

# Statement of Mission

Middle Tennessee State University unites the closeness of a small college with the opportunities of a large dynamic public university where students explore their intellectual potential and realize the promise in their futures. Grounding students in the arts and sciences, the University offers an integrated, technological, innovative education that prepares leaders for the economic, political, civic, and social life of the region and beyond.

The University is dedicated to promoting openness and educating a diverse student body from across the nation and around the world through comprehensive undergraduate and select masters and doctoral programs. MTSU prepares students to live productively and to become lifelong learners; to employ scientific knowledge and an understanding of culture and history; to think logically, critically, and creatively; to communicate clearly; to make sound judgments; to acquire working knowledge of a discipline or group of related disciplines; and to participate as citizens in the global community. The MTSU community creates knowledge through research and uses scholarship to enhance teaching and public service.

The University fosters an environment conducive to learning and personal development; recruits exceptional faculty and maintains support services to assist instruction; provides resources to encourage research, creative activity, and service;

develops individual, corporate, and public support; encourages excellence in athletics and recreational activities; establishes academic partnerships that support student-centered learning; works continually to strengthen and enhance the academic core; and supplies resources to accomplish its mission.

A major public institution of higher learning, MTSU is a member of the State University and Community College System of Tennessee.

## Vision

The Academic Master Plan creates a strategic blueprint that defines the University's vision, underscoring MTSU's commitment to leadership in higher education and to building Tennessee's future. It commits the University to achieving excellence in academics and to advancing student-centered learning. To this end, the University employs emerging technologies while honoring a sense of community, history, and tradition. Selective new academic programs strengthen partnerships with appropriate constituencies.

*Approved December 2004*



# Directory for Correspondence

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The course offerings and requirements of Middle Tennessee State University are continually under examination and revision. This catalog presents the offerings and requirements in effect at the time of publication, but there is no guarantee that they will not be changed or revoked. This catalog is not intended to state contractual terms and does not constitute a contract between the student and the institution.

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

The institution does not warrant or represent that any student who completes a course or program of study will necessarily acquire any specific skills or knowledge or will be able to successfully pass or complete any specific examination for any course, degree, or license.

Current information may be obtained by calling or writing the following sources:

<b>General Inquiries</b> .....	<b>Campus Operator</b> <b>(615) 898-2300</b>
Admissions, Graduate .....	898-2840
Admissions, Undergraduate .....	898-2111
Alphabetic breakdown (by student's last name)	
<b>Freshmen</b>	
A-Gn .....	898-5631
Go-O .....	898-2222
P-Z .....	898-2199
<b>Transfer</b>	
A-K .....	898-2227
L-Z .....	898-2197
Adult students .....	Adult Services Center 898-5989
Co-op students .....	Cooperative Education 898-2225
Developmental and basic classes .....	Developmental Studies 898-2568
Disabled students .....	Disabled Student Services 898-2783
Distance learning .....	Continuing Studies and Public Service 898-5611
Fees .....	Business Office 898-2761
Financial assistance .....	Financial Aid 898-2830

General academic policies .....	Academic Affairs 898-2880
Graduate studies, degrees .....	Graduate Office 898-2840
Graduation analysts, graduate .....	Graduate Office 898-2840
Graduation analysts, undergraduate .....	Records Office 898-2600
Honors classes .....	University Honors College 898-2152
Housing reservations .....	Housing and Residential Life 898-2971
International students .....	International Programs and Services 898-2238
Library resources .....	Walker Library 898-2772
Majors and course offerings .....	Department/School offering program
Minority or multicultural affairs .....	Multicultural Affairs 898-2987
Night classes .....	Continuing Studies and Public Service 898-5611
Off-campus classes .....	Continuing Studies and Public Service 898-5611
Parking regulations .....	Parking and Transportation Services 898-2850
Re-enrollment requirements .....	Admissions Office 898-2111
Registration .....	Scheduling Center 898-5800
Student life, activities .....	Student Affairs 898-2440
Teacher licensure .....	Teacher Licensing Office 898-2874
Testing arrangements .....	Guidance Services Testing Center 898-2670
Transcripts .....	Records Office 898-2600
Veterans .....	Records Office 898-2601
Women's issues .....	Women's Center 898-2193

**Middle Tennessee State University**  
**Murfreesboro, Tennessee 37132**

**MTSU Web site: <http://www.mtsu.edu>**

# The University Calendar, 2004-05

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Calendar subject to change as conditions may require.

Please see class schedule book each semester for registration, fee payment, drop/add, and other important dates.

## Spring Semester 2004

January 12	Classes begin
January 19	Martin Luther King Holiday - no classes
March 1-6	Mid-semester
March 22-27	Spring Break
April 9	Holiday - no classes
April 10	Saturday classes meet
May 4	Last day of classes
May 5-11	Final examinations
May 15	Commencement

## Summer Session I 2004

May 17	Classes begin
May 31	Memorial Day Holiday - no classes
June 4	Final examinations, Session I

## Summer Sessions II, III, and IV 2004

June 7	Classes begin for Sessions II and III
July 5	Independence Day Holiday - no classes
July 9	Final examinations, Session II
July 12	Classes begin, Session IV
August 12	Final examinations, Sessions III and IV; <b>classes meeting M-Th</b>
August 13	Final examinations, Sessions III and IV; <b>classes meeting M-F</b>
August 14	Commencement

## Fall Semester 2004

August 30	Classes begin
September 6	Labor Day Holiday - no classes
October 18-23	Mid-semester
October 16-19	Fall Break - no classes
November 25-27	Thanksgiving Holidays - no classes
December 8	Last day of classes
December 9	Study Day
December 10-16	Final examinations
December 18	Commencement

## Spring Semester 2005

January 17	Martin Luther King Holiday - no classes
January 18	Classes begin
March 7-12	Spring Break
March 7-12	Mid-semester
March 11	Holiday - no classes
April 27	Last day of classes
April 28	Study Day
April 29-May 5	Final examinations
May 7	Commencement

## Summer Session I 2005

May 16	Classes begin
May 30	Memorial Day Holiday - no classes
June 3	Final examinations

## Summer Sessions II, III, IV 2005

June 6	Classes begin for Sessions II and III
July 4	Independence Day - no classes
July 7	Final examinations, Session II; <b>classes meeting M-Th</b>
July 8	Final examinations, Session II; <b>classes meeting M-F</b>
July 11	Classes begin for Session IV
August 11	Final examinations, Sessions III and IV; <b>classes meeting M-Th</b>
August 12	Final examinations, Sessions III and IV; <b>classes meeting M-F</b>
August 13	Commencement

## Fall Semester 2005

August 29	Classes begin
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Middle Tennessee State University is a member of the Tennessee Board of Regents system, the sixth largest system of higher education in the nation. The Tennessee Board of Regents is the governing board for this system which comprises six universities, thirteen community colleges, and twenty-six area technology centers. The TBR system enrolls more than 80 percent of all Tennessee students attending public institutions of higher education.

Middle Tennessee State University, in its educational programs and activities involving students and employees, does not discriminate on the basis of race, color, national origin, sex, religion, or age. Furthermore, the University does not discriminate against veterans or individuals with disabilities.



# The History of the University

In 1909, the General Assembly of the State of Tennessee moved “to provide for the improvement of the system of Public Education of the State of Tennessee, that is to say, to establish a General Education Fund.” The major thrust of this “improvement” embodied in the legislative act that was to become known as the General Education Bill of 1909 was the establishment of three normals or teacher-training institutions. Following the intent of the act that one was to be located in each of the grand divisions of the state, the State Board of Education assigned the middle Tennessee institution to Murfreesboro.

Opening on September 11, 1911, with a two-year program for training teachers, Middle Tennessee State Normal School evolved into a four-year teachers college in 1925 with the power of granting the Bachelor of Science degree. In 1943, the General Assembly designated the institution a state college. This new status marked a sharp departure from the founding purpose and opened the way for expanding curricular offerings and programs. In 1965, the institution was advanced to university status.

During the progressive movement from a two-year normal to a university, several significant milestones may be identified. In 1936, the Bachelor of Arts program was added. Responding to the expressed needs of the institution’s service area, the Graduate School was established in 1951. To effect better communications and improve administrative supervision, the schools concept was introduced in 1962.

As Middle Tennessee State University developed and grew, the prestigious Doctor of Arts program was added in 1970 and the Specialist in Education in 1974. These two degree programs became attractive centerpieces for other efforts to improve and enhance institutional roles. Library resources were dramatically increased and sophisticated computer services were developed to aid instruction and administration. A highly trained faculty enabled the University to continue growth in program offerings. In 1991, the University’s six schools—five undergraduate and the graduate school—became col-



leges. In 1998, MTSU’s Honors Program became the Honors College, the first in the state. In 2002, approval was granted to convert three D.A. programs to Doctor of Philosophy programs, adding the Ph.D. to the progressive institution’s offerings.

Since 1911, MTSU has graduated more than 86,768 students. Despite the University’s growth from a campus of 100 acres, 125 students, and a faculty of 19, to an academic city of over 500 acres, more than 21,000 students, and a faculty of over 800, the institution is still essentially a “people’s university” with a concern for the diverse needs of the area that it serves. In the 1980s and ’90s, the institution dedicated resources to become a leader in technology, both in the classroom and in many services to students. In 1986, James McGill Buchanan (’40) became the first MTSU alumnus to be awarded the Nobel Prize. Buchanan received the Nobel Memorial Prize in Economic Sciences for his development of the theory of public choice, a way of studying the expenditure of public funds.



