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>MUS 651</td>
<td>Orchestration</td>
<td></td>
</tr>
<tr>
<td>MUS 655</td>
<td>Diction (3 semesters)</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUS 657</td>
<td>Analytical Techniques II</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUS 658</td>
<td>Counterpoint in the Style of the 16th Century</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUS 659</td>
<td>Counterpoint in the Style of the 18th Century</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUS 680</td>
<td>Special Topics in Music</td>
<td>3 credits</td>
</tr>
<tr>
<td></td>
<td><strong>Total Electives</strong></td>
<td>4 credits</td>
</tr>
<tr>
<td></td>
<td><strong>Total Overall</strong></td>
<td>35 credits</td>
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</table>

**Curriculum for the Master of Music in Collaborative Piano:**

**Major Area**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 540</td>
<td>Applied Piano: Collaborative I</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 541</td>
<td>Applied Piano: Collaborative II</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 595</td>
<td>Ensemble</td>
<td>2 credits</td>
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</tbody>
</table>

**Vocal Emphasis:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 542</td>
<td>Applied Piano: Advanced Collaborative I (Vocal)</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 543</td>
<td>Applied Piano: Advanced Collaborative II (Vocal)</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 622</td>
<td>Collaborative Piano Vocal Literature I</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 623</td>
<td>Collaborative Piano Vocal Literature II</td>
<td>1 credit</td>
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</table>

**Instrumental Music Emphasis:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 544</td>
<td>Applied Piano: Advanced Collaborative I (Chamber)</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 545</td>
<td>Applied Piano: Advanced Collaborative II (Chamber)</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 647</td>
<td>Collaborative Piano Chamber Music Literature I</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 648</td>
<td>Collaborative Piano Chamber Music Literature II</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 575</td>
<td>Graduate Recital</td>
<td>0 credits</td>
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</table>

**Total Major Area**

<table>
<thead>
<tr>
<th>Vocals:</th>
<th>Instrumental:</th>
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</thead>
<tbody>
<tr>
<td>13 credits</td>
<td>14 credits</td>
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</table>

**Other Studies in Music**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 605</td>
<td>Introduction to Graduate Studies in Music</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUS 620</td>
<td>Historical Study of Musical Styles and Literature</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUS 656</td>
<td>Analytical Techniques I</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

**Vocal Emphasis:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 655 (A,B,C)</td>
<td>Vocal Diction (3 semesters, 1 hour credit)</td>
<td>3 credits</td>
</tr>
<tr>
<td>MUS 633 OR</td>
<td>Choral Literature I</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 634</td>
<td>Choral Literature II</td>
<td></td>
</tr>
</tbody>
</table>

**Instrumental Music Emphasis:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 645</td>
<td>Orchestral Literature</td>
<td>2 credits</td>
</tr>
<tr>
<td>MUS 646</td>
<td>Wind Ensemble Literature</td>
<td>2 credits</td>
</tr>
</tbody>
</table>

**Total Other Studies in Music**

<table>
<thead>
<tr>
<th>Vocals:</th>
<th>Instrumental:</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 credits</td>
<td>13 credits</td>
</tr>
</tbody>
</table>
Elective Studies in Supportive Areas

6 credits from among the following:

- MUS 560, 562, 569, 563   Applied Performance Lessons 2 credits
- MUS 620 Historical Study of Musical Styles and Literature 3 credits
  (Rotating Topics: Renaissance, Baroque, Classical, Romantic, Twentieth Century and American Music)
- MUS 621 Service Playing 2 credits
- *MUS 631 Church Music Methods & Technology 3 credits
- * MUS 632 Hymnology and Church Music Literature 3 credits
- MUS 633 Choral Literature I 2 credits
- MUS 634 Choral Literature II 2 credits
- MUS 637/ 639/ 636 Organ Skills (2 semesters), Piano Pedagogy (2 Semesters), Pedagogy of Orchestral Instrument
- MUS 638 Vocal Pedagogy 2 credits
- MUS 640 Graduate Choral Conducting 2 credits
- MUS 641 Graduate Instrumental Conducting 2 credits
- MUS 642 Applied Conducting 2 credits
- MUS 645 Orchestral Conducting Literature 2 credits
- MUS 646 Wind Ensemble Conducting Literature 2 credits
- MUS 650 Composition/Arranging 2 credits
- MUS 651 Graduate Orchestration 2 credits
- * MUS 652 Foundations of Christian Worship 3 credits
- MUS 655 (A,B,C) Vocal Diction (1 hour each semester) 1 credit
- MUS 657 Analytical Techniques II 3 credits
- MUS 658 Counterpoint in the Style of the 16th Century 3 credits
- MUS 659 Counterpoint in the Style of the 18th Century 3 credits
- MUS 680 Special Topics in Music 1-3 credits
- * MUS 701/702 Spiritual Formation for Ministry I or II 2 credits

Total Electives 6 credits
Total Overall 34 credits

*To qualify for the designation “with an emphasis in Church Music,” students must complete six hours of elective study in church music. The church music courses are denoted by the asterisk (*).

GRADUATE MUSIC COURSES (MUS)

Applied Music Courses
One-hour private lesson each week with an expectation of 2 hours of rehearsal per day is worth 2 credit hours. One-hour private lesson each week with an expectation of 4 hours of rehearsal per day is worth 4 credit hours. Applied music courses may be repeated for credit.