# University Administrative Officers

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## Office of the President

Sidney A. McPhee, president

Kimberly S. Edgar, executive assistant

Frances R. Rich, administrative assistant

**Affirmative Action/Equal Opportunity**, Forrestine Williams, director

**Athletics**, Boots Donnelly, director

**Internal Auditor**, Brenda Burkhart, director

**University Counsel**, James Floyd, assistant to the president

## Office of the Executive Vice President and Provost Academic Affairs, Division of

Kaylene A. Gebert, executive vice president and provost

Jack Thomas, vice provost for academic affairs

Rebecca Cole, associate vice president for academic resources

Faye Johnson, assistant to the executive vice president and provost

**Adams Chair of Excellence in Health Care Services**,

Martha Jo Edwards, chairholder

**African American Studies**, Adonijah Bakari, director

**Aging Studies**, Ron Aday, director

## Centers of Excellence

**Historic Preservation**, Carroll Van West, director

**Popular Music**, Paul F. Wells, director

**Continuing Studies and Public Service**, Rosemary W. Owens, dean

**Cultural Diversity Initiatives**, Sharon Shaw-McEwen, director

**Developmental Studies Program**, Marva Lucas, interim chair

**General Education**, William J. Badley, director

**Global Studies**, Douglas Heffington, director

**College of Graduate Studies**, A.S. Rao, vice provost  
for research and dean

**Institutional Effectiveness, Planning, and Research**

Fay S. Parham, executive director

**Institutional Research**, Cornelia Wills, director

**Sponsored Programs**, Myra Norman, director

**Tennessee Center for Labor Management Relations**,

Barbara Haskew, interim director

**University Library**, Don Craig, dean

**Women's Studies**, Elyce Helford, director

## Basic and Applied Sciences, College of

Thomas J. Cheatham, dean  
associate dean

**Aerospace**, Paul A. Craig, chair

**Agribusiness and Agriscience**, Harley W. Foutch, school director

**Biology**, George G. Murphy, chair

**Chemistry**, Earl F. Pearson, chair

**Computer Science**, Richard Detmer, chair

**Engineering Technology and Industrial Studies**, Walter Boles, chair

**Mathematical Sciences**, chair

**Military Science**, Todd A. Overby, chair

**Nursing**, Lynn C. Parsons, interim school director

**Physics and Astronomy**, Robert F. Carlton, chair

## Business, Jennings A. Jones College of

E. James Burton, dean

Dwight Bullard, associate dean

**Accounting**, Paula B. Thomas, chair

**Business Education, Marketing Education, and  
Office Management**, Linda McGrew, chair

**Computer Information Systems**, Stanley E. Gambill, chair

**Economics and Finance**, John Lee, chair

**Management and Marketing**, Jill Austin, chair

**Business and Economic Research Center**, David A. Penn, director

## Education and Behavioral Science, College of

Gloria Bonner, dean

Dorothy Craig, associate dean for teacher education

**Criminal Justice Administration**, Deborah W. Newman,  
interim chair

**Educational Leadership**, James O. Huffman, chair

**Elementary and Special Education**, Connie A. Jones, chair

**Health, Physical Education, Recreation, and Safety**,

Dianne Bartley, interim chair

**Human Sciences**, Dellmar Walker, chair

**Psychology**, Harold D. Whiteside, interim chair

**Pittard Campus School**, Stan Baskin, principal

**Instructional Technology Support Center**, Connie Schmidt,  
director

## Honors, College of University

John Paul Montgomery, dean

## Liberal Arts, College of

John N. McDaniel, dean

Anne T. Sloan, associate dean

Hillary Stallings, assistant to the dean

**Art**, Mark Price, chair

**English**, William Connelly, chair

**Foreign Languages and Literatures**, Deborah Mistrion, chair

**Geosciences**, Ronald L. Zawislak, chair

**History**, Thaddeus Smith, chair

**Music**, George T. Riordan, school director

**Philosophy**, Ron Bombardi, chair

**Political Science**, John R. Vile, chair

**Social Work**, Charles Frost, chair

**Sociology and Anthropology**, Edward Kick, chair

**Speech and Theatre**, Russell Church, chair

## Mass Communication, College of

Anantha S. Babbili, dean

associate dean

**Electronic Media Communication**, Robert W. Spires, chair

**Journalism**, Edward M. Kimbrell, interim school director

**Recording Industry**, Chris Haseleu, chair

**WMOT**, John High, general manager

## Business and Finance, Division of

John W. Cothorn, vice president

Mike Gower, associate vice president

**Administrative Services**, Deborah D. Roberts, director

**Budget Office**, Kathy R. Thurman, director

**Campus Planning**, Patricia S. Miller, director

**Events and Transportation Services**, Ron Malone

**Facilities Services**, David W. Gray, director

**Human Resource Services**, Kathy Musselman, director

**Public Safety**, John S. Drugmand, director

**Procurement and Auxiliary Services**, Joe Hugh, director

**Development and University Relations, Division of**

William J. “Joe” Bales, vice president

**Advancement Services**, Tom Brannan, director

**Alumni Relations**, director

**Development**, Kirk Purdom, director

**News and Public Affairs**, Doug Williams, executive director

**Photographic Services**, Jack Ross, director

**Publications and Graphics**, Suma M. Clark, director

**Information Technology, Division of**

Lucinda Lea, vice president and CIO

Jerry Gentry, assistant vice president

**Academic and Instructional Technology Services**, Barbara Draude, director

**Administrative Information System Services**, Lisa Rogers, director

**Communication Support Services**, Robin Jones, director

**Database Administration Services**, Doug Cothorn, director

**Network Services**, Greg Schaffer, director

**Server, Classroom, and Desktop Services**, Jerry Gentry, assistant vice president

**Telecommunications Services**, Steve Prichard, director

**Student Affairs, Division of**

Robert K. Glenn, vice president and vice provost for enrollment management

**Academic Support Services**

Debra Sells, associate vice president

**Academic Support Center**, Laurie Witherow, director

**Career and Employment Center**, Martha Turner, director

**Child Care Lab**, Nancy James, director

**Cooperative Education**, Wayne Rollins, director

**Disabled Student Services**, John Harris, director

**Guidance Services**, Jane Tipps, director

**Housing and Residential Life**, Sarah Sudak, director

**International Education and Exchange Programs**,

Jennifer Campbell, director

**Leadership Development**, Deana Raffo, director

**New Student and Family Programs**, Gina Poff, director

**Student-Athlete Enhancement Center**, Jeanne Massaquoi, director

**Student Support Services**, Ginger Corley, director

**Enrollment Services**

Sherian Huddleston, assistant vice provost for enrollment services

**Admissions**, Lynn Palmer, director

**Financial Aid**, David Hutton, director

**International Programs and Services**, Tech Wubneh, director

**Records**, Teresa Thomas, interim director

**University Withdrawals**, Becky Garrett, coordinator

**Student Life**

J. David Hays, associate vice president and dean of Student Life

Gene Fitch, assistant vice president and director of Student

Affairs Research

**Adult Services Center**, Carol Ann Baily, director

**Campus Recreation Center**, Charles Gregory, director

**Multicultural Affairs**, Ralph Metcalf, director

**Student Health Services**, Richard Chapman, director

**Student Publications**, Virginia T. Crouch, director

**Student Unions and Programming**, director

**Women’s Center**, Susan Trentham, director

**The Tennessee Higher Education Commission**

Riley Darnell, Secretary of State

General Wendell Gilbert, Clarksville

William Ransom Jones, Murfreesboro

Debby Patterson Koch, Secretary, Nashville

Omar Lopez, Murfreesboro

John Morgan, State Comptroller

Jim Powell, Sr., Chair, Limestone

June Scobee-Rodgers, Signal Mountain

Dale Sims, Acting State Treasurer

Kevin Teets, Martin

A.C. Wharton, Jr., Vice-Chair, Memphis

Brad Windley, Vice-Chair, Tullahoma

Katie Winchester, Dyersburg

Douglas Wood, Nashville

Eleanor E. Yoakum, Knoxville

**The Tennessee Board of Regents**

Phil Bredesen, Governor of Tennessee, Chair, Nashville

Frank Barnett, Knoxville

Demetra Godsey Boyd, Clarksville

Edgar R. Bowers, Harriman

Kathryn Byrd, Maryville

Matthew B. Chapman, Mt. Juliet

Noble Cody, Cookeville

Robert Jack Fishman, Morristown

Tom H. Jackson, Nashville

Jonas G. Kisber, Jackson

W. Keith McCord, Knoxville

Leslie Parks Pope, Johnson City

Richard G. Rhoda, Executive Director, THEC, Nashville

J. Stanley Rogers, Manchester

Maxine Smith, Memphis

Lana Seivers, Commissioner of Education, Nashville

William H. Watkins, Jr., Memphis

Ken Givens, Commissioner of Agriculture, Nashville





# Accrediting Agencies and Memberships

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AACSB - The Association to Advance Collegiate  
Schools of Business

Accrediting Council on Education in Journalism  
and Mass Communications

Accreditation Board for Engineering and Technology/  
Computer Accreditation Commission

American Alliance for Health, Physical Education,  
Recreation and Dance

American Association of Airport Executives

American Association of Colleges and Universities

American Association of Collegiate Registrars  
and Admissions Officers

American Association of Colleges for Teacher Education

American Association of Colleges of Nursing

American Association of Family and Consumer Sciences

American Association for Leisure and Recreation

American Association of State Colleges and Universities

American Chemical Society

American College Testing Program

American Council on Education

American Dietetic Association

Aviation Technician Education Council

Certified Health Education Specialist

Commission on Accreditation of Allied Health Education  
Programs

Commission on Collegiate Nursing Education

Council for the Advancement and Support of Education

Council on Aviation Accreditation

Council on Social Work Education

Foundation for Interior Design Education Research

Fuld Institute for Technology in Nursing Education

National Air Transport Association

National Association for the Education of the Young Child

National Association for Sport and Physical Education

National Association of Industrial Technology

National Association of Schools of Music

National Association of Student Personnel Administrators

National Athletic Trainers' Association

National Business Aircraft Association

National Collegiate Athletic Association

National Commission for Health Education Credentialing

National Council for Accreditation of Teacher Education

National Intercollegiate Flight Association

National League for Nursing Accreditation Commission

National Recreation and Parks Association

Southern Association of Colleges and Schools

Southern Association for College Student Affairs

Southern Association of Collegiate Registrars and  
Admissions Officers

Sun Belt Conference

Teachers College Association of Extension and  
Field Services

Teacher Education Council of State Colleges and  
Universities

Technology Accreditation Commission of the Accreditation  
Board for Engineering and Technology

Tennessee Association of Colleges for Teacher Education

Tennessee Association of Collegiate Registrars  
and Admissions Officers

Tennessee Association of Science Department Chairs

Tennessee Association of Veterans Programs  
Administrators

Tennessee College Association

The College Board

The Renaissance Group

University Aviation Association

# Academic Support

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Middle Tennessee State University has a large and beautifully landscaped campus of approximately 500 acres and 153 permanent buildings totaling over 4 million square feet. Campus buildings are shown on a map printed in this catalog.

## Academic Advising

In addition to the academic assistance provided by the faculty, MTSU has academic college advisors in each undergraduate college. Academic college advisors assist students in their academic growth and adjustment to university life. The advisors work primarily with freshmen, transfers, and potential majors within a specific college, as well as with students in academic difficulty. Advisors counsel students regarding correct college courses, make referrals to faculty major advisors, assist students during CUSTOMS orientation and registration activities, and make referrals to Guidance Services.

The **Academic Support Center** (ASC) provides academic advising services for MTSU students with undeclared majors and students with courses in the Developmental Studies program. In addition to course selection and registration, ASC advisors will provide guidance and information to help students select appropriate majors early in their academic careers. Students interested in changing a major or exploring the majors MTSU has to offer should also visit the center. The Academic Support Center also coordinates learning communities, the community reading program, the Raider Book Clubs, and other academic initiatives. Any student seeking academic assistance is encouraged to contact an academic advisor through their college or the Academic Support Center.

## Art Department Slide Library

Located in Saunders Fine Arts 309, the Slide Library is a resource for the art faculty and for the University population at large. The library's 50,000 slides include examples of art from the prehistoric to contemporary era. (See also Art Department in this catalog.)

## Center for Energy Efficiency

The Center for Energy Efficiency, established in 1998 under the vice president for Finance and Administration in cooperation with Academic Affairs, supports the overall education and community service mission of the University by implementing energy efficiency activities designed to improve campus facilities and by providing educational opportunities to students and the professional community. The multifaceted center provides engineering and management services that promote efficient practices and environmental awareness and stewardship on campus, in the classroom, and in the broader institutional and business communities.

The center develops and implements energy efficiency projects through the Facilities Services Department for cam-

pus facilities, utility systems, and infrastructure. Energy saving performance contracting, new building design, operation and maintenance support, transportation and grounds support, metering, and utility procurement are other campus areas in which the center is involved. The center offers direct support of academic activities to enhance educational and training opportunities and experiences for students and faculty in the Engineering Technology and Industrial Studies Department and Environmental Science and Technology Program. The center is involved in curriculum development, teaching, and student project support as well as providing scholarships, internships, co-op opportunities, and job placement services. The center also provides professional energy-related training and consulting services to higher education institutions, public and private sector agencies, companies, and individuals. Associations with state and federal agencies and professional energy and engineering organizations offer continuing leadership in meeting rapidly changing energy management needs.

## Center for Health and Human Services

The Center for Health and Human Services is a federation of academic units that share the common goal of preparing the health and human services workforce in Tennessee. Coordinated by the chairholder of the Adams Chair of Excellence in Health Care Services, the center encourages quality interdisciplinary education, research, and service programs in health and human service areas. MTSU programs affiliated with this center include Aging Studies, Athletic Training, Child Development and Family Studies, Communication Disorders, Criminal Justice Administration, Early Childhood Education, Environmental Science and Technology (Environmental Health and Safety), Exercise Science and Health Promotion, Family and Consumer Studies, Health Education, Health Sciences (pre-nuclear medicine technology, pre-radiation therapy technology), Nursing, Nutrition and Food Science, Pre-professional Programs (pre-cytotechnology, -dental, -dental hygiene, -health information management, -medical, -medical technology, -occupational therapy, -pharmacy, -physical therapy), Psychology (mental health), Recreation and Leisure Services, and Social Work.

## Center for Historic Preservation

One of two Centers of Excellence at MTSU, the Center for Historic Preservation ([histpres.mtsu.edu/histpres](http://histpres.mtsu.edu/histpres)) was established in 1984. It is a research and public service institute committed to the preservation, protection, enhancement, and sensitive promotion of the historic environment. Through its varied projects, programs, and activities, the center responds directly to the needs and concerns of communities and organizations working to include heritage in their future economic development strategies. Providing leadership and assistance on a local, state, regional, and national basis, the center's work falls within four initiatives.



**Town and country preservation** recognizes the unique heritage, resources, and problems of rural areas and small towns. National Register nominations for individual buildings and historic districts are an ongoing priority of this initiative. The Tennessee Century Farm Program is a documentary and educational project for farms that have been in the same family for at least 100 years. The African-American Rural Church Project, also a continuing project, documents the state's historic black churches, often identifying schools and cemeteries as well.

**Heritage education** addresses the use of local historic resources as teaching tools in the K–12 grades. The center cooperates with the MTSU College of Education and Behavioral Science and local schools to develop and test new teaching materials and provide teacher-training workshops. The center also works closely with community heritage organizations to guide and assist them in preservation and education projects. The Heritage Education Network ([histpres.mtsu.edu/then](http://histpres.mtsu.edu/then)) is a national Web site for teachers sponsored in part by the National Center for Preservation Technology and Training. The center director also serves as the senior editor of the *Tennessee Historical Quarterly*, a valuable tool for high school and college teachers.

The **Tennessee Civil War National Heritage Area** ([histpres.mtsu.edu/tncivwar](http://histpres.mtsu.edu/tncivwar)) is the center's primary federal grant funded project. Created by Congress in 1996, the Heritage Area focuses on the preservation, interpretation, and heritage development of the multiple legacies of the Civil War and Reconstruction era in Tennessee. The center is the only university unit in the nation to serve as the administrative head of a National Heritage Area, which are partnership units of the National Park Service. The Heritage Area provides technical services to institutions, agencies, and property owners across the state and develops funding partnerships with groups, governments, and institutions which work with the center to establish joint projects and programs of long-lasting benefit to the state and nation. As part of the Heritage Area effort, the center plays an active role in the Alliance of National Heritage Areas and directs the Alliance's Heritage Development Institutes, which are professional training workshops held across the nation. The alliance provides support for graduate interns who participate in the workshop programs. The center also works closely with the Long Distance Trails Program of the National Park Service to document and develop preservation alternatives for National Register-eligible properties along the Trail of Tears in Tennessee.

The **museum and historic sites initiative** offers assistance to heritage museums in basic planning, adaptive restoration of historic buildings for museum use, collections management, and exhibit development. The center focuses on addressing the needs and problems of small museums.

Graduate-level staff teach two historic preservation courses each year for the Department of History and direct a large number of theses. The center funds a limited number of graduate research assistantships and fellowships each year. Graduate and undergraduate students work at the center to assist staff on a variety of applied research and public service projects, gaining valuable interdisciplinary experience to supplement their in-class training. The center's technical li-

brary and facilities are visited by and serve students, interested individuals, and preservation professionals.

One recent project, *The Tennessee Encyclopedia of History and Culture* Online Edition, is a partnership among the center, the Tennessee Historical Society, and the University of Tennessee Press. Launched in 2003, the encyclopedia Web site provides a comprehensive reference for the state's history.

### Center for Popular Music

The Center for Popular Music (CPM) is an archive and research center devoted to the study of American popular music from the Colonial era to the present. It was established in 1985 as one of sixteen Centers of Excellence at universities in the Tennessee Board of Regents system. The center's mission is to promote research and scholarship in American popular music and to foster an appreciation of America's diverse musical culture. To carry out this mission, the CPM maintains a large research library and archive; presents public programs that interpret various aspects of American vernacular music; engages in original research projects; and disseminates the results of research through publications in various media.

The CPM's library and archive is one of the largest and best popular music research collections in the country. Materials in the center's archive and library fall into three broad categories. First are extensive holdings of the various types of media in which music has been fixed and sold as a commodity. These include print materials such as sheet music, song books, song broadsides and songsters, and sound recordings in formats ranging from cylinders to compact discs. The center's sound archive is one of the largest in the country and consists of approximately 140,000 commercial sound recordings as well as many hours of unique unpublished recordings of music and interviews. The CPM's sheet music collection of approximately 65,000 items is the largest in the Southeast, and its library of gospel songbooks is one of the most extensive of any repository not associated with a religious organization. Second are various materials that are needed to study popular music in all its musical, cultural, historical, technological, and commercial contexts, including items such as photographs, posters, playbills, concert programs, trade catalogs, news clippings, and personal papers of musicians, songwriters, and business people. Third are books, periodicals, and other reference materials about popular music. The center has one of the largest and most comprehensive libraries of books and periodicals about popular music in the country.

Materials in the center's collection do not circulate but are available to anyone doing research on American popular music. The center's resources support undergraduate, graduate, and faculty research in a variety of disciplines and departments. In keeping with one of the aims of the Centers of Excellence program, the Center for Popular Music serves as a research resource for people far beyond the bounds of the University. Center staff members have fielded research queries from every state in the union and from foreign countries representing every continent except Antarctica. Authors, journalists,

media producers, performers, and students writing dissertations have all made use of the center's archive and library.

The center's public programs include lectures, conferences, symposia, and concerts of contemporary and historical popular music.

## Endowed Chairs

Several academic programs are enriched through the establishment of Chairs dedicated to the support of a particular discipline. The chairholders may be full-time faculty members or may be individuals from the appropriate business or professional field who are on campus for special seminars or lecture series.