- MUS 560 (1-2 hours credit), MUS 565 (4 hours credit). Voice
- MUS 561 (1-2 hours credit), MUS 566 (4 hours credit). Piano
- MUS 562 (1-2 hours credit), MUS 567 (4 hours credit). Organ
- MUS 569 (1-2 hours credit), MUS 574 (4 hours credit). Harpsichord
MUS 563 (1-2 hours credit), MUS 568 (4 hours credit). Instrumental (non-keyboard)

<table>
<thead>
<tr>
<th>Instrument</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Flute/Piccolo</td>
<td>N. Tuba</td>
</tr>
<tr>
<td>B. Oboe</td>
<td>R. Percussion</td>
</tr>
<tr>
<td>C. Bassoon</td>
<td>T. Harp</td>
</tr>
<tr>
<td>D. Clarinet</td>
<td>V. Guitar</td>
</tr>
<tr>
<td>E. Saxophone</td>
<td>W. Violin</td>
</tr>
<tr>
<td>J. Cornet/Trumpet</td>
<td>X. Viola</td>
</tr>
<tr>
<td>K. Horn</td>
<td>Y. Violin/Cello</td>
</tr>
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<td>L. Trombone</td>
<td>Z. Double-bass</td>
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<td>M. Euphonium</td>
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MUS 540. Applied Piano: Collaborative I (2 hours)
This applied lesson is weekly private instruction on vocal, instrumental, and chamber music with piano. This lesson sequence is designed to study the techniques and artistry of accompanying. This course will also continue the study of a certain degree of piano solo repertoire. Equal emphasis will be placed on vocal and instrumental collaborative piano repertoire. In addition to weekly private instruction, a weekly studio class is mandatory. Each student will be assigned music majors to accompany for the semester. As well, you may also be assigned to accompany a chamber instrumental or choral ensemble. You will be required to meet weekly for lessons and rehearsals with each assigned student or chamber group. You will also be responsible for accompanying each student in studio classes, student recitals, and juries.

MUS 541. Applied Piano Collaborative Piano II (2 hours)
Prerequisite: completion of MUS 540 or permission of instructor.
This lesson sequence is a continuation of MUS 540.

MUS 542. Applied Piano: Advanced Collaborative I (Vocal) (2 hours)
Prerequisite: completion of MUS 540 and MUS 541 or permission of the instructor.
This lesson sequence will include weekly private instruction specializing in vocal repertoire with piano. This will include art song, opera, and oratorio literature. Study of some solo piano repertoire is required.

MUS 543. Applied Piano: Advanced Collaborative II (Vocal) (2 hours)
Prerequisite: completion MUS 542 or permission of the instructor.
This course is a continuation MUS 542.

MUS 544. Applied Piano: Advanced Collaborative I (Chamber) (2 hours)
Prerequisite: collaborative Piano I and II or permission from instructor.
This course will include weekly private instruction specializing in chamber, sonata, medium-length, and vignette repertoire for piano and other instruments. Study of some solo piano repertoire will be required.

MUS 545. Applied Piano: Advanced Collaborative II (Chamber) (2 hours)
Prerequisite: completion of MUS 544 or permission of instructor.
This course is a continuation of MUS 544.

MUS 575. Graduate Recital (0 hour)
Graduate students are required to register for Graduate Recital during the semester the performer gives a faculty juried graduate recital counting toward the fulfillment of the graduate recital requirement. This course may be repeated only if the content of the recital is completely different from a previous MUS 575 recital.
MUS 595. Graduate Ensemble (1 hour)
Participation in an ensemble that is appropriate for a student's performance discipline. May include choral and/or instrumental ensembles, chamber music, and opera.

MUS 601. Supervised Music Ministry Experience (1 hour)
Designed to meet the needs of students preparing for the music ministry. Students will be assigned to work with appropriate staff members of a local church in a church music leadership position. Students are required to complete one semester of supervised ministry experience, which will be taken after the student's first semester of study.

MUS 605. Introduction to Graduate Studies in Music (3 hours)
An introduction to music research tools, materials, and techniques. The course will provide a study of bibliographical materials and methods of research. The focus of the course will include major references and indexes, databases, and Internet research.

MUS 620. Historical Study of Musical Styles and Literature (3 hours)
A series of graduate-level seminar courses in music history. Topics will be announced in advance, will focus primarily on periods of music history, and drawn from the following: Music in the Ancient World and Renaissance, Music in the Baroque Era, Classicism in Music, Romanticism in Music, 20th Century Music, American Music, and other specialized topics related to music history. This course may be repeated for credit as long as the topic is different.

MUS 621. Service Playing (2 hours)
A study of the special skills required of the organist and organist-director in effective and imaginative worship. Particular emphasis will be placed upon hymn playing, strict and free improvisation, choral accompanying, and the use of a repertoire appropriate to church settings.

MUS 622. Collaborative Piano Vocal Literature I (2 hours)
This course is a survey of vocal literature and collaborative piano with an emphasis on German, French and English art song repertoire (as well as selected Italian, Russian, Scandinavian, Spanish). Class sessions will be diverse and will include lectures, listening, project presentations, written and aural exams; and performance of assigned vocal and piano literature. Outside assignments will include research, listening and preparation of projects.

MUS 623. Collaborative Piano Vocal Literature II (1 hour)
Prerequisite: completion of MUS 622 or permission of the instructor. This course is a survey of vocal literature and collaborative piano with an emphasis on opera and oratorio repertoire. Class sessions will be diverse and will include lectures, listening, project presentations, written and aural exams; and performance of assigned vocal and piano literature. Outside assignments will include research, listening and preparation of projects.

MUS 631. Church Music Methods & Technology (3 hours)
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, youth and children’s choir techniques, and technology related to work in a local church. The class’s format will include lectures, reading sessions, and class projects.

MUS 632. Hymnology & Church Music Literature (3 hours)
This course is designed to provide a survey of the historical development of congregational song in the Western church experience. Areas covered will include the early Christian era.
and the development of hymnody, the Reformation and Counter-Reformation, developments resulting from the evolution of various Protestant groups, text-music relationships, and trends of church music into the 20th century.

**MUS 633. Survey of Choral Literature: Renaissance & Baroque (2 hours)**
A survey of choral literature from 1450-1750. Emphasis will be placed on acquiring a broader knowledge of the choral literature from these periods, and gaining a better understanding of musical styles and performance practice unique to each.

**MUS 634. Survey of Choral Literature: Mid 18th-century to Present (2 hours)**
A survey of choral literature from 1750-present. Emphasis will be placed on acquiring a broader knowledge of the choral literature from the Classical, Romantic, and 20th-century periods, and gaining a better understanding of musical style and performance practice unique to each.

**MUS 636. Pedagogy of an Orchestral Instrument (2 hours)**
This course focuses on development of pedagogical skills for a specific orchestral instrument. Included will be study of performance literature, teaching methods/strategies, and maintenance related to the selected orchestral instrument.

**MUS 637A. Organ Skills I (1 hour)**
This course focuses on development of pedagogical skills as they pertain to the organ. The class will address methods, materials, problems of manual and pedal technique, and registration.

**MUS 637B. Organ Skills II (1 hour)**
This course is a continuation of MUS 637A.

**MUS 638. Vocal Pedagogy (2 hours)**
This course is designed to develop a basic understanding of the physical and acoustical foundations of singing. On the basis of this understanding, the student will (1) improve his or her own singing and (2) become a better teacher of singing on the individual level and in a group context.

**MUS 639A. Piano Pedagogy I (1 hour)**
This course focuses on development of pedagogical skills for the piano. Included will be study of keyboard literature from the Robertsbridge Codex (1320) until the present and supervised teaching of piano lessons given by the graduate student.

**MUS 639B. Piano Pedagogy II (1 hour)**
This course is a continuation of MUS 639A.

**MUS 640. Graduate Choral Conducting & Techniques (2 hours)**
Advanced studies in conducting a choral ensemble. The course will focus on the elements of choral sound, the expressive elements of text, score study, and rehearsal techniques.

**MUS 641. Graduate Instrumental Conducting & Techniques (2 hours)**
Advanced studies in conducting instrumental ensembles. The course will focus on conducting gestures, musical expression, score study, rehearsal techniques, and leading orchestra and wind ensemble groups.

**MUS 642. Applied Conducting: Choral, Orchestral, or Wind Ensemble (2 hours)**
This course will include a weekly, one-hour private lesson. Additionally, students may be required to attend a one-hour studio class session each week. Permission of the conducting teacher is required. This course may be repeated for credit.
MUS 645. Survey of Orchestral Literature (2 hours)
Survey of major orchestral, opera and ballet works from the Baroque to the twenty-first centuries. In-depth study of selected works based on each student's major field of interest. Projects will include an analysis of one work from each period of music. The analysis must include form, harmonic structure, performance considerations and rehearsal procedures. Score identification, listening and interpretation will be required for mid-term and final exams.

MUS 646. Survey of Wind Literature (2 hours)
A survey of wind ensemble literature from the Medieval Period to the present. Emphasis will be placed on acquiring a broad knowledge of wind ensemble literature from these periods, gaining a better understanding of musical styles, performance practice unique to each period, wind ensemble development and score study.

MUS 647. Collaborative Piano Chamber Music Literature I (2 hours)
This course is designed for Collaborative Piano graduate students. This will be an in-depth survey of literature for instruments with piano from the Baroque period through Beethoven and Schubert. Duo sonatas, trios, Quartets, and Quintets will be discussed.

MUS 648. Collaborative Piano Chamber Music Literature II (2 hours)
Prerequisite: completion MUS 647 or permission of instructor.
This course is designed for Collaborative Piano graduate students. This is a continuation of MUS 647 Collaborative Piano Chamber Music Literature I. This in-depth survey will cover the Romantic era through the 20th century. All standard combinations as well as unusual combinations will be discussed.

MUS 650. Composition/Arranging (2 hours)
This course will provide a student with the skills needed for original choral and/or instrumental composition in smaller forms. Further, the course will provide arranging techniques for various vocal/instrumental combinations.

MUS 651. Graduate Orchestration (2 hour)
Prerequisite: Completion of an undergraduate orchestration class equivalent to MUS 350 or permission of the instructor.
This course involves the study of orchestra and band scores, exercises in orchestrating this type of music for different choirs of instruments, scoring for full orchestra and symphonic band, and performance of class work (original scores, transcriptions or arrangements).

MUS 652. Foundations of Christian Worship (3 hours)
(Cross-listed as PRC 652)
This course will introduce students to the history, theology, and practice of Christian worship. Explorations will be made of the varieties of worship in Israel, in the early church, in the church throughout history, in historic Baptist traditions, and in various modern cultural contexts. Students will learn to think theologically about the character, the content, and the movement of worship in their own context and will learn practical skills for worship leadership.

MUS 655a. Graduate Vocal Diction I (1 hour)
Study and application of Italian, Latin (Roman Usage), and English lyric diction through the use of the International Phonetic Alphabet (IPA).