Two Chairs, funded by gifts to the University Foundation, are administered through the Economics and Finance Department, of which the chairholders are members. More information is available through that department. The Chairs are

### **Martin Chair of Insurance**

### **Weatherford Chair of Finance**

MTSU houses nine **Chairs of Excellence**, established with a combination of private, University, and State funds. They are

### **The Jennings Jones Chair in Free Enterprise**

Jennings A. Jones College of Business

### **The Jennings Jones Chair in Urban and Regional Planning**

Jennings A. Jones College of Business

### **The John Seigenthaler Chair in First Amendment Studies**

College of Mass Communication

### **The Dr. Carl Adams Chair in Health Care Services**

Several departments

### **The National HealthCare Chair in Nursing**

School of Nursing

### **The Robert E. and Georgianna West Russell Chair in Manufacturing Excellence**

Engineering Technology and Industrial Studies Department

### **The Katherine Davis Murfree Chair in Dyslexic Studies**

Several departments

### **John C. Miller Chair in Equine Reproductive Physiology**

School of Agribusiness and Agriscience

### **Mary E. Miller Chair in Equine Health**

School of Agribusiness and Agriscience

## Albert Gore Research Center

The Albert Gore Research Center preserves and makes available for research a variety of historical documents and photographs. Its collections focus on the history of politics and public policy and on Middle Tennessee State University and the region it serves. The Gore Center assists a variety of researchers, including undergraduates; graduate students; MTSU administrators, faculty, and other scholars; the media; and citizens of the local community. The center is named for Albert Gore, Sr. (B.S., MTSU '32), whose papers from his

Congressional career (1939–1970) form the largest and one of the most important collections in the repository.

## Philip C. Howard Music Library

Located within Instructional Media Resources in McWherter Learning Resources Center, Room 101, Howard Music Library houses audio and video recordings and equipment, musical scores, and reference materials. Anyone with a valid MTSU ID may borrow scores. Recordings circulate only to faculty and staff but may be used by anyone in-house. The Howard Music Library is part of the McLean School of Music. (See also McLean School of Music in this catalog.)

## Information Technology

The MTSU Information Technology Division (ITD) supports computing and information technology resources on campus. ITD manages the campus network and MTSU's primary academic and administrative computing systems; provides telecommunication services for the campus; promotes and supports instructional technology, including faculty consultation and training and maintenance support for all campus technology-based classrooms; provides technical support and training for the use of microcomputer hardware and software; provides a help desk that never closes during the semester; supports MTSU's primary administrative applications such as student information, human resources, and PipelineMT; and administers the STA (Student Technology Assistant) program, the campus ID system, and the MTSU Web site.

Any MTSU student or faculty or staff member may have an account on the central server for accessing on-campus resources and state, regional, national, and international networks including the Internet. Students may activate their accounts at [www.mtsu.edu/changepw](http://www.mtsu.edu/changepw), on any Internet-accessible computer. The account will be ready to use within 10 minutes. Faculty and staff accounts are created upon completion of an application. The application forms are available online at [www.mtsu.edu/~itd/forms](http://www.mtsu.edu/~itd/forms) and at the Information Technology Division Office, Cope Administration Building, Room 3.

For more information, call the ITD help desk at 898-5345 or e-mail [help@mtsu.edu](mailto:help@mtsu.edu).

## Instructional Media Resources (Media Library)

Instructional Media Resources (IMR), located in McWherter Learning Resources Center, Room 101, manages a large collection of videotapes, DVDs, laserdiscs, audio tapes, CDs, and CD-ROMs. It also features study rooms and carrels, an open computer lab with both Macintosh and Pentium computers, laser printers and scanners, and typewriters available for walk-in use by faculty and students. Faculty members may check out all materials, reserve IMR materials, and place their own multimedia resources on reserve in the Media Library for use by their students. Staff and students may view video materials in the Media Library and may check out audio materials.

## The Instructional Technology Support Center

The Instructional Technology Support Center (ITSC), in the McWherter Learning Resources Center, provides facilities, training, and support for the use of instructional technology by MTSU faculty, MTSU students, and K–12 teachers. The ITSC consists of several related units and facilities, including Audio/Visual Services, Instructional Media Resources, two computer labs, a graduate student multimedia development center, a twenty-first century classroom, and a satellite videoconferencing center.

Two PC computer labs and one PC/Macintosh computer lab are available in the ITSC for use by faculty and students. A description of the hardware and software in the computer labs and a monthly listing of open hours are posted on the ITSC Web page ([www.mtsu.edu/~itsc](http://www.mtsu.edu/~itsc)). Graduate students can create multimedia projects or presentations at four multimedia development stations in the ITSC.

**Audio/Visual Services** maintains an inventory of audio/visual equipment for faculty check-out, repairs campus audio/visual equipment, provides dubbing services, records off-air programming for classroom use, and supports satellite services. Audio/Visual Services also offers professional video production services for MTSU faculty and administrators, including studio production, remote production, post production, and satellite uplinks and downlinks.

**Instructional Media Resources (Media Library)** - See page 11.

The **Satellite Videoconferencing Center** offers quality educational programming to K–12 schools by satellite to nine rural Tennessee counties and by cable television to viewers in Rutherford and two other middle Tennessee counties. The satellite facilities can be scheduled by units across campus for local, statewide, or national broadcast of special events and programs. Both digital and analog C-band transmission options are available.

## Keathley University Center— James Union Building

The Keathley University Center and James Union Building are service-oriented buildings for the use of the campus community. Services and facilities include

- a modern, self-service bookstore;
- a complete-service post office with individual mailboxes available;
- a mini-market with a variety of snacks;
- meeting rooms, ballroom, and auditorium for clubs, organizations, and campus-sponsored programs;
- diversified programs which include movies, musical groups, speakers, dances, and cultural events all planned and presented by student committees; and
- food services including the Keathley University Center Grill and James Union Building banquet and luncheon services.

## Libraries and Archives

Numerous library and archive resources are located on the MTSU campus. Copying of materials housed in these facilities is permitted only in compliance with federal copyright statutes and in accordance with departmental rules and regulations. Resources include Art Department Slide Library, Center for Popular Music, Gore Center, Howard Music Library, Instructional Media Resources, Walker Library, and Women's Studies Library. Detailed information about each is in this section.

## McWherter Learning Resources Center

The McWherter Learning Resources Center provides the opportunity for a different approach to learning. Completed in 1975, this unique 65,000 square-foot facility received national recognition for the award-winning design and is considered a model by other institutions throughout the region. The McWherter Learning Resources Center is the primary facility for teacher education programs and provides instructional technology support to faculty and programs at MTSU as well as area school districts.

In addition to the Instructional Technology Support Center, the support areas of Photographic Services and Publications and Graphics have the dual responsibility of producing materials for classroom use and for serving the entire University community's photography and publication needs. Also housed in the facility are the WMOT-FM Radio Station and the Albert Gore Research Center.

## Murphy Center

Charles M. Murphy Center is a multipurpose building for instruction, recreation, athletics, and convocations. This versatile structure provides facilities that enhance total health, physical education, recreation, and safety programs as well as house outstanding athletic and entertainment events. The complex includes the Monte Hale Basketball Arena, two auxiliary gymnasiums, four handball courts, classrooms, two dance studios, an indoor track, indoor tennis courts, men's and women's dressing rooms, and weight training equipment. The student ID office is located in Murphy Center (track level).

## Parking and Transportation Services

The Parking and Transportation Services Office issues parking permits and enforces parking regulations for the MTSU community.

All students (including part-time, full-time, graduate students, night students, etc.), administrators, faculty, and staff (whether full- or part-time) intending to park a vehicle on campus must obtain a permit through Parking and Transportation Services and place the permit on or in the vehicle being operated on campus. Each individual is responsible for violations received by any vehicle bearing his/her parking permit.



## Public Safety

The Department of Public Safety maintains 24-hour coverage with police patrol and communications operators and is responsible for the safety and protection of the MTSU community. Services provided include law enforcement, communication of emergency services, building security, escorts, and general assistance to students.

### College and University Security Information Act

Pursuant to the provisions of the "College and University Security Information Act," Public Chapter No. 317, enacted by the 1989 General Assembly, Middle Tennessee State University makes available crime rates and statistics as well as security policies and procedures to interested parties. Persons wishing to review or receive a copy of this information, may contact Chief Jack Drugmand, Public Safety Department, Middle Tennessee State University, Murfreesboro, TN 37132, (615) 898-2424.

*Information to help avoid becoming a victim of crimes such as theft and sexual assault is available in the MTSU Student Handbook, the Fall and Spring Schedule Books, and the Public Safety Orientation calendar.*

## Religious Opportunities

The Philosophy Department offers courses for academic credit in religious studies. In addition, every MTSU student is encouraged to attend worship services of his/her choice. The University seeks neither to promote nor to exclude any creed. Campus ministries are located in facilities that border the campus; these include the Baptist Student Union, Christian Center, Wesley Foundation, Presbyterian Student Fellowship, and Catholic Student Center.

## Statement of Community Standards of Civil Behavior

Middle Tennessee State University is committed to sustaining an environment of tolerance for diversity among its students, staff, and faculty. In addition, the University acknowledges a responsibility for encouraging all members of the community to observe certain standards of civility in their interactions with one another. The choice to associate one's self with this fellowship of scholars is freely made by each participant, but obligates those who do join to observe the following expectations for civilized conduct within the MTSU community:

- the practice of personal honesty in all matters;
- a positive regard for the dignity and value of each citizen in the community;
- respect for the individual rights and possession of community members;
- disdain for bigotry and hatred expressed in any form or medium and directed toward identifiable groups or individuals in the community;
- tolerance for the convictions and opinions of others, even when not in agreement with one's own beliefs;
- a recognition of community members' mutual needs and concerns, and acceptance of a responsibility held in common to support the personal growth and efforts of each individual in furtherance of the well-being of the entire community.

## Student-Athlete Enhancement Center

MTSU's Student-Athlete Enhancement Center is the academic support program for over 300 student-athletes in 17 NCAA sports. Center personnel monitor the student-athlete's progress toward a degree and are committed to the academic growth of our student athletes.

Facilities for the Student-Athlete Enhancement Center are located at the Football Stadium and include administrative offices, tutoring rooms, a computer center, and a study hall open 67 hours per week.

The center provides an atmosphere of personal attention and encouragement as well as tutorial assistance, advice during registration, and recognition for academic accomplishments.

The center is also a member of the NCAA Life Skills Program, a five-point commitment program dedicated to assisting the student-athlete in developing skills to cope with every aspect of life. Some of the seminars and workshops presented to the student-athletes include instruction in communication skills, social development, value and ethics awareness, emotional health, fiscal responsibility, community outreach, and career development.

## James E. Walker Library

The James E. Walker Library is an important resource for a quality education. The library offers a beautiful facility for study and a broad collection of books, periodicals, and information databases.

The centrally located facility opened in January 1999, providing expanded resources for student research, inquiry, reading, study, and discussion. The collections of materials and services support course assignments, term papers, general reference, projects, and student research. The facility provides a variety of individual and group study areas as well as 300 computers for accessing both local and international information resources. Special features of the library include group studies, two instruction rooms for learning how to use library resources, Special Collections, and an Adaptive Technologies Center to meet needs of students with disabilities.

Librarians are available to help with reference, research, and information and students are encouraged to ask questions. With their university ID cards, students can access all books, periodicals, and electronic databases in the library collection. Classes and individual instruction sessions are offered on the use of library resources, and research guides are published to provide further information about collections and services.

More information can be found on the library's Web site at [www.mtsu.edu/~library](http://www.mtsu.edu/~library).

## Women's Studies Library

The Women's Studies Program, located in Peck Hall 109B, maintains a collection of materials related to women's and gender studies. Most volumes circulate. (See also Women's Studies Program in this catalog.)



# Continuing Studies and Public Service

**Rosemary Owens, Dean**  
**Cope Administration Building 119**

The purpose of the Division of Continuing Studies and Public Service at Middle Tennessee State University is to extend services of the University to adults, individuals, and groups beyond the resident students on campus. The division is divided into two main areas—credit and noncredit. The credit area coordinates distance learning, off-campus courses, summer school, evening classes, and the Regents Online Degree Program. The noncredit area caters to professionals interested in updating skills, groups or organizations desiring some type of educational experience, or persons needing any of the noncredit services outlined below. More information on either of these areas can be obtained by contacting the Division of Continuing Studies and Public Service, (615) 898-2462. Additional information may be obtained by visiting [www.mtsu.edu/learn](http://www.mtsu.edu/learn).

## Credit Area

### Distance Learning Courses

Distance learning courses, coordinated through the Division of Continuing Studies and Public Service, include courses via videoconferencing, telecourses, correspondence courses, and online courses.

- **Videoconferencing Courses** - Videoconferencing courses send the instructor's "live" lectures at MTSU to students at the remote sites. Sites include Spring Hill, Franklin, and Columbia State Community College. The videoconferencing classrooms are equipped with TV monitors and push-to-talk microphones so students and instructors can interact. The instructor will visit the remote sites during the semester to assure that each student will have an opportunity to meet him/her in person. The instructor is also available during office hours at MTSU by phone, e-mail, or in person.
- **Telecourses** - Telecourses are delivered primarily over cable television. Students are required to attend an orientation and two examinations on campus. Instead of attending lectures on campus, telecourse students watch approximately one hour of programs each week. The telecourses are available on several local channels and in the McWherter Learning Resources Center. Telecourse tapes may also be rented. In addition, students read their texts and study guides and submit assignments as scheduled. Teachers are available at set times for consultation. More information may be obtained by calling (615) 898-5426 or visiting the telecourse home page at [www.mtsu.edu/learn/telecourse](http://www.mtsu.edu/learn/telecourse).
- **Correspondence Courses** - Correspondence courses involve individual, independent instruction of a student by an instructor on a one-to-one basis. Typically, this entails home study as well as the exchange of materials and evaluations through the mail. Interaction and feedback between correspondence course faculty and students take the form of written assignments, testing, evaluations, guidance, and assistance via such media as telephone, fax, e-mail, and other electronic technologies. More information may be obtained via e-mail at [corres@mtsu.edu](mailto:corres@mtsu.edu) or by calling (615) 898-5332.

- **Online Courses** - Online courses are accessed over the Internet through e-mail, newsgroups, distribution lists, and the World Wide Web. Only students with strong experience on the Internet should register for an online course. Students are required to have access to a computer and the Internet. Students must attend at least one proctored examination and must complete assignments. A photo ID must be presented at all exams. All other assignments and quizzes will be available through the Internet. Additional information may be obtained by visiting [www.mtsu.edu/online](http://www.mtsu.edu/online).

More information is available by calling (615) 898-5611. The current schedule book carries course offerings.