MUS 655b. Graduate Vocal Diction II (1 hour)
Study and application of German and Austro-Germanic Latin lyric diction through the use of the International Phonetic Alphabet (IPA).
MUS 655c. Graduate Vocal Diction III  
Study and application of French lyric diction through the use of the International Phonetic Alphabet (IPA).

MUS 656. Analytical Techniques I  
A survey and application of analytical approaches and techniques in music from tonal works of the late 18th and 19th centuries. Students will acquire an understanding of serial techniques that is sufficient to explain the pitch content and formal procedures in the repertoire of the Second Viennese School.

MUS 657. Analytical Techniques II  
A survey and application of analytical approaches and techniques for music composed in the 20th and 21st centuries.

MUS 658. Counterpoint in the Style of the 16th Century  
A study of compositional techniques that crystallized in the 16th century and reached a peak of development in the music of Palestrina, Lassus, and others. Students will examine polyphonic composition in textures ranging from two to eight voices, plus specialized types of canon and homophonic dance texture.

MUS 659. Counterpoint in the Style of the 18th Century  
A study of tonal counterpoint in a style that crystallized in the first half of the 18th century and reached a peak of development in the music of J. S. Bach. A variety of genres will be explored, including invention, chaconne, chorale prelude, chorale fughetta, figuration variation, and fugue.

MUS 680. Special Topics in Music (Subtitle)  
A study of some significant topic in music that is not otherwise covered in the Townsend School of Music course offerings. The class carries variable course credit (1 to 3 hours) dependent on the proposed course, and may be repeated with a different topic. Courses are created, approved and assigned course credit in the following manner:

- The professor and student create a proposal for the special topics class using the Special Topics Form located in the music office.
- The completed form is submitted to the Director of Graduate Studies.
- The Director of Graduate Studies will submit the proposal to the Dean for review. If approved, the Director of Graduate studies will assign the credit hours of the special topics course and create the subtitle of the course.

MUS 685. Seminar in the Major  
A broad examination of problems related to the major, with intense study of musical literature and interpretation. Specific requirements may differ according to students’ areas of applied study. The MMP degree requires two semesters of enrollment in this seminar resulting in an accumulation of two credit hours. This course may be repeated for credit.

MUS 701. Spiritual Formation for Ministry I  
(Cross-listed as SPF 701)  
This course emphasizes the skill of learning to ask the right questions in order to integrate personal, academic, and professional foundations around a center of spiritual maturity. Discussion of these issues will be pursued in a context of personal spiritual disciplines and community-building small groups.
MUS 702. Spiritual Formation for Ministry II (2 hours)

(Cross-listed as SPF 702)

This course focuses on the spiritual disciplines of the inward and the outward journey, with emphasis on aspects particular to Christian ministers and their roles as spiritual guides. The purpose of the course is to help students develop discernment and delight in the experience of the presence of God so that they may form and lead communities in doing and speaking the truth in love, furthering the heritage of Christian spirituality, and increasing in love, trust, and obedience to Christ.
Mercer University College of Health Professions

The Mercer University College of Health Professions offers various graduate programs consisting of the Master of Medical Science (Physician Assistant), the Master of Public Health, and the Doctor of Physical Therapy. The Master of Medical Science and the Doctor of Physical Therapy are offered on the Cecil B. Day campus and the Master of Public Health is offered on the Macon campus. For more information about these programs including the Master of Public Health, please see the Cecil B. Day catalog.
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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.


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Peggy H. DuBose, Professor of Political Science, Emerita; A.B., M.A., Emory University, 1962, 1963; Ph.D., Vanderbilt University, 1977.

Abbie Donald Evans, Professor of Sociology, Emeritus; B.A., M.A., Ph.D., Louisiana State University, 1968, 1971, 1982.


Robert John Hargrove (1975) Professor of Chemistry and Earth and Environmental Sciences, Emeritus; B.A., Ohio Wesleyan University, 1964; Ph.D., University of Utah, 1974; M.P.H., University of Alabama at Birmingham, 1987.

James Ostelle Harrison, Professor of Biology, Emeritus; A.B., Mercer University, 1949; M.S., University of Georgia, 1954; Ph.D., Cornell University, 1960.


Ann Nickerson Hughes, Professor of Foreign Languages and Literatures, Emerita; A.B., Mercer University, 1950; M.A., Ph.D., University of Georgia, 1964, 1973.


John Barry Jenkins (1978) Vice Provost for Institutional Effectiveness and Assistant Professor of Psychology, Emeritus; B.A., University of Tennessee-Chattanooga, 1966; M.Ed., Northwestern State University, 1971; Ph.D., University of Southern Mississippi, 1978.

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.


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.

Dan Ray Quisenberry, Professor of Physics, Emeritus; A.B., University of Kentucky, 1961; M.T.S., College of William and Mary, 1966; Ph.D., World Open University, 1980.


Thomas Mac Trimble, Professor of Philosophy, Emeritus; B.A., Louisiana College, 1957; B.D., New Orleans Baptist Theological Seminary, 1960.

Denise Carla Volkoff, Associate Professor of Foreign Languages and Literatures; B.A., Lycée Feneion, 1949; C.E.L.G., Licence es Lettres, Sorbonne, 1951.


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.


Jerry Phillips Winfield (1968) Professor of Foreign Languages and Literatures, Emeritus; B.A., Birmingham-Southern


**Alfred Eliot Youman, Professor of Foreign Languages and Literatures, Emeritus**; B.A., M.A., Ph.D., Yale University, 1951, 1956, 1959.