### Evening School

The Division of Continuing Studies and Public Service serves students attending MTSU at night by assisting with registration, accepting payment of fees/fines for the Business Office, providing catalogs and schedule books, making IDs, issuing parking permits, and offering other services to students outside regular daytime business hours. More information is available by contacting the Evening School Office, (615) 898-5611.

### Off-campus Program

Credit courses are regularly scheduled at several off-campus locations in middle Tennessee, including Smyrna, Spring Hill, Franklin, and Columbia State Community College. Efforts are made to service any special requests for off-campus credit courses by business and industry, school systems, and agencies.

### Summer School

The Division of Continuing Studies and Public Service directs the summer school, which includes a substantial number of credit courses. Course offerings are available in the current summer schedule book.



### Regents Online Degree Program

Middle Tennessee State University and each of the colleges and universities in the Tennessee Board of Regents (TBR) system are working cooperatively to allow students to earn college degrees entirely online. The joint program is called the Regents Online Degree Program (RODP).

The online program currently includes a Bachelor of Science degree with a major in Liberal Studies or a Bachelor of Science degree with a major in Professional Studies and concentrations in Information Technology and Organizational Leadership. Students must earn a minimum of 120 hours; meet MTSU upper-division, residency, and senior hour requirements; meet MTSU General Education requirements; meet MTSU GPA requirements; and complete the courses outlined in the degree program. Admissions, instruction, advising, library services, and other forms of student assistance are available online. The Regents online courses have been designed to be taught totally online in an interactive, asynchronous format.

Designed especially for adults who already have some college experience, the online degree program is also appropriate for students who have earned or are working on associate's degrees. For more information regarding degree requirements, please refer to the Regents Web site at [www.tn.regentsdegrees.org](http://www.tn.regentsdegrees.org) or call (615) 898-5611.

## Lifelong Learning

### A World of Opportunities

The division's Lifelong Learning (noncredit) initiative promotes and provides diverse opportunities that enhance the professional and personal lives of middle Tennessee residents. Our diverse educational opportunities, quality programs, and dedicated services give students access to the vast and valuable resources of our University. We go the distance to make lifelong learning a reality for anyone, anywhere, because we believe everyone deserves the opportunity to improve his or her quality of life through higher education. A current course catalog is available by calling (615) 898-2462 or online at [www.mtsu.edu/learn/noncredit/index.htm](http://www.mtsu.edu/learn/noncredit/index.htm).

### Business

Lifelong Learning serves the business community in the middle Tennessee region by seeking solutions through an educational environment. We provide numerous opportunities for professional development as an extension of Middle Tennessee State University. Through our business area we conduct such programs as Achieve Global (formerly Zenger-Miller), American Management Association, American Payroll Association, Human Resource (Society of Human Resource Management), Real Estate, Nissan Business Writing Course, and Saturn Landscape Course.

### Government and Education

The government and education area works with all branches of government and establishes programs to enhance the professional development of K-12 educators. Through this avenue we conduct such programs as ACT Preparation, LSAT Preparation, Conversational Spanish I and II, Survival Spanish for Business, Survival Spanish for Construction, Survival Spanish for Law Enforcement, Survival Spanish for Medicine, Sign Language, Beginners Japanese, English as a Second Language, and NCA Cheerleaders.

### Medical and Health Services

This area offers both valuable continuing education for professionals and unique training opportunities for those interested in the health care field. Through our medical and health services area we conduct such programs as Emergency Medical Technician, Massage Therapy, CPR, First Aid, Continuing Education for Health Care Professionals, Nursing CEUs, Massage Therapy Intern Clinic, Athletic Training Assistants, and Survival Spanish for Health Care Professionals.

### Recreation and Leisure

Through recreation and leisure we conduct such programs as Introduction to Fly Tying, Landscape Design, Ballroom Dancing, Feng Shui in the Home, Riding and Street Skills (for beginners), the Experienced Motorcycle Rider Course (for experienced riders), and the Tennessee Walking Horse Camp.

### Technology

In this area we conduct such programs as Linux/UNIX Fundamentals, Linux/UNIX System Administration and Tools, A+ Certification, Network+ Certification, Computer-Based Training Courses, Certificate in Computer Technology, Web Publisher Certification, Education To Go, and MOS Testing.

### Workforce Development and Corporate Training

The noncredit area offers various human resource services for business, industry, and government, including customized on-site training, needs assessments, and specialized workforce analysis. Current programs include team building, customer service, leadership, supervision, written and interpersonal communication, and language training.

Professional development certification programs, seminars, workshops, and short courses that focus on timely and leading-edge topics are presented on and off campus. Current client groups include human resource managers, municipal clerks, engineers, lawyers, accountants, cosmetologists, emergency medical technicians, government officers, payroll administrators, and physician groups. Inquiries should be directed to Lifelong Learning at (615) 898-2462.

# College of Graduate Studies

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**Abdul S. Rao, Vice Provost for Research and Dean, College of Graduate Studies  
Cope Administration Building 114**

Graduates of Middle Tennessee State University and of other accredited institutions are eligible to apply for admission to the College of Graduate Studies.

All applicants for a degree program must complete an application, pay an application fee, provide official transcripts from each college or university attended (except MTSU), provide any required references, and meet entrance test requirements as set forth in the **Graduate Catalog**.

International students must submit a financial statement and a score on the Test of English as a Foreign Language (TOEFL) (computer-based minimum score 173, paper-based minimum score of 525). Please see the Graduate Catalog for further information.

Admission to the College of Graduate Studies does not imply admission to a graduate program or candidacy for a degree.

Seniors at MTSU with 98 semester hours credit will be allowed to take graduate work for a total of no more than 12 semester hours upon approval of the undergraduate advisor, the graduate program advisor, and the graduate dean. An application form must be obtained from the Graduate Office. The Jennings A. Jones College of Business does not have such a program. Graduate work (5000-, 6000-, and 7000-level courses) may not be used toward an undergraduate degree. Not all graduate courses are offered to undergraduates. Permission is not guaranteed.

## Graduate Programs

Graduate degrees offered are listed on page 18. Details of available graduate study, courses offered, and specific degree requirements may be found in the **Graduate Catalog**.

## Master's Degrees

Many departments at MTSU offer graduate programs leading to a master's degree. A student's program of study is directed by the major department, subject to the approval of the graduate dean. Fields in which the degrees may be earned are listed in the academic inventory beginning on page 18 and in the following list of graduate majors:

Accounting/Information Systems  
Administration and Supervision  
Aerospace Education  
Aviation Administration  
Biology  
Business Administration  
Business Education  
Chemistry  
Computer Science  
Criminal Justice Administration  
Curriculum and Instruction  
Economics  
English  
Exercise Science and Health Promotion  
Foreign Languages  
Health, Physical Education, Recreation  
History  
Human Sciences  
Industrial Studies  
Mass Communication  
Mathematics  
Music  
Psychology  
Reading  
School Counseling  
Sociology  
Special Education

## Graduate Certificate Programs

Certificates of completion of core curricula are available in Art Education, Critical Care Nursing, Dyslexic Studies, Geoscience, Gerontology, Health Care Management, and Nursing Informatics.

## Specialist in Education Degree

The Specialist in Education degree (Ed.S.) is offered in Administration and Supervision and in Curriculum and Instruction.

## Doctor of Arts Degree

The Doctor of Arts degree (D.A.) is offered in Chemistry and History. An applicant for admission must hold a master's degree or its equivalent from an accredited institution.

## Doctor of Philosophy Degree

The Doctor of Philosophy degree (Ph.D.) is offered in Economics, English, and Human Performance. The Ph.D. in Human Performance includes specializations in Health, Physical Education Pedagogy, Exercise Science, and Leisure Services.

# A STUDENT AT MTSU

Middle Tennessee State University, a coeducational, tax-supported institution, is located in Murfreesboro less than a mile from the exact geographic center of the state. Murfreesboro, a historic city of over 72,000, is 32 miles southeast of Nashville via I-24 and is easily accessible from any direction. MTSU students and personnel can enjoy the advantages of a metropolitan atmosphere without the impersonalization associated with a big city.

The University is made up of six undergraduate colleges—the College of Basic and Applied Sciences, the Jennings A. Jones College of Business, the College of Education and Behavioral Science, the College of Liberal Arts, the College of Mass Communication, and the University Honors College—and a College of Graduate Studies. MTSU offers curricular breadth in a variety of programs ranging from traditional ones on which the school was founded to new, innovative ones designed for a rapidly changing society. Designated a regional university, MTSU provides services and continuing education to the central Tennessee area.

Some 77 percent of the school's 825 full-time faculty members hold the earned doctorate. The 21,000 plus student body comes from 94 Tennessee counties, 47 states, and over 90 foreign countries.

The following section includes information to help high school students select courses they need for admission to college; the procedures and costs for becoming a student at MTSU; the ways to apply for financial aid and on-campus housing; and regulations and degree requirements for students already enrolled. The General Education requirements referred to throughout the catalog are in this section. Additional information about MTSU may be requested from the Admissions Office or found on the Web site, [www.mtsu.edu](http://www.mtsu.edu).





# Academic Inventory

Middle Tennessee State University has been authorized to grant the following degrees:

## Undergraduate

Bachelor of Arts (B.A.)  
 Bachelor of Business Administration (B.B.A.)  
 Bachelor of Fine Arts (B.F.A.)  
 Bachelor of Music (B.M.)  
 Bachelor of Science (B.S.)  
 Bachelor of Science in Nursing (B.S.N.)  
 Bachelor of Social Work (B.S.W.)  
 Bachelor of University Studies (B.Unv.S.)

## Graduate

Master of Arts (M.A.)  
 Master of Arts in Teaching (M.A.T.)  
 Master of Business Administration (M.B.A.)  
 Master of Business Education (M.B.E.)  
 Master of Criminal Justice (M.C.J.)  
 Master of Education (M.Ed.)  
 Master of Science (M.S.)  
 Master of Science in Nursing (M.S.N.)  
 Master of Science in Teaching (M.S.T.)  
 Specialist in Education (Ed.S.)  
 Doctor of Arts (D.A.)  
 Doctor of Philosophy (Ph.D.)

On the following pages is a summary of the degrees offered in each department or school with the available majors, concentrations, and certificate programs listed. Degree requirements are outlined in the appropriate catalog sections following.

Department/School	Major	Concentration	Degree Offered	Undergraduate Minor	Graduate Minor
<b>College of Basic and Applied Sciences</b>					
Aerospace, p. 98	Aerospace	Administration	B.S.		
		Flight Dispatch and Sched.	B.S.		
		Maintenance Mgmt.	B.S.		
	Aviation Administration	Professional Pilot	B.S.	Aerospace	Aerospace
		Technology	B.S.		
	Aerospace Education	Airline/Airport Mgmt.	M.S.		
		Aviation Asset Mgmt.	M.S.		
			M.Ed.		
Agribusiness and Agriscience, p. 105	Agribusiness	Agri. Communication	B.S.		
		‡Pre-Agri. Engineering	B.S.		
	Animal Science	Agri. Communication	B.S.		
		Horse Science	B.S.		
Plant and Soil Science	Agri. Communication	B.S.			
	‡Pre-Forestry	B.S.			
				Agriculture	Agriculture
Biology, p. 112	Biology	Animal Biology	M.S.		
		General Biology	B.S.		
		Genetics and Biotechnology	B.S.		
		Physiology	B.S.		
		Plant Biology	B.S.		
		Microbiology	B.S.		
Chemistry, p. 117	Chemistry	Prof. Chemistry	B.S.;M.S.;D.A.	Chemistry	Chemistry
			B.S.		
	Science	General Science	B.S.		
		Health Science	B.S.		
		‡Pre-cytotechnology			
		‡Pre-dental			
		‡Pre-dental Hygiene			
		‡Pre-health Info. Mgmt.			
		‡Pre-medical			
		‡Pre-medical Tech.			
		‡Pre-occupational Ther.			
		‡Pre-pharmacy			
	‡Pre-physical Therapy				
	‡Pre-nuclear Medicine Tech.				
	‡Pre-radiation Therapy Tech.				
				Science	

‡These programs are not officially recognized concentrations within the degree programs and do not lead directly to a degree at MTSU.

Department/School	Major	Concentration	Degree Offered	Undergraduate Minor	Graduate Minor
<b>Computer Science, p. 126</b>	Computer Science	Business Applications	B.S.;M.S. B.S.	Computer Science	Computer Science
<b>Engineering Technology and Industrial Studies, p. 129</b>	Concrete Industry Management Engineering Technology	Computer Eng. Tech. Electro-Mech. Eng. Tech. Mechanical Eng. Tech.	B.S. B.S. B.S.	Env. Sci. Tech.  Construction Mgmt. Electronics Industrial Technology Industrial Education	Industrial Studies Voc. Tech. Ed.
	Environmental Sci. and Technology	Energy Technology Environ. Health and Safety Planning and Site Analysis Water and Waste Mgmt.	B.S. B.S. B.S. B.S.		
	Industrial Technology	Construction Mgmt. Tech. Ind. Mgmt. Tech. ‡Pre-engineering ‡Pre-architecture	B.S. B.S.		
	Eng. Tech. and Ind. Studies	Eng. Technology Ind. Relations Occup. Health and Safety	M.S. M.S. M.S.		
<b>Mathematical Sciences, p. 142</b>	Mathematics	Actuarial Science	B.S.	Mathematics Math for Mng. Soc. and Life Sci. Statistics	Mathematics
		Applications of Math	B.S.		
		Math Education	B.S.		
		Professional Math	B.S.		
		General Math	M.S.		
		Industrial Math	M.S.		
		Research Preparation	M.S.		
		Middle Grade Math	M.S.T.		
		Middle Grade Math	M.S.T.		
		Middle Grade Math	M.S.T.		
<b>Military Science, p. 150</b>	none			Military Science	
<b>Nursing, p. 152</b>	Nursing Critical Care Nursing Informatics		B.S.N. Grad. Cert. Grad. Cert.		
<b>Physics and Astronomy, p. 156</b>	Physics		B.S.	Physics Electro-Acoustics	Physics
	University Studies		B.Unv.S.		
<b>Jennings A. Jones College of Business</b>					
<b>Accounting, p. 165</b>	Accounting		B.B.A.	Accounting Business Law Comb. Actg./Infs.	Accounting
	Accounting/Information Systems	Actg. as primary field	M.S.		
<b>Business Education, Marketing Education, and Office Management, p. 168</b>	Business Education		B.S.;M.B.E.	Business Educ. Marketing Educ.	Business Educ.
	Office Management		B.B.A.	Office Mgmt. Business Comm.	
	Entrepreneurship		B.B.A.	Entrepreneurship	

‡These programs are not officially recognized concentrations within the degree programs and do not lead directly to a degree at MTSU.