**Full-Time:**


**Animesh Aditya** (2013) *Visiting Assistant Professor of Chemistry*; B.Sc., M.Sc. University of Delhi (India), 1999, 2002; Ph.D., Purdue University, 2010.

**Jose L. Balduz, Jr.** (1998) *Assistant Professor of Physics*; B.S., Tulane University, 1981; M.S., Ph.D., Carnegie Mellon University, 1995.


**Gary Lee Blackburn** (1987) *Chair and Professor of Art*; B.A., Corpus Christi State University, 1979; M.F.A., Stephen F. Austin State University, 1982.

**Amy R. Borchartd** (2012) *Assistant Professor of Psychology*; B.S., University of Wisconsin, 2004; M.S., Ohio University, 2008; Ph.D., Ohio University, 2012.


**Heather Bowman Cutway** (2004) *Associate Professor of Biology*; B.S., Slippery Rock University, 1998; Ph.D., Rutgers University, 2004.


**Peter Craig Brown** (1971) *Chair and Professor of Philosophy*; B.A., Rice University, 1965; Ph.D., Emory University, 1993.

**Kevin Michael Bucholtz** (2005) *Chair and Associate Professor of Chemistry*; B.S., Gannon University, 2000; M.S., Ph.D., University of Rochester, 2002, 2005.

**Craig D. Byron** (2006) *Associate Professor of Biology*; B.A., Indiana University, 1997; M.A., Kent State University, 2001; Ph.D., Medical College of Georgia, 2005.


**Garland L. Crawford** (2011) *Assistant Professor of Chemistry*; B.A., Mercer University, 1997; Ph.D., University of Kentucky, 2007.


D. Scott Davis (1991) *Senior Vice Provost for Research and Dean of Graduate Studies; Professor of Chemistry;* B.S., Erskine College, 1985; Ph.D., Emory University, 1990.

Jeffrey Knox Denny (2000) *Associate Dean and Associate Professor of Mathematics;* B.S., Furman University, 1994; M.S., Ph.D., Florida State University, 1997, 2000.


Kevin M. Drace (2008) *Assistant Professor of Biology;* B.S., Athens State University, 2002; Ph.D., University of Alabama at Birmingham, 2008.


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Jennifer Carol Ellis (2012) *Assistant Professor of Mathematics;* B.S., Union University, 2005; M.A., University of Georgia, 2012; Ph.D., University of Georgia, 2012.


David R. Goode (2008) *Assistant Professor of Chemistry;* B.S., Mercer University, 2002; Ph.D., University of Illinois at Urbana-Champaign, 2007.

J. Christopher Grant (2005) Associate Professor of Political Science and Director of Mercer Service Scholars Program; B.S., Birmingham-Southern College, 1990; M.A., Ph.D., University of Georgia, 1993, 2000.

Keegan D. Greenier (1996) Chair and Associate Professor of Psychology; B.S., Clarkson University, 1989; M.S., Ph.D., University of Georgia, 1992, 1995.

Andrew Haeg (2013) Visiting Instructor in Journalism and Journalist-In-Residence; BA, St. John's University (MN), 1995; M.Sc., Columbia University, 1998


Nicholas Hollingshad (2013) Visiting Assistant Professor of Physics; B.Ch.E., Georgia Institute of Technology 1978; Ph.D., University of North Texas 2012.

Ashley Hopkinson (2013) Visiting Assistant Professor of Journalism; BA, Auburn University 2008; MA, University of California at Berkeley 2012.

Eimad Houry (1991) Professor of Political Science; Chair of International and Global Studies; Director of International Affairs Program and INT 301; B.S., Florida A&M University, 1985; M.S., Ph.D., Florida State University, 1987, 1991.


Jeffrey Dean Hugdahl (1997) Professor of Chemistry; B.S., University of Wisconsin-Parkside, 1983; Ph.D., University of Texas at Austin, 1990.

Jarred R. Jenkins (2012) Assistant Professor of Psychology; B.S., Lebanon Valley College, 2005; M.S., University of Oklahoma, 2008; Ph.D., University of Georgia, 2013.


Janell Anne Cook Johnson (2000) Associate Professor of Christianity; Director of Women's and Gender Studies and Cultural Studies; B.S., Mars Hill College, 1983; M.A., Southwestern Baptist Theological Seminary, 1985; M.Div., Union Theological Seminary, 1995; Ph.D., Princeton Theological Seminary, 2005.

Lori A. Johnson (2005) Associate Professor of Political Science and Director of Law and Public Policy Program; B.A., University of Georgia, 1986; J.D., University of Virginia, 1989; Ph.D., University of California, Berkeley, 2003.


G. Anthony Kemp (2008) Associate Director of Academic and Advising Services and Senior Lecturer; B.S., Georgia Southern University, 1991; M.Ed., University of South Carolina, 1993.

Adam M. Kiefer (2008) Assistant Professor of Chemistry; B.S., Allegheny College, 2002; Ph.D., University of Illinois at Urbana-Champaign, 2008


Kathryn D. Kloepper (2009) Assistant Professor of Chemistry; B.S., University of Dallas, 2003; Ph.D., University of Illinois at Urbana-Champaign, 2008.


Mary Crecink Kot (1991) Professor of Biology; B.S., Mississippi University for Women, 1977; M.Ed., Mississippi State University, 1982; M.S., Ph.D., University of Tennessee, Knoxville, 1984, 1989.

Sheng-Chiang Lee (2006) Associate Professor of Physics; B.S., National Taiwan University, 1997; Ph.D., University of Maryland, 2004.


Orosman Lopez (2009) Assistant Professor of Foreign Languages and Literatures; B.A., University of Florida, 1994; M.A., University of Texas—Austin, 2000; Ph.D., Emory University, 2012.

Yuanting Lu (2013) Visiting Assistant Professor of Mathematics; BS Sichuan University (China), 2007; MS, Florida State University, 2010; Ph.D., Florida State University, anticipated 2013


Lydia Masanet (1997) Chair and Associate Professor of Foreign Languages and Literatures; B.A., Universidad Central De Barcelona, 1984; M.A., University of Colorado, 1990; Ph.D., University of Southern California, 1996.
Hope McIlwain (1998) Associate Professor of Mathematics; B.S., Furman University, 1992; Ph.D., Rice University, 1998.

Craig T. McMahan (2005) University Minister and Dean of the Chapel; Assistant Professor of Christianity; B.A., Taylor University, 1978; M.Div., Ph.D., Southern Baptist Theological Seminary, 1981, 1987.

Olu Menjay (2010) Visiting Assistant Professor of Christianity; B.A., Mercer University, 1995; M.Div., Duke University, 1998; S.T.M., Boston University, 2005; Ph.D., University of Wales, 2009.

Stephen Michael (2013) Visiting Assistant Professor of Psychology; BA, Elon University, 2008; MA, University of Texas at El Paso, 2010; Ph.D., University of Texas at El Paso, anticipated 2013.

Marilyn Paul Mindingall (1987) Senior Vice Provost for Administration and Special Programs and Associate Professor of Psychology; B.A., Purdue University, 1975; M.S., Ph.D., The Pennsylvania State University, 1978, 1981.

Dale Edward Moore (1996) Professor of Chemistry; B.S., University of Cincinnati, 1992; Ph.D., University of Wisconsin, Madison, 1996.

Michael Keith Moore (1997) Professor of Biology; B.S., Humboldt State University, 1989; M.S., Louisiana State University, 1991; Ph.D., University of Louisiana, 1997.

Mary Alice Morgan (1997) Professor of English; Senior Vice-Provost for Service Learning; B.A., Duke University, 1977; M.A., Ph.D., University of Illinois at Urbana-Champaign, 1979, 1992.


Katharine Northcutt (2010) Assistant Professor of Biology; B.S., Emory University, 2005; Ph.D., Michigan State University, 2010.

Chinekwo Obidaa (2013), Assistant Professor of Global Health; BSc, University of Nigeria (2000); MA and MPH, University of Connecticut (2003, 2005); MS, Central Connecticut State University (2007); PhD, University of Connecticut (2010).

Eric O’Dell (2013) Assistant Professor of Art; BA, Mercer University (1992); MFA, Florida State University, 1994.


Jose H. Pino (2005) Assistant Professor of Foreign Languages and Literatures; B.A., M.A., University of Caldas, 1993, 2000; M.A., University of Salamanca, 2002; Ph.D., University of Nebraska-Lincoln, 2005.


Tim Regan-Porter (2012) Visiting Instructor and Director of the Center of Collaborative Journalism; B.A., Olivet Nazarene University, 1991.


Creighton J. Rosental (2004) Chair and Associate Professor of Philosophy; B.S., Harvey Mudd College, 1991; M.A., Claremont Graduate University, 1993; Ph.D., University of Massachusetts, 2004.

John Thomas Scott (1991) Professor of History and Director of Honors Program; B.A., Vanderbilt University, 1984; M.A., University of Georgia, 1986; Ph.D., College of William and Mary, 1991.


Caryn Sanford Seney (1996) Professor of Chemistry; B.S., Centre College, 1992; Ph.D., Wake Forest University, 1996.


Alan F. Smith (1995) Professor of Biology and Director of Biochemistry and Molecular Biology; B.A., Millersville University, 1976; Ph.D., Rutgers University, 1989.


Barry P. Stephenson (2012) Visiting Assistant Professor of Biology; B.A., Clark University, Worcester, 1998; M.S., Washington State University, 2008; Ph.D., University of Oklahoma, 2012.


Douglas E. Thompson (2001) Associate Professor of Southern Studies and Cultural Studies; B.A., Old Dominion University, 1989; M.Div., Southern Baptist Theological Seminary, 1993; Ph.D., University of Virginia, 2003.

Bridget Gayle Trogden (2005) Associate Professor of Chemistry and Director of INT 101; B.A., Transylvania University, 2000; Ph.D., University of Illinois, 2005.

Cynthia Warren (2012) Assistant Professor of Military Science; Captain, United States Army.

J. Anna Weaver (1992) Associate Professor of Foreign Languages and Literatures; B.A., Emory University, 1984; M.A., Middlebury College, 1985; Ph.D., University of Virginia, 1997.

Edward James Weintraut (1983) Associate Dean and Professor of Foreign Languages and Literatures; B.A., LaSalle College, 1974; M.A., Ph.D., Ohio State University, 1977, 1984.

Laurie White (1999) Professor of Computer Science; B.A., University of Virginia, 1979; M.S., Ph.D., University of Florida, 1985, 1990.


Amy M. Wiles (2010) Assistant Professor of Biology; B.S., Mississippi College, 1998; Ph.D., University of Tennessee, 2005.


Virginia A. Young (2009) Assistant Professor of Biology; B.S., Clemson University, 2000; Ph.D., Wake Forest University, 2006.