## 20 Academic Inventory

Department/School	Major	Concentration	Degree Offered	Undergraduate Minor	Graduate Minor
<b>Computer Information Systems, p. 172</b>	Information Systems		B.B.A.		
	Accounting/Information Systems	Inf. as primary field	M.S.	Information Sys. Comb. Actg./Inf.	Information Sys.
<b>Economics and Finance, p. 175</b>	Economics	Labor Relations Public Finance Industrial Rel. Financial Economics	B.B.A.;\$B.S.;\$M.A.;Ph.D. B.B.A. B.B.A.. M.A. M.A.	Economics Economics/Finance Industrial Rel.	Economics
	Finance	Business Fin. Fin. Inst. Mgmt. Insurance Real Estate	B.B.A. B.B.A. B.B.A. B.B.A.	Finance Insurance Real Estate Real Estate/Ins.	
<i>\$Liberal arts degrees administered by the Department of Economics and Finance</i>					
<b>Management and Marketing, p. 181</b>	Business Administration		B.B.A.;M.B.A.	Business Admin. Entrepreneurship	
	Management		B.B.A.	Management	
	Marketing		B.B.A.	Marketing Mgmt./Mkt.	
<b>College of Education and Behavioral Science</b>					
<b>Criminal Justice, p. 191</b>		Law Enforcement	B.S.	Crim. Just. Admin.	Crim. Just. Admin.
<b>Educational Leadership, p. 193</b>	Administration and Supervision		M.Ed.;Ed.S.		
	Curriculum and Instruction	Library Science English as a Second Lang.	M.Ed. M.Ed.;Ed.S. M.Ed.	Second. Education Education (Non-Teach.)	Library Science Education
<b>Elementary and Special Education, p. 195</b>	Interdisciplinary Studies		B.S.		
	Special Education	#Grades K-6 #Grades 5-8	B.S.		
	Reading	#Mildly/Mod. Disabled #Sev./Profoundly Disabled Mildly/Mod. Dis. Stu. Preschool Dis. Stu. Sev./Profoundly Dis. Stu. Vision Disabilities	M.Ed. M.Ed. M.Ed. M.Ed.	Special Educ.	Special Educ.
	Curriculum and Instruction	Early Childhood Elementary School Educ. Middle School Educ.	M.Ed. M.Ed.;Ed.S. M.Ed.		Reading
	Dyslexic Studies		Grad. Cert.		Curric. and Inst.

#These programs are not officially recognized concentrations within the degree programs

Department/School	Major	Concentration	Degree Offered	Undergraduate Minor	Graduate Minor
<b>Health, Physical Education, Recreation and Safety, p. 199</b>	Athletic Training		B.S.		
	Health Education	Hlth. Sci. and Tech. Hlth. Educ. and Lifetime Well. Community and Public Health	B.S. B.S. B.S.	Ath. Trn./Sports Med.	
	Physical Education	Wellness and Exer. Science	B.S. B.S.	Health Hlth. and Phy. Educ.	Health
	Recreation and Leisure Services	Outdoor Recreation Recreation Administration Recreational Therapy	B.S. B.S. B.S.	Physical Ed. Athletic Coaching	Physical Ed.
	Exer. Sci. and Hlth. Promotion Hlth., Phy. Ed., Rec.		M.S.	Recreation Driv. and Tr. Sfty. Ed.	Recreation
		Health Physical Education Recreation Sport Management	M.S. M.S. M.S. M.S.		
	Human Performance		Ph.D.		Safety
<b>Human Sciences, p. 210</b>	Early Childhood Education Fam. and Con. Studies	Fam. and Con. Sci. Educ. Child Dev. and Fam. Stud.	B.S. B.S. B.S. B.S.		
	Interior Design Nutrition and Food Science	Dietetics	B.S. B.S.	Nutrition and Food Science	
	Textiles, Merchandising, and Design	Apparel Design Fashion Merch.	B.S. B.S.	Tex., Merch., and Design	
	Human Sciences	Child Dev. and Fam. Stud. Nutr. and Food Science	M.S. M.S.	Human Sciences	Human Sciences
<b>Psychology, p. 218</b>	Psychology	Pre-graduate School	B.S. B.S.		
		Clinical Experimental Indus./Organizational Pre-Spec. Ed.-Sch. Psy. Quantitative	M.A. M.A. M.A. M.A. M.A.	Mental Health Services Life Span Development Behavioral Research**	
	Indus./Organizational		B.S.	Psychology	Psychology
	School Counseling Curriculum and Instruction	School Psychology	M.Ed. Ed.S.	Indus./Organizational	
<b>College of Liberal Arts</b>					
<b>Art, p. 226</b>	Art	Graphic Design Studio	B.F.A. B.F.A.		
	Art History*	Modern and Contem. Art Medieval and Renaissance Non-Western: pre-Colum, Lat. Am., African, Afr. Am.	B.A. B.A. B.A.	Art Art History	Art
	Art Education		B.S.;Grad. Cert.	Art Education	
<b>English, p. 232</b>	English	Sec. English Teacher Lic.	B.A.;M.A.;Ph.D. B.A.	English Film Studies** Great Books** Writing**	English



## 22 Academic Inventory

Department/School	Major	Concentration	Degree Offered	Undergraduate Minor	Graduate Minor
Foreign Languages and Literatures, p. 237	Foreign Languages	French	B.A.;B.S.;M.A.T.	French	
		German	B.A.;B.S.;M.A.T.	German	
		Spanish	B.A.;B.S.;M.A.T.	Spanish Classical Studies** Early Mod. Eur. Studies** Latin Am. Studies** Linguistic Studies** Russian Studies**	Foreign Languages
Geosciences, p. 243	Geoscience	Geography	Grad. Cert. B.S.	Geography	Geography
		Geology	B.S.	Geology/Earth Science Remote Sensing	Earth Sci./Geology
History, p. 249	History		B.A.;M.A.;SD.A.	History American Culture** Environment and Human Society** Media, History, and Culture** Medieval Studies** Southern Studies** Twen. Cent. Eur. Stud.**	History
		Public History Hist. Preservation	M.A. SD.A.		
<i>SD.A. is being phased out to coincide with 2005 implementation of Ph.D.</i>					
Music, p. 254	Music	Inst. Music Educ.	M.A.		
		Inst. Perform. Jazz Studies Music Industry Theory-Comp. Vocal/General Music Educ. Voice Perform.	B.M. B.M. B.M. B.M. B.M. B.M.	American Music Studies Music Music Industry	Music
Philosophy, p. 267	Philosophy		B.A.	Philosophy Religious Studies	
Political Science, p. 269	Political Science	Pre-law Public Admin.	B.A.;B.S. B.A.;B.S. B.A.;B.S.	Political Science Public Administration	Political Science
		International Relations	B.S.	International Rel. Paralegal Studies** Russian Studies** Urban Studies** Urban Planning	
Social Work, p. 274	Social Work		B.S.W.	Social Welfare Health Care Services**	
Sociology and Anthropology, p. 277	Sociology	Sociology	B.S.;M.A. B.A.	Criminology Sociology Family Studies	Sociology
	Anthropology	Anthropology	B.A. B.S.	Anthropology Archaeology** Asian Studies** Native American Studies**	Gerontology

\*\*Interdisciplinary Minors

Department/School	Major	Concentration	Degree Offered	Undergraduate Minor	Graduate Minor
Speech and Theatre, p. 282	Speech and Theatre	Communication Disorders Communication Studies Theatre	B.A.;B.S. B.A.;B.S. B.A.;B.S.	Speech and Theatre Comm. Disorders Dance Entertainment Arts Design Leadership Studies**	Speech and Theatre
	Organizational Communications		B.S.		
	University Studies		B.Unv.S.		
African-American Studies** Aging Studies** Global Studies** Women's Studies**					
<b>College of Mass Communication</b>					
	Mass Communication		M.S.	Mass Comm	Mass Comm
<b>Electronic Media Communication, p. 294</b>	Mass Communication	Digital Media Communication Photography Electronic Media Comm.	B.S. B.S. B.S.		
<b>Journalism, p. 302</b>	Mass Communication	Adv./Public Rel. Media Design and Graphics Journalism	B.S. B.S. B.S.		
<b>Recording Industry, p. 307</b>	Recording Industry	Music Business Prod. and Tech.	B.S. B.S.	Entertainment Technology Recording Industry	
	Gerontology		Grad. Cert.		
	Health Care Management		Grad. Cert.		

\*\*Interdisciplinary Minors

Following are degree programs offered in cooperation with the Tennessee Board of Regents. For additional information about the Regents Online Degree Program (RODP), see page 15.

**Regents Online Degree Program, (615) 898-5611**

Liberal Studies			B.S.		
Professional Studies		Information Technology	B.S.		
Adv. Studies in Teach. and Learning		Organizational Leadership	B.S.		
Nursing		Childhood Literacy Reading	M.Ed. M.S.N.		

# Academic Abbreviations

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AAS	African American Studies	HUM	Humanities
ACA	Academic Success Program	IDES	Interior Design
ACSI	Actuarial Sciences	IED	Industrial Education
ACTG	Accounting	INFS	Computer Information Systems
ADV	Advertising	ITAL	Italian
AERO	Aerospace	JAPN	Japanese
ABAS	Agribusiness and Agriscience	JOUR	Journalism
ANTH	Anthropology	LATN	Latin
ART	Art	LIBS	Library Science
A S	Aging Studies	MATH	Mathematics
ASTR	Astronomy	M C	Mass Communication
ATHC	Athletic Coaching	MGMT	Management
ATHT	Athletic Training	MKT	Marketing
B AD	Business Administration	M S	Military Science
BIOL	Biology	MUAP	Applied Music
BLAW	Business Law	MUED	Music Education
BMOM	Business Education, Marketing Education, and Office Management	MUEN	Music Ensembles
CDFS	Child Development and Family Studies	MUHL	Music History and Literature
CDIS	Communication Disorders	MUPD	Music Pedagogy
CHEM	Chemistry	MUS	Music
CIM	Concrete Industry Management	MUTH	Music Theory
CJA	Criminal Justice Administration	N FS	Nutrition and Food Science
CM	Construction Management	NURS	Nursing
COED	Cooperative Education	ORCO	Organizational Communication
COMM	Communication (Speech)	P R	Public Relations
CSCI	Computer Science	P S	Political Science
DANC	Dance	PHED	Physical Education
DSPM	Developmental Studies Math	PHIL	Philosophy
DSPR	Developmental Studies Reading	PHOT	Photography
DSPS	Developmental Studies Learning Strategies	PHYS	Physics
DSPW	Developmental Studies English	PLEG	Paralegal Studies
DYST	Dyslexic Studies	PORT	Portuguese
ECON	Economics	PRSE	Professional Seminar
ELED	Elementary Education	PSCI	Physical Science
EMC	Electronic Media Communication	PSY	Psychology
ENGL	English	Q M	Quantitative Methods
EST	Environmental Science and Technology	READ	Reading
ET	Engineering Technology	REC	Recreation
ETIS	Engineering Technology and Industrial Studies	RIM	Recording Industry
EXSC	Exercise Science	R S	Religious Studies
FCSE	Family and Consumer Sciences Education	RUSS	Russian
FIN	Finance	SAFE	Safety
F L	Foreign Languages	SPED	Special Education
FOED	Foundations of Education	SOC	Sociology
FREN	French	SPAN	Spanish
GEOG	Geography	SPSE	School Personnel Service Education
GEOL	Geology	STAT	Statistics
GERM	German	S W	Social Work
GRAF	Media Design/Graphics	THEA	Theatre
G S	Global Studies	TRNS	Transportation
H SC	Human Sciences	TXMD	Textiles, Merchandising, and Design
HIST	History	U H	University Honors
HLTH	Health	UNIV	University 1010
HPER	Health, Physical Education, Recreation, and Safety/ Human Performance	VTE	Vocational-Technical Education
		WMST	Women's Studies
		YOED	Youth Education

# Requirements for Admission

**Admissions Office**  
Cope Administration Building 208

## Application Filing Deadlines

The deadline for Fall Semester applications is July 1.

The deadline for Spring Semester applications is December 15.

## Required High School Courses

In addition to the admission requirements described below, all students graduating from high school in 1993 or thereafter must have completed the high school subject units listed below for regular admission to MTSU. Students graduating from high school in 1989–92 must meet the 1989 14–unit requirements—those listed below but excluding visual and/or performing arts.

Subject Area	Required Units
<b>English</b>	4
<b>Visual and/or Performing Arts</b> , includes a variety of possibilities in either performance or survey courses	1
<b>Algebra I (or Math for Technology II), Algebra II, and Advanced Math or Integrated Math Sequence (Integrated Mathematics I, II, III)</b>	3
<b>Natural/Physical Sciences</b> , including at least one unit, with lab, of biology, chemistry, physics, or principles of technology	2
<b>Social Studies</b> , (world history, ancient history, modern history, European history, or world geography)	1
<b>United States History</b>	1
A single <b>Foreign Language</b>	2

An additional unit in the arts, in mathematics, and in foreign languages is recommended. Applicants who attended high schools not offering the required courses may be admitted, but they must remove the deficiencies before enrolling for 64 credit hours. Different requirements may exist for some freshman applicants (e.g. early admission and international students). Students who graduated from high school prior to Spring 1989 and students who acquired a GED credential in 1988 or earlier are exempt from removing unit deficiencies. Students receiving a degree designed for transfer from any community college are also exempt. Transfer students who graduated from high school in May 1989 or thereafter are subject to the requirements.

## High School Graduate

**Public School**—applicants for degree admission as first-time freshmen must provide an official high school transcript showing credits earned and date of graduation. The transcript of graduates of Tennessee public high schools must include a notation indicating that the student passed the required proficiency examination.

**Non-Public School**—graduates of non-public high schools (including private schools, home schools, and church-related schools) must submit an official transcript showing credits earned and date of graduation. The transcript of a home school applicant must be an official copy from an affiliated organization as defined by state law (T.C.A. 49-50-801) or be accompanied by certification of registration with the superintendent of the local education agency which the student would otherwise attend. Applicants who cannot provide a satisfactory secondary school credential may substitute acceptable scores on either the GED examination or the ACE examination.

*NOTE: The cumulative high school grade point average is calculated based upon grades nine through twelve. However, if admission credentials are received by the Admissions Office prior to the applicant graduating from high school then the cumulative grade point average is based upon six semesters (grade nine through eleven). The review for high school unit requirements is based upon grades nine through twelve.*

## Standardized Examinations

Only one valid set of ACT/SAT test scores will be used for admission purposes, and that same set is used for assessment decisions. Valid ACT/SAT scores are those earned within three years prior to the first day of the first term of enrollment. Students 21 years of age or older are not required to submit ACT/SAT scores, but those who elect to present valid scores may do so. SAT scores are acceptable in lieu of ACT scores for all applicants.

## Freshman Admission Standards

Each fall new applications will be admitted until a maximum number is achieved. All applicants will be considered by evaluating their likelihood of success at Middle Tennessee State University. Students should be adequately prepared to succeed as evidenced by high school grades, ACT or SAT scores, pattern of high school courses taken, special talents, and school recommendations.

### Deadlines

Students are encouraged to submit an application as early as possible to receive first consideration. Application deadline dates are

- February 15—First priority deadline for Fall Semester. Applications received after February 15 will be considered until July 1 (second priority deadline) or when the undergraduate enrollment capacity is reached.
- December 15 for spring semester.

Applications received after these dates will be placed on a waiting list.



## Admission Criteria

Freshman admission decisions are based on the following elements:

1. high school grade point average
2. standardized test scores, either ACT or SAT (students 21 years of age or older are exempt)
3. completion of the 14 units required for college admission (see above - applicable for graduates 1989 and after)
4. a personal statement form to be reviewed by the Admissions Review Board may be required of some students

## Freshman

Following are the admission standards for all freshman applicants. The categories described below are designed to clarify the process used to evaluate undergraduate applications. It is not necessary for the applicant to choose a category in which to apply. The categories are

**Honors Admission**—for high-ability students

**Guaranteed Admission**—for the majority of applicants

**Conditional Admission**—for applicants not meeting standard admission requirements who have special talents or circumstances which may be taken into consideration

MTSU will continue to admit a very limited number of applicants who have not completed all of the specified high school units (using the Conditional Admission category). Competition for these spaces is keen. Applicants with more than two deficiencies are rarely admitted.

**Guaranteed Admission**—Regular admission will be granted to applicants who complete the 14 units with one of the following:

- a minimum 3.0 GPA
- a minimum composite ACT of 22
- a minimum 2.7 GPA and minimum ACT of 19
- satisfy the NCAA standards for student-athletes who are qualifiers or partial qualifiers under Division I guidelines

Honors admission will be granted to applicants who complete the 14 units with one of the following:

- ACT composite score of 26 or higher and at least a 3.0 high school GPA
- ACT composite score of 22 or higher and a high school grade point average of 3.5 or higher

Participation in the Honors College is not required of applicants admitted in this category.

**Conditional Admission**—Any student not meeting guaranteed admission requirements will be considered for conditional admission. The review will include all academic credentials as well as other special interests and skills and other non-academic factors as explained on the Personal Statement Form. Students admitted in this category will be expected to

- remove high school deficiencies (if applicable) within the first 64 hours of enrollment
- maintain academic good standing as defined by University retention standards
- receive services from the University's Academic Support Center
- enroll in University 1010 the first semester of enrollment
- meet more specific requirements as required for certain populations of students.

The Admissions Review Board may also request additional documentation specific to each individual's circumstances. It is expected that only a very small number of people in this category will be admitted. In the absence of special talents or circumstances, applicants who do not meet the requirements for Guaranteed Admission will be denied. Decisions of the Admissions Review Board are final.

**Waiting List**—Students submitting applications after the stated deadlines will be placed on a waiting list. These applications will be processed for the application term on a space-available basis. Students on the waiting list will be given the option of updating their applications to a future term.

## Assessment Examinations

All entering degree-seeking students less than 21 years of age will be assessed for developmental studies placement (DSP) initially according to valid ACT/SAT scores. Permissible scores are less than three years. Students with ACT subscores that are 18 or lower in the areas of reading, English, or math are automatically placed in the program in the appropriate area. Students with mathematics or verbal SAT scores of 450 or less are placed in the appropriate areas, and students with SAT composite scores of 890 or below are placed into the reading area.

Applicants who will be 21 years of age or older at the time of admission are required to undergo assessment for each area or may elect to provide ACT/SAT scores that have been taken within three years prior to the first day of the first term of enrollment. Additionally, transfer students who have not earned college-level, algebra-based math or English credits must undergo departmental assessment in appropriate areas.

Transfer students without previous college-level English or mathematics coursework will be required to take the appropriate portion of the assessment test prior to registration. Transfer students whose high school transcript reflects a deficiency in either English or mathematics but whose transfer course work includes a grade of C- or better in a college-level English or algebra based mathematics course will be exempt from placement testing.

The assessment exam is administered on several dates during the Fall, Spring, and Summer Semesters. A \$10 fee is charged for the assessment exam. On the basis of their test scores, students are placed in basic, developmental, or college-level courses. More information about the Developmental Studies Program may be found on page 91.

**NOTE 1:** Academic assessment placement scores older than three years are not valid.

**NOTE 2:** After acceptance as a student, there are certain performance tests students will be required to take during their academic careers. It is a requirement of admission that students agree to take any test deemed necessary by the institution. In those instances in which tests are administered by an external entity, students hereby agree that the results of such tests be released to the institution. The purpose of this requirement is to comply with the legislature's expressed intent that institutions regularly evaluate and improve instruction at all levels. If students are under 21 years of age and are required by institutional policy to complete academic assessment placement tests, their scores on these tests and course placement may be reported to their high school for

research purposes. Any test scores will be treated confidentially as required by law.

## Transfer

An undergraduate applicant who previously has registered at any college or university must apply as a transfer student. In order to qualify for regular admission, the applicant must request that a transcript from each institution attended be sent directly to the Admissions Office. Applicants who have earned 8 or fewer semester hours or 12 or fewer quarter hours from a college or university must meet both transfer and freshman admission standards. Concealment of previous college or university attendance may be cause for rejection, cancellation of admission, or dismissal of the student.

Admission will be granted to applicants who have a cumulative grade point average of 2.00 or higher. (Applicants who have not been enrolled in any post-secondary institution in the 12 months preceding the term for which they are applying will be eligible for admission, but they will be admitted on academic probation if their cumulative grade point average is less than 2.00). Transfer applicants graduating from high school in 1989 or thereafter who have not earned 60 semester hours of transferable work and who have not earned an associate's degree designed for transfer are subject to the high school units requirement described on page 24.

Eligible transfer applicants who have not completed all of these courses will be admitted, but they must remove deficiencies during the first 30 credit hours of enrollment at MTSU. Courses required to remove deficiencies can be used to satisfy elective credit only. Transfer students whose transfer coursework includes a grade of C or better in a college-level English or algebra-based mathematics course will be exempt from placement testing. The algebra-based mathematics course will be used to satisfy the high school unit deficiency. The college-level English course will be used to satisfy the English high school deficiency. The completion of another degree-level mathematics/English course will be required to satisfy General Education requirements.

Transfer applicants who do not have a cumulative 2.00 grade point average may submit their credentials to the Admissions Review Board for review. The board will consider applications from applicants with less than a 2.00 cumulative grade point average. In addition to college transcript(s) these applicants are required to complete a transfer appeal form which will be provided to the student from the Admissions Office.

Transfer students admitted by the Admissions Review Board will be admitted on probation. Refer to page 53 for university retention policy. Decisions of the Admissions Review Board are final.

Transfer applicants without previous college-level English or mathematics coursework will be required to take the appropriate portion of the academic assessment placement test prior to registration. The test will assist in course placement and may result in requiring some students to enroll in developmental courses as additions to their programs.

## Acceptance of Transfer Credit

Middle Tennessee State University accepts transfer credit from institutions of higher learning based upon the following considerations:

1. the educational quality of the institution from which the student transfers;
2. the comparability of the nature, content, and level of credit earned to that offered by MTSU; and
3. the appropriateness and applicability of the credit earned to the programs offered by MTSU in light of the student's educational goals.

When posting transfer courses to the MTSU record, all transfer courses are converted to MTSU's grading scale and repeat policy. The Admissions Office will send an evaluation when the file is complete. The office **does not** evaluate credit for students who have already received a bachelor's degree.

Students who have completed coursework at institutions for which MTSU has no recent history may be asked to provide information to determine the comparability of content and level of credit presented as transfer to that credit offered by MTSU. Petition is made by submitting the Application for Acceptance of Credit Form available in the Admissions Office. Credit will be granted upon recommendation from the academic advisor and chair of the academic department in which the course is taught, approval of the academic dean of the college in which the course is taught, and approval by the associate director of admissions for transfer services.

Students who feel that they are competent in certain subject areas are encouraged to earn credit through a nationally recognized credit-by-examination program or through departmental credit-by-examination programs at MTSU.

Of the hours required for graduation, a minimum of 60 semester hours of senior college credit (credit awarded at four-year institutions) is required of all students who transfer from accredited colleges of less than four-year designation, with at least 42 of the 60 being upper-division courses. A grade of D in ENGL 1010 and 1020 is used to determine admission eligibility but does not meet degree requirements. Refer to page 232 for more details. Additional information on this stipulation is given under the requirements for graduation on page 56.

**NOTE:** All universities and community colleges in the Tennessee Board of Regents (TBR) system share a common set of minimum requirements for baccalaureate degrees or associate degrees designed for transfer. Please see page 58 for further information.

## Reenrollee

1. Reenrollees who have not attended another institution since leaving MTSU need only complete an application for readmission. Applicants who have not been enrolled in any postsecondary institution in the 12 months preceding the term for which they are applying will be eligible for admission, but will be admitted on probation if their cumulative grade point average is less than 2.00.
2. Reenrollees who have attended another institution since leaving MTSU need to submit an application for read-

mission and a transcript from **all** institutions attended since leaving MTSU. Applicants in this category need a grade point average of 2.00 or higher on all courses attempted at all colleges. Registration cannot occur until all transcripts are received so that eligibility for readmission can be determined.

3. Reenrollees who wish to attend MTSU after being suspended should follow items 1 and 2 above as well as the following:
  - a. Students who receive their first suspension at the end of the Fall Semester may not register at MTSU until the following summer.
  - b. Students receiving their first suspension at the end of the spring semester will not be eligible to reenroll until the following spring semester.
  - c. Students receiving their first suspension at the end of the summer session will not be eligible to reenroll until the following spring semester.
  - d. Students receiving two or more suspensions from any college(s), including MTSU, will be denied readmission for one calendar year.
  - e. Students who attended another institution during their suspension from MTSU will be readmitted if they have raised their cumulative grade point average (including MTSU work) to 2.00 or greater, or they have completed a minimum of 12 semester hours at the institution(s) attended since MTSU enrollment with a grade point average of 2.00 or greater.

## Programs for Academically Talented High School Students

Upon completion of the junior year in high school, a student may enroll in regular freshman-level courses during summer term under the following conditions:

1. A student must be in the upper 25 percent of the high school class and be nominated by his/her principal and/or counselor.
2. Courses taken during summer term must be chosen by the student in consultation with the high school counselor and department chair at MTSU. These courses are intended to supplement, not overlap, the total high school program and are not expected to be used for high school graduation. These courses will have no influence upon entrance requirements for regular admission to MTSU; however, they will count as regular college credit.

### Early Admission

There are two ways one may qualify for early admission:

1. Those students who would like to begin college at the end of their junior year must qualify under the following conditions:
  - a. be at least 16 years of age;
  - b. have completed the junior year of high school with a minimum of 14 high school units;
  - c. have a 3.50 grade point average on all work taken during grades 9, 10, and 11;
  - d. have a minimum ACT composite score of 27;
  - e. be recommended for participation in the program by either the high school principal or guidance counselor.
2. Academically talented/gifted students enrolled in grades 9 through 12 in public or private schools in Tennessee may enroll in and receive regular college credit from Middle Tennessee State University under the following provisions:
  - a. The student has a grade point average of 3.20 on a 4.00 scale;
  - b. The student must present recommendation and permission from the high school principal;

- c. Placement in college courses must be a part of the student's Individualized Educational Placement (IEP) as determined by the Multidisciplinary Team.

The University makes no inference that courses completed at MTSU would apply toward high school graduation requirements. This privilege of enrollment is granted only to students enrolled in Tennessee public or private high schools as specified in Chapter 395 of the Public Acts of 1983. Students may register for no more than nine (9) semester hours per semester when enrolled in this program.

## Special Students

### Audit

Any person who is over 18 years of age and who wishes to take a course but receive no credit (audit) may do so by applying at the Admissions Office.

*NOTE: Regular registration fees will be charged for auditing courses. Specific regulations concerning the responsibilities of students who audit courses may be found on page 37.*

### 60-Year/Disabled (Audit) Student

Applicants 60 years old or older or permanently and totally disabled (T.C.A., Section 49-7-113) and domiciled in Tennessee are required to pay the nonrefundable application fee but are **not required** to pay registration fees if they audit courses. Proof of age or disability is required annually. Registration is on a space-available basis. Regular registration fees will be charged for credit courses.

### Adult Special Student

This category is designed to serve the interests of an adult learner (age 21 or older) who does not wish to pursue a degree at the present, but who wishes to receive academic credit. To be admitted, an individual must hold a high school diploma or the equivalent. The applicant who first is denied regular admission to MTSU will also be denied admission to this category for the same semester. Students in this category are not allowed to register for

1. a college-level mathematics or English course unless the appropriate portion of an academic assessment placement test is taken;
2. any college-level course which has a remedial or developmental course prerequisite;
3. any college-level course which has prerequisite courses defined by MTSU academic departments; the current catalog indicates most departmental course prerequisites.

Adult special students may complete a maximum of 16 semester hours credit at MTSU. After receiving 16 hours, the applicant, to continue enrolling at MTSU, must apply for degree-seeking classification and meet transfer admission requirements.

*NOTE: Federal financial aid is not available to students in this category.*



## 65-Year-Old/Disabled Credit Student

Persons 65 years of age or older or permanently and totally disabled persons (T.C.A., Section 49-7-113) who are domiciled in Tennessee may register for classes on a space-available basis for credit, paying a minimum registration fee. The cost is one-half the semester hour rate up to a maximum of \$75.00. An application fee is also required. The applicant must be a high school graduate or the equivalent, and the applicant must submit proof of age or disability annually.

## Transient Student

An individual who is currently enrolled and in good standing at another college or university and who wishes to attend MTSU for one semester only must

1. submit the nonrefundable application fee (check or money order);
2. complete the application form;
3. submit an official college transcript from the institution last attended.

**NOTE 1:** Registration at MTSU includes prerequisite checking which may require validation of course completion. The submission of a college transcript provides proof of successful completion of prerequisite course(s).

**NOTE 2:** Federal financial aid is not available to students in this category.

## International Students

Details regarding admission of international students can be found on page 30.

## Permanent Resident Students

Permanent residents are admitted to MTSU according to the same admission requirements as U.S. citizens. Permanent residents may be asked to submit proof (green card) of status to determine residency for fee payment purposes.

## Withholding Application Information

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

## Measles Immunization

Effective July 1, 1998, the State of Tennessee requires students entering colleges, universities, and technical institutes with enrollment of greater than 200 students to provide proof of two (2) doses of measles, mumps, and rubella (MMR) vaccine on or after the first birthday, or proof of immunity to measles if date of birth is 1957 or after. Students will not be allowed to register for classes until an acceptable form is on file in the Student Health Services Office. More information can be obtained by contacting McFarland Health Services, 898-2988.

## Residency Classification for Fee-paying and Admission Purposes

The Admissions Office is charged with the determination of an undergraduate student's residency for fee-paying purposes and as the basis for some University admission requirements. The Graduate Office is charged with the determination of a graduate student's residency for fee-paying purposes. The International Programs and Services Office is charged with the determination of a non-U.S. citizen student's residency for fee-paying purposes. Classification is determined by information submitted on the admission application and subsequent fee classification questionnaire. Notification in writing is made soon after the student applies for admission. All decisions are based on regulations established by the Tennessee Board of Regents, with the intent that all Tennessee public institutions of higher education apply uniform classification rules. Should a student be denied in-state classification, the student has the right of appeal. A written appeal should be submitted to the University Appeals Committee through the Office of the Associate Vice President and Dean of Student Life. A recommendation on the appeal will be reviewed and acted upon by the vice president for student affairs, whose decision shall be final.

## Specific Instructional Programs

Certain instructional programs of the University are subject to special admission requirements which are in addition to the general admission requirements. Three such programs are Nursing, Recording Industry, and Teacher Education; the special admission requirements for these are subject to change according to availability of institutional resources. Students wishing to enter one of these programs of study should check with the appropriate department to become familiar with any special requirements or deadlines.

**NOTE 1:** Acceptance from Middle Tennessee State University does not guarantee admittance to the Nursing Program—nor does rejection from the Nursing Program nullify acceptance to the University. Applicants desiring acceptance to the Nursing Program must obtain an application from the School of Nursing, MTSU, Murfreesboro, TN 37132.

**NOTE 2:** The Recording Industry Program requires admission to candidacy to earn a degree and as a prerequisite to enrollment in most upper-division courses. Visit [www.mtsu.edu/~record/](http://www.mtsu.edu/~record/) for more information.

**NOTE 3:** Anyone wishing to apply for financial assistance to attend MTSU should contact the director of Student Financial Aid, MTSU, Murfreesboro, TN 37132. More information on financial aid is presented elsewhere in this catalog.

**NOTE 4:** Persons wishing to reside on campus should submit a housing application to reserve a room as early as possible due to a high demand for available housing. Application for admission should precede application for housing. Detailed information on housing can be found elsewhere in this catalog.

# Expenses

The question of costs while attending the University is important to every student. It is difficult, however, to accurately estimate yearly expenditures; expenses vary according to the nature of the curriculum, the place of residence (whether in-state or out-of-state), and the student's own habits and needs. It is possible to live simply and to participate in the life of the student community on a modest budget. The best help the University can offer the student in budget planning is to provide available figures for expenses.

Health service and admission to athletic events are available to any currently enrolled student. The payment of the appropriate fees will permit any combination of graduate and undergraduate courses to be taken that may be required or approved. Charges for all coursework will be assessed by course level. The University reserves the right to correct errors in student fee assessments and charges which are discovered subsequent to initial billings and fee statements.

**All fees are for the academic year 2003–2004 and are subject to change by action of the Tennessee Board of Regents. The new fee amounts will be published each year when approved by the Tennessee Board of Regents (usually around July 1). The updated rates will be available in July on the MTSU Web site at [www.mtsu.edu/~bursarnt](http://www.mtsu.edu/~bursarnt).**

## Registration Fees

### Maintenance Fees

#### In-State Students

Full-time (per semester)	
Undergraduate (12 hours and over)	\$1,566.00
Graduate (10 hours or more)	2,103.00
Part-time (per credit hour)	
Undergraduate	137.00
Graduate	222.00

#### Out-of-State Students\*

Full-time Students (per semester, 12 hours and over)	
Undergraduate	5,532.00
Graduate	6,069.00
Part-time Students (per credit hour)	
Undergraduate	481.00
Graduate	566.00

#### Debt Service Fee

Full-time (per semester)	83.00
Part-time (per credit hour)	7.00

#### General Access Fee

Required of all freshman and sophomore students	
Full-time	301.00
Part-time	23.00 plus 23.00 per hour

Required of all students except freshman and sophomore students	
Full-time	251.00
Part-time	23.00 plus 19.00 per hour

#### Recreation Activity Fee

(Required of all students)	25.00
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\*Included in these rates are charges for out-of-state tuition as follows:

1. \$3,966.00 for full-time students
2. \$344.00 per credit hour for part-time students

**NOTE:** The rates quoted above are those in effect for the 2003-2004 academic year. A portion of the General Access Fee is allocated to the Parking and Transportation Services department; upon payment of all registration fees, students are eligible to receive a student parking permit.

## Materials Fees

### Agribusiness and Agriscience

Applies to ABAS 2400, 3400, 4400, 4460	\$150 per course
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### Biology

Applies to BIOL 1030, 1110, 1120, 2020, 2120, 2230, 3020, 3040, 3210, 4080, 4110, 4140, 4210, 4270, 4290, 4300, 4360, 4430, 4440, 4450, 4510, 4550, 5020, 5040, 5140, 5510, 5550, 6080, 6290, 6330, 6360, 6380, 6390, 6410, 6430, 6440, 6450	\$20 per course
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### Chemistry

Applies to PSCI 1030; CHEM 1010, 1020, 1110, 1120, 2030, 2230, 3010, 3020, 3530, 4230, 4330, 4340, 4350, 4360, 4630, 4880	\$20 per course
Applies to CHEM 2880, 3880	\$5 per credit hour
Applies to CHEM 4430, 4530	\$10 per course
Applies to CHEM 4780	\$5 per course

## Special Course Fees

### Jennings A. Jones College of Business

Applies to ACTG, B AD, BLAW, BMOM, ECON, FIN, INFS, MGMT, MKT, Q M (excludes ECON 2410 and 2420 and Q M 2610)	\$20 per credit hour
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### Private Instruction Music Fees

Charged to all music private instruction courses	\$150 for 1 credit hour \$300 for 2–3 credit hours
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### Concrete Management Certification Fees

Applies to CIM 3000, 3050	\$115 per course
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### Nursing Testing Fees

Applies to NURS 3110, 3130, 3150, 3170, 3230, 3250, 3270, 4130, 4150, 4210, 4230, 4250	\$20 per course
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## Fall 2003–Summer 2004 Regents Online Degree Program Fees

Regents Online Degree Program (RODP) courses are charged per hour and viewed separately from MTSU courses so as not to mix with the full-time cap applicable to MTSU courses. RODP fees are computed in addition to any MTSU course fees and do not apply to the full-time maximum for MTSU registration fees.

<b>In-State Resident</b> - Maintenance Fees	
Undergraduate	\$137.00 per hour
Graduate	\$222.00 per hour
<b>Out-of-State Resident</b>	
Undergraduate	\$481.00 per hour
Graduate	\$566.00 per hour
<b>Online Course Fee</b>	
Undergraduate	\$55.00 per hour
Graduate	\$89.00 per hour

## Summer Registration Fees

**NOTE:** Fees are charged per hour for all classes. NO maximum applies for summer.

<b>In-State Students</b>	
Undergraduate	\$ 137.00 per hour
Graduate	222.00 per hour
<b>Out-of-State Residents</b>	
Undergraduate	481.00 per hour
Graduate	566.00 per hour
<b>Debt Services Fee</b>	7.00 per hour
<b>General Access Fee</b>	
Required of all freshman and sophomore students	23.00 per hour
Required of all students except freshman and sophomore students	19.00 per hour
<b>Recreation Fee</b> (Nonrefundable)	25.00
<b>SGA Student Activity Fee</b> (required of all students registering for 7 hours or more)	20.00
<b>Postal Services Fee</b>	
(Required of all students registering for 12 or more hours)	10.00
<b>Late Registration (nonrefundable)</b>	100.00

## Campus Housing Expenses

<b>Reservations</b>	
Fall and Spring Semesters, required prepayment	\$200.00
Spring Semester only, required prepayment	\$100.00
Summer Session, required prepayment	\$125.00

### 2003-2004 Room/Apartment Rates

<b>Single Students/Residence Halls</b> (shared bedroom, quad bath; shared bedroom, community bath)	
Cost per semester	\$1,193.00
Summer Session I	\$210.00
Summer Session II	\$351.00
Summer Session III	\$702.00
Session IV	\$351.00
All Summer School	\$912.00
<b>(private bedroom)</b>	
All residence halls, per semester	\$2,088.00
Summer I	369.00
Summer II	614.00
Summer III	1,228.00
Summer IV	614.00
All Summer School	1,597.00
Limited availability	

<b>Womack Lane Apartments - one bedroom (shared apartment, shared bedroom)</b>	
Cost per semester	\$1,318.00
Summer Session I*	\$234.00
Summer II*	\$389.00
Summer III*	\$778.00
Summer IV*	\$389.00
All Summer School*	\$1,012.00

<b>Womack Lane and Scarlett Commons (shared apartment, private bedroom)</b>	
<b>Womack Lane Apartments - two bedrooms</b>	
Cost per semester	\$1,472.00
Summer I*	\$258.00
Summer II*	\$435.00
Summer III*	\$870.00
Summer IV*	\$435.00
All Summer School*	\$1,128.00

<b>Scarlett Commons</b>	
Cost per semester	\$2,324.00
Summer I*	\$78.00
Summer II*	\$128.00
Summer III*	\$256.00
Summer IV*	\$128.00
All Summer School*	\$334.00

<b>Womack Lane Apartments - Families (one bedroom, unfurnished)</b>	
Cost per semester	\$2,284.00
Summer I*	\$398.00
Summer II*	\$675.00
Summer III*	\$1,350.00
Summer IV*	\$675.00
All Summer School*	\$1,748.00

<b>(one bedroom, semi-furnished)</b>	
Cost per semester	\$2,636.00
Summer I*	\$464.00
Summer II*	\$780.00
Summer III*	\$1,560.00
Summer IV*	\$780.00
All Summer School*	\$2,024.00

<b>(two bedroom, unfurnished)</b>	
Cost per semester	\$2,603.00
Summer I*	\$462.00
Summer II*	\$765.00
Summer III*	\$1,530.00
Summer IV*	\$765.00
All Summer School*	\$1,992.00

<b>(two bedroom, semi-furnished)</b>	
Cost per semester	\$2,944.00
Summer I*	\$517.00
Summer II*	\$870.00
Summer III*	\$1,740.00
Summer IV*	\$870.00
All Summer School*	\$2,257.00

**NOTE:** Room rents are subject to change by action of the Tennessee Board of Regents. Each student will pay the amount in effect at the time of registration. **Apartment summer sessions noted with an asterisk are available only to those residents who have signed a license agreement and made prepayments for the subsequent academic year beginning in August.** Residence hall summer sessions are restricted to specific locations.

## Other Applicable Charges

Admission application fee	
Undergraduate	\$ 25.00*
Graduate	25.00
International	30.00
Automobile registration—academic year:	
Faculty/administration/staff	65.00
Employees with disabilities	10.00
Executive Parking Permits	120.00
Student permits**	n/c
Automobile registration—summer only:	
Faculty/administration/staff	33.00
Student permits	23.00
Employees with disabilities	5.00
Diploma insert (after the first)	10.00
Dissertation binding (1 original and 4 copies) and microfilming (doctor's degree)	91.00
Thesis binding (master's degree) (1 original and 3 copies)	37.00
Extra copy thesis (or dissertation binding)	9.20
Graduate entrance tests:	
Miller Analogies	45.00
Graduate Record Exam-subject	130.00
ID card replacement	10.00
Music, individual instruction, 2 lessons each week	300.00
1 lesson each week	150.00
Post Office box rent each semester (required of all students registering for 12 hours or more)	10.00
Nursery school, semester	
Infants and toddlers, 2 days/week	175.00
Preschool (4 days per week )	300.00
Day Care Fees (per week)	
Full-time (M-F)	76.00
Part-time (MWF)	46.00
Part-time (TTH)	31.00

\*Proposed change July 1, 2004

\*\*A portion of the general access fee is allocated to the Parking and Transportation and Services Department; upon payment of all registration fees, students are eligible to receive a student parking permit.

No student will be allowed to preregister, register, or receive a grade report or transcript of credits until all accounts are settled. A student will not be officially enrolled until all fees are cleared through the Business Office.

## Late Registration

Students who complete registration (including the payment of fees) during the late registration period will be charged a \$100.00 late fee.

## Matriculation Fee for Incompletes

If a student receives an "I" for a course, he or she need not reregister or pay fees for the course every semester until the course is completed. Such students should work only with the course instructor to complete grade requirements.

## Returned Checks

Acknowledged bank errors excepted, a \$20.00 service charge will be assessed for each bad check, whether given in payment of fees, for purchase of books, cashed by the University for the personal convenience of the student, or for any

other reason. The University will decline to accept checks from any student who has checks returned by the bank more than once. A \$100.00 late registration fee may be assessed for any bad check given in payment of registration fees.

## Automobiles

All privately owned or operated vehicles for use on the campus must be registered annually with Parking and Transportation Services and must display an official registration permit. (See above for charges.) For more information or clarification, please refer to **Traffic and Parking Regulations**, available in the Parking and Transportation Services Office.

## Auditing Charges

An auditor is one who enrolls and participates in a course without expectation of receiving academic credit. The same registration procedure is followed and the same fees charged as for courses taken for credit. An audited course is not applicable to any degree or certification program.

Regular class attendance is expected. Other course requirements, which may be obtained in writing from the instructor, will vary depending upon the nature of the course. Students interested in auditing a course should discuss course requirements prior to enrolling. Failure to meet course requirements may result in removal from the course at the request of the instructor. A successful audit will be recorded on the transcript with the designation NC.

A change from audit to credit or credit to audit must be processed by the last day to add a class.

Persons 60 years of age or older or disabled persons suffering from a permanent total disability which totally incapacitates such persons from working at an occupation which results in an income (T.C.A., Section 49-7-113) who are domiciled in Tennessee may audit courses at any state-supported college or university without paying tuition charges. Registration under this program is on a space-available basis; therefore, students cannot priority register. Class selection should be processed on the first day of classes for the term or session. Proof of age or disability must be provided.