Eugene W. Stetson School of Business and Economics–Faculty

Emeriti:


G. Russell Barber, Jr. (1973) Professor of Accounting and Economics, Emeritus;
B.A., Occidental College, 1961; M.B.A., Stanford University, 1963; Ph.D., University of Mississippi, 1990; C.P.A.


William Vernon Luckie, Jr. (1976) Assistant Professor of Accounting and Finance, Emeritus; B.S., University of Alabama, 1959; M.B.A., University of Mississippi, 1968; C.P.A.


Full-Time


Walter Wade Austin (1990) Professor of Accounting; B.S., University of Tennessee, 1968; M.B.A., University of Utah, 1971; Ph.D., University of Georgia, 1989; C.P.A.

Jordan Matthew Blanke (1985) Professor of Computer Science and Law; B.S., M.S., SUNY at Stony Brook, 1976; J.D., Emory University School of Law, 1980.

Linda L. Brennan (1997) Professor of Management; B.I.E., Georgia Institute of Technology; M.B.A., University of Chicago, 1988; Ph.D., Northwestern University, 1994; P.E., P.M.P.

Carol J. Cagle (2012) Assistant Professor of Management; B.S., Naval Postgraduate School; M.S., George Washington University; M.S., Georgia Institute of Technology; Ph.D. University of Texas at Arlington.


Sean S. Chen (2009) Associate Professor of Accounting; B.B.A., M.Ed., National Taiwan University, 1976, 1979; M.B.A., Youngstown State University, 1985; Ph.D., University of Pittsburgh, 1992.


Catherine “Anitha” Manohar (2007) Assistant Professor of Finance; B.A.,
Agnes Scott College, 2002; Ph.D., University of South Carolina, 2007.


Etienne Musonera (2008) Assistant Professor of Marketing; B.B.A., Davenport University, 1992; M.S., Western Michigan University, 1995; Ph.D., Wayne State University, 2003.

Geoffrey M. Ngene (2012) Assistant Professor of Finance; B.Com., C.P.A./ACC, M.B.A., University of Nairobi (Kenya); M.S., Ph.D., University of New Orleans.


Arthur L. Rutledge (1998) Professor of Management Information Systems; B.I.E., Georgia Institute of Technology, 1967; M.S., St. Mary’s University, 1975; Ph.D., Georgia State University, 1986.


School of Engineering – Faculty

Emeritus:

Carroll B. Gambrell, P.E., Dean, Emeritus; LLB (Honorary), Southern California Institute of Law, 1998; M.B.A, West Coast University, 1997; B.A., Florida Southern College, 1975; B.S.E. Clemson University, 1949; M.S.E., University of Florida, 1952; Ph.D., Purdue University, 1958.
Thomas A. Cook, P.E., Professor, Emeritus; B.S., Massachusetts Institute of Technology, 1959; M.S., University of Arkansas, 1981; Ph.D., Oklahoma State University, 1989.


Robert I. Gray, Professor, Emeritus; B.Ch.E., M.Ch.E., Syracuse University, 1952, 1957; Ph.D., University of Tennessee, 1961.

Allen F. Grum, P.E., Professor, Emeritus; B.S., United States Military Academy, 1953; M.S., Massachusetts Institute of Technology, 1958; Ph.D., Stanford University, 1976.


Clayton R. Paul, Professor Emeritus; B.S.E.E., The Citadel, 1963; M.S.E.E., Georgia Institute of Technology, 1964; Ph.D., Purdue University, 1970.


Full-Time:


Kevin D. Barnett (1993) Associate Professor and Chair of Electrical and Computer Engineering; A.S., Morehead State, 1984; B.S., Morehead State, 1984, 1986; B.S., NC State University, 1986; M.S., University of Tennessee, 1988; Ph.D., Clemson University, 1993.


Monika Bubacz (2007) Associate Professor of Mechanical Engineering; B.S./M.S., Proznan University of Technology, Poland, 1998; Ph.D., University of New Orleans, 2006.

Andre J. Butler (2000) Associate Professor and Chair of Environmental Engineering; B.S. University of Illinois, 1993; M.S. Carnegie Mellon University, 1995; Ph.D., Georgia Institute of Technology, 2000.


Helen M. Grady (1991) Director and Chair of BS and MS Technical Communication Programs and Professor of Technical Communication; B.S., Queens University, 1976; M.S., Queen's College, 1979; Ed.D., Nova Southeastern University, 2000.


Sinjae Hyun (2003) Associate Professor of Biomedical Engineering; B.S., M.S., Kyungpook National University 1986, 1988; Ph.D., North Carolina State University, 1998.


Jeng-Nan Juang (1987) Professor of Electrical and Computer Engineering; B.S.E., National College of Marine and Oceanic Technology, Taiwan, 1975; M.S.E., Ph.D., Tennessee Technological University, 1978, 1986.


Paul E. MacNeil (1990) Associate Professor of Software Engineering and Graduate Fellow; B.S., Rensselaer Polytechnic Institute, 1966; M.S., Ph.D., University of Arizona, 1968, 1971.


Richard O. Mines, Jr., P.E., F.ASCE (1998) Program Director for MSE and Associated MS Degree Programs and Professor of Environmental Engineering; B.S., Virginia Military Institute, 1975; M.E. University of Virginia, 1976; Ph.D., Virginia Polytechnic Institute and State University, 1983.


Edward M. O’Brien, P.E. (1990) *Professor of Biomedical Engineering; Electrical & Computer Engineering, Chair of Biomedical Engineering;* B.S., Colorado State University, 1971; M.S., Ph.D., Iowa State University, 1974, 1977.