## 65-Year-Old/Disabled Credit Student

Persons 65 years of age or older or disabled persons suffering from a permanent total disability which totally incapacitates such persons from working at an occupation which results in an income (T.C.A., Section 49-7-113) who are domiciled in Tennessee may register for classes for credit by paying a service fee not to exceed \$75 per semester. Registration under this program is on a space-available basis; therefore students cannot priority register. Class selection should be processed on the first day of classes for the term or session. No late fee is charged. An application fee is required. In addition, the applicant must be eligible for admission and submit proof of age or disability.

## Additional Charges

The University reserves the right to increase the charges listed herein or to add new ones whenever such increases or additions are found to be necessary.

## Board

All freshman men and women living in the residence halls during Fall and Spring Semesters will be required to participate in a freshman meal plan. All other students may secure meals in the University cafeterias or grill either through optional meal plans available from the food service or a meal-to-meal cash basis.

## Deferred Payment Plan

Although all charges are due and payable in full at the beginning of each term, students in **good financial standing at MTSU** may defer payment of up to 50 percent of their registration, housing, and freshmen meal plan fees for the Fall and Spring Semesters. To be eligible for the Deferred Payment Plan, each participant must make a minimum down payment of 50 percent of the registration fees, residence hall rent, and freshmen meal plan costs. **The balance due must be \$400 or more after all discounts, waivers, financial aid, and other credits are applied.**

A student who fails to make timely payments in a previous term may be denied the right to participate in the Deferred Payment Plan in future enrollment periods. Any student who makes payment with a check which is subsequently returned will be denied participation in the Deferred Payment Plan in all future terms.

The amount deferred will be payable in two monthly installments. For the Fall Term, installment payments are due by **October 1** and **November 1**. Payments for the spring term are due **March 1** and **April 1**. The University is not obligated to send reminder notices before the payment is due. Participants in this plan must apply all discounts, waivers, credits, and financial aid, including student loans, toward payment of registration fees before a deferment will be considered. Financial aid and other credits received after the initial payment will be applied to the remaining balance, and future amounts due will be recomputed. No refunds can be made until all fees are paid in full.

Students must select either the Deferred Payment Plan or the Housing Deferment Plan.

**Students will not be withdrawn for failure to pay the second or third payments. However, the balance must be paid in full before the student can preregister for future terms even if preregistration is prior to the due date.**

Each participant will be charged a **\$50.00 service fee** each term to defray administrative costs. This fee is payable along with the 50 percent down payment on or before the registration fee payment deadline. An additional **late payment charge of \$25** will be assessed for each installment not paid

on or before the due date and each 30-day period past the second installment up to a maximum of \$100. Students who make payments with checks that are returned will be charged a \$20 return check service fee as well as any applicable late fees.

If a payment is not received in the Business Office by the scheduled payment due date, the University will withhold all services from the student, including grades, transcripts, and future registration until the fees have been paid in full including any assessed late fees.

All existing rules and policies pertaining to returned checks, refunds, withdrawals, dropped classes, and collection costs are applicable to the Deferred Payment Plan.

Payment of the minimum amount due on the Deferred Payment Plan finalizes registration. The class schedule will not be dropped. **It is not necessary to also confirm on WebMT or TRAM.** The Deferred Payment Plan service fee, late fee, and minimum amount are effective for 2003-2004 and are subject to change in future terms.

Additional fees for classes added after fee payment are due before the late registration fee payment deadline. Any unpaid fees after this date will be processed as a deferred payment. The \$50 Deferred Payment Plan service fee and any applicable \$25 late payment fees will be charged.

Questions regarding the Deferred Payment Plan should be directed to the Bursar's Office at (615) 898-2761.

## Deferred Payment for Recipients of Veterans Affairs or Other Governmentally Funded Educational Assistance Benefits

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

## Refund of Fees

**NOTE:** No refund of housing fees, registration, or other fees will be made to students who are dismissed or suspended.

### Fall and Spring Semesters\*

Those students who withdraw from the University within 14 calendar days after the beginning of classes for the Fall and Spring Terms will be refunded 75 percent of their maintenance fees, debt service fee, general access fee, materials fees, course fees, or music fees (if any). Those withdrawing after the 14th day but before 25 percent of the time period covered by the term has passed will be refunded 25 percent of their fees. No refunds will be made beyond the 25 percent period. Specific dates for each term are given in the class schedule book for that term. The same refund schedule applies to students who drop to an hourly load below full-time. The percentage then applies to the difference between the new fees calculated on an hourly basis and actual fees paid. All other fees are nonrefundable.

Drop dates for courses which meet for a shorter time period than normal will be prorated based upon the course drop dates for the full term.

### Summer\*

For summer sessions and other short terms, the 75 percent refund period and the 25 percent refund period will extend a length of time which is the same proportion of the term as the 75 percent and 25 percent refund periods are in the regular terms.

Students who preregister for a summer session course and find it necessary to drop or withdraw before the first day of class for that session will be refunded 100 percent for that course. Otherwise the regular refund schedule will apply.

Specific dates applying to each session are listed in the current summer schedule book.

*\*Students who register after the official registration period and withdraw from the University will have their refunds calculated as if registration had taken place on the official day of registration.*

## Refunds of Housing Expenses

### Residence Halls

Applications for residence halls and on-campus apartments must be accompanied by the required prepayment as outlined in the license agreement. Prepayment is a security of good faith that denotes the applicant's serious intent to reside in on-campus housing. Prepayment fees for 2003-2004 are \$200.00, \$100.00 of which is applied toward Fall Semester charges, and \$100.00 of which is applied toward spring semester charges. This prepayment is refundable prior to check-in according to the following schedule. All cancellations must be submitted in writing to the Housing and Residential Life Office. Prepayment amounts represent approxi-

mately 25 percent of the total semester fee and may vary from year to year. Students should contact Housing and Residential Life to verify specific changes.

### Academic Year (Fall and Spring) Applications

Date of Cancellation	Refund Amount
By May 1	\$150.00
By June 1	\$100.00
By July 1	\$ 50.00
After July 1, but prior to the first check-in day in August	\$ 00.00

### Spring Semester Only Applications

Date of Cancellation	Refund Amount
By October 15	\$ 50.00
After October 15, but prior to the first check-in day in January	\$ 00.00

### Summer Housing

Details regarding application, fees, and refunds for summer assignment to residence halls and on-campus apartments may be obtained by contacting the Housing and Residential Life Office at (615) 898-2971.

### Housing Fees

The refunds of residence hall fees after registration will be prorated on a weekly calendar basis when the student is forced to withdraw from the residence hall because of approved medical reasons confirmed in writing by a licensed physician.

Full refund will be made in the case of death. No refund will be made other than under the above conditions, except as specified in the Student Housing Agreement.

## Direct Deposit of Financial Aid Credit Balance Refunds

Students who have a credit balance due to financial aid should have the excess aid balance direct deposited into their checking or savings accounts. If financial aid has been credited to the student's account, the refund will be deposited into the student's bank account and available for use on the first day of refund disbursement if the student has met all financial aid eligibility requirements and/or completed all required paperwork.

Students must complete an authorization form at least 14 days prior to the first day of classes. Financial aid proceeds will not be transferred to the student's banking account without authorization. An authorization form can be obtained from the Business Office, Cope Administration Building, Cashier Window 9, or Room 103 or by calling (615) 898-5716. Direct Deposit Authorization Forms are available also via the Web at [www.mtsu.edu/~bursarmt/direct.html](http://www.mtsu.edu/~bursarmt/direct.html).

This authorization will remain in effect until terminated by the student.



# Financial Aid

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## Office of Financial Aid Cope Administration Building 218

The purpose of Student Financial Aid is to provide assistance to qualified students who would find it difficult or impossible to attend Middle Tennessee State University without aid. The Office of Student Financial Aid is part of the Division of Student Affairs.

The student and his/her family have the primary responsibility for financing a college education. However, through federally funded programs, students may receive assistance when it is determined that the student and family cannot meet the costs of a postsecondary education. Need is defined as the difference between the cost of attending MTSU and the calculated family contribution toward this cost. The Free Application for Federal Student Aid (FAFSA) is the document from which the family contribution is calculated.

In addition to programs based on need, MTSU has a limited number of scholarships that are based on academic performance and/or ability in a particular area.

## Deadlines for Applications

### Federal/State Deadlines

To apply for federal and state aid, the Free Application for Federal Student Aid (FAFSA) must be completed. The priority deadline to apply for federal financial aid is May 15. The priority deadline does not apply to the Federal Pell Grant or Federal Stafford Loan programs. The priority deadline for the state grant (Tennessee Student Assistance Award) is May 1. Completing the FAFSA early is strongly encouraged. Due to limited funding for campus-based programs (e.g., Federal Supplemental Education Opportunity Grant, Perkins Loan, and Federal Work Study), all eligible students may not receive these funds.

### Scholarship Deadlines

To apply for scholarships for the upcoming academic year, the following deadlines must be observed:

**Currently enrolled students:** Submit a scholarship application by December 1

**Entering freshmen:** Apply for admission, submit official ACT or SAT test scores, and submit an official sixth-semester high school transcript (through the end of the junior year) by December 1

**Transfer students:** Apply for admission by February 15

**Foundation scholarships:** Complete online application at [www.mtsu.edu/scholarships](http://www.mtsu.edu/scholarships) by February 15

**Tennessee Education Lottery Scholarship Program (TELSP):** The priority deadline requires the FAFSA results to be on file in the Financial Aid Office by May 1 (recommend the FAFSA be submitted to the Department of Education by April 1)

## How to Apply

**Step 1.** Prospective students and their parents should very carefully complete the Free Application for Federal Student Aid (FAFSA). Forms are available beginning in January for the next Fall, Spring, and Summer terms. Forms are available from the MTSU Financial Aid Office, most high school guidance counselors, or via the Web at [www.fafsa.ed.gov](http://www.fafsa.ed.gov).

The completed FAFSA can be mailed to the processing center using the envelope provided with the application or by completing the FAFSA online. The instructions must be followed very carefully. The federal processor will not process the application until it is signed. If completing the FAFSA over the Internet, parents and students should register for a PIN before completing the application. The PIN can be used as an electronic signature. It generally takes four to six weeks for the federal processor to manually process the application. It takes about two to four weeks for the application process via the Internet. The Federal Processing Center will send a Student Aid Report (SAR) to the student and MTSU (if the student enters the MTSU School Code of 003510 in the school section of the FAFSA).

**Step 2.** When the MTSU Financial Aid Office receives a complete and valid SAR, students will receive a Fall/Spring award letter stating the estimated financial aid they will be awarded. The award letter is based on full-time attendance and will indicate both grants and loans for which the student is eligible. After the award letter is printed, the estimated aid amounts may change due to changes in enrollment, EFC amounts, scholarships, and other aid. Please remember to write **accept** or **reject** beside each award, sign the form, and return it to Middle Tennessee State University, Financial Aid Office, Cope Administration Building 218, Murfreesboro, TN 37132.

**Step 3.** Students applying for one of the Federal Stafford Loan Programs must complete and submit a Loan Request Sheet (LRS) to the Financial Aid Office. Copies of the LRS are included with the award letter, available in the MTSU Financial Aid Office, or available on the Web at [www.mtsu.edu/financialaid/forms.htm](http://www.mtsu.edu/financialaid/forms.htm). To request a loan, a valid SAR must be on file. To ensure the funds will be ready, the request should be submitted a few months before the loan is needed.

## Return of Financial Aid

For the Fall and Spring semesters, a federal financial aid return will be calculated on all students who withdraw after the fourth day of class but prior to completing 60 percent of the term. For the summer term, a federal financial aid return will be calculated for all students who withdraw after the last day to drop without receiving a grade but prior to completing 60 percent of the session. The amount of the return will be prorated based on federal guidelines. Students may owe a refund to the U.S. Department of Education and/or MTSU.



Consult the current semester's schedule book for important dates with regard to withdrawing. Please review the General Financial Aid Information section or contact the Financial Aid Office with questions regarding this policy.

## Satisfactory Academic Progress Policy

Federal regulations require that all federal financial aid recipients be enrolled in a degree-seeking program and maintain satisfactory academic progress toward a degree to maintain eligibility. MTSU complies with this requirement by monitoring each aid recipient's cumulative grade point average (GPA), completion rate, and maximum time frame for completion of a degree. The following describes MTSU's method for monitoring each of these measures.

### Cumulative Grade Point Average

1. **Undergraduate students.** To be eligible for financial aid, a student's GPA must meet at least the minimum requirements found in this catalog. The cumulative GPA includes all transfer credits and hours earned at MTSU.
2. **Graduate students.** To be eligible for financial aid, a student's GPA must meet at least the minimum requirements found in the graduate catalog or be approved by the College of Graduate Studies for enrollment.

### Completion Rate

Students must earn 66 percent of their cumulative credits attempted to remain eligible for financial aid. Grades of A, B, C, D, P, or S, including any "+" or "-" options, count as credits earned. All courses for credit will be counted as hours attempted including withdrawals, incompletes, courses repeated, and courses resulting in grades of N, U, WF, WP, and F.

1. **Probation.** Students whose completion rate is greater than 50 percent but less than the required 66 percent will be placed on probation.
2. **Suspension.** Students whose completion rate is less than 50 percent of the credit hours attempted or those previously placed on probation who did not pass 75 percent of attempted credit hours will be suspended from eligibility for federal grants, loans, and federal work-study employment. Students may still be eligible for emergency short-term loans and other university funds.

### Time Limitations

1. **Undergraduates.** The maximum time limit for completion of a first degree is 150 percent of the program's published length. Most undergraduate programs require 120 hours, so the maximum attempted hours allowed is 180. This time limitation does not include remedial/developmental courses for which the maximum federal limit is 30 hours. The 180 hours include all transfer hours and all attempted hours. Students who change majors during the junior or senior year will be allowed 24 additional attempted hours to obtain a degree. The Records Office must have the change of major recorded prior to the student's achieving the 180-hour limit.
2. **Graduates.** The maximum time limit for graduate students will be 150 percent of the standards established by the College of Graduate Studies and published in the graduate catalog.

### Review of Progress Standards

1. **GPA.** The Records Office reviews the GPA at the end of each semester. Students may appeal academic suspension to the undergraduate or graduate academic appeals committee. The decision of the committee is final.

2. **Completion rate.** The completion rate is reviewed annually at the end of the Spring semester by the Financial Aid Office.
3. **Time limitation.** The maximum time limit is reviewed at the end of each semester by the Financial Aid Office.

### Notification/Appeals

1. **Over 150 hours.** The Financial Aid Office will send a letter of notification regarding the 180-hour limitation on federal financial aid to students who have attempted over 150 credit hours.
2. **Probation.** The Financial Aid Office will send a letter to students placed on financial aid probation notifying them of their financial aid status and the expected requirements. Each student will be allowed