Ha Van Vo (2005) *Associate Professor of Biomedical Engineering;* B.S., University of Florida, 1996; M.D., Hope Combined Medical College, 2002; D.P.M., Barry University, 2002; M.S., Ph.D., Florida Atlantic University, 2000, 2003.

Tift College of Education – Faculty

Emeriti:


Olyn Suthern Sims, Jr., *Professor of Developmental and Educational Psychology;* A.B., Samford University, 1959; M.Div., Southern Baptist Theological Seminary, 1963; M.A., University of Kentucky, 1963; Ed.D., University of South Carolina, 1976.


Full-Time:


Sharon M. Augustine (2006) Assistant Professor of Education; B.S., Agnes Scott College, 1990; M.Ed., Georgia College and State University, 1993; Ph.D., University of Georgia, 2010.


Jabari Cain (2009) Assistant Professor of Education; B.S. Florida Agricultural and Mechanical University, 2000; M.A. University of Northern Iowa, 2002; Ph.D., University of Nebraska, 2008.

Sherah Betts Carr (2005) Associate Professor of Education; B.S., Mansfield State College, 1972; M.S., Florida State University, 1975; Ph.D., Georgia State University, 1988.


Karen H. Davis (2000) Associate Professor of Education; B.S., Georgia Southern University, 1991; M.S., North Georgia College, 1995; Ph.D., Purdue University, 2001.


State University, 1982; Ph.D., University of Mississippi, 1995.


Catherine M. Gardner (1991) Professor of Education & Chair, Regional Academic Centers Teacher Education; B.S., M.Ed., East Carolina University, 1972, 1974; Ph.D., University of Georgia, 1992.


Tristan L. Glenn (2013) Assistant Professor; B.S., Bethune-Cookman University, 2002; M.A., Ph.D., University of South Florida, 2007, 2013.


Jeffrey Scott Hall (2010) Assistant Professor of Education; B.S. United States Air Force Academy, 1998; M.Ed. The University of Georgia, 2005; Ed.D. Georgia Southern University, 2010.


Joseph R. Jones (2013) Assistant Professor; B.S., University of Alabama at Birmingham (1998); Ph.D., University of Rochester (2011).

Margie Jones (2006) Associate Professor of Education; B.S., Medical College of Georgia, 1983; M.Ed., Georgia State University, 1997; Ed.S., State University of West Georgia, 2002; Ed.D., Georgia Southern University, 2005.


Pamela A. Larde (2010) Assistant Professor of Education; B.S. California Polytechnic State University, 2000; M.Ed. Azusa Pacific University, 2004; Ph.D. Cardinal Stritch University, 2009.


Mary Nell McNeese (2011) Associate Professor; B.S., Samford University, 1976; M.Ed., University of Southern Mississippi, 1995; Ph.D., University of Alabama, 2000.


debra leigh walls rosenstein (2002) Associate Professor of Education; B.S., North Carolina State University, 1975; M.S., University of Tennessee, 1978; Ed.D., Virginia Polytechnic Institute, 1982.


Albert A. Stramiello (1985) Professor of Education and Director of Doctoral
Vincent Youngbauer (2013) Assistant Professor; B.S., Pennsylvania State University, 1998; M.S., Wilkes University, 2007, Ph.D., Pennsylvania State University, 2011.

Townsend School of Music - Faculty

Emeriti:

Lois Belle Lantz, Associate Professor of Music; B.M., M.M., Indiana University, 1949, 1950.

Howard Lowen Marshall, Professor of Music; B.M., Shenandoah Conservatory, 1952; M.M., University of Cincinnati, 1958; Ph.D., University of Rochester, 1968.

Full-Time:


C. David Keith (2010) Dean and Professor of Music; B.S., William Jewell College, 1971; M.M., Southwestern Baptist
Theological Seminary, 1974; D.M.A., 1980.

Richard Kosowski (2007) Associate Professor of Music and Director of Graduate Studies; B.M.E., Truman State University, 1987; M.M., University of Miami, 1997; D.M.A., University of Houston, 2008.


Marcus D. Reddick (2006) Associate Professor of Music; B.M., University of Nebraska at Omaha, 1993; M.M., University of Nevada-Las Vegas, 1996; D.M.A., University of Kentucky, 2004.


Christopher Schmitz (2013) Associate Professor of Music; B.M.E., Arizona State University, 1996; M.M., University of Northern Iowa, 2003; D.M.A., University of Texas-Austin, 2011.


Center for Strings Faculty:


Adjunct Faculty:


Tom Gibson (2009) Instructor of Trombone; B.M., University of


Nancy Rehberg (1982), Senior Lecturer of Voice; B.M., Wesleyan College, 1966; M.M., Northwestern University, 1967.


Faculty - Division of Library Services - Macon

Emerita:


Mary Robison Howard (1987), Associate Professor, Emerita; B.A., College of William and Mary, 1959; M.A.L.S., University of Wisconsin-Milwaukee, 1976; M.A., Ball State University, 1986.

Tarver Library:


Laura M. Botts (2006), Associate Professor and Head of Special Collections; B.A., Shorter College, 1993; M.S.L.I.S., Florida State University, 1995.

Susan Gardner Broome (1990), Associate Professor and Associate Director for Technical Services/ Tarver Library; B.A., Shorter College, 1973; M.S.L.S., University of Kentucky, 1975.


Andrew Shuping (2006) Assistant Professor and Interlibrary Loan and Circulation Services Librarian/Tarver Library; B.A., Winthrop University, 2001; M.L.I.S., University of South Carolina, 2006.


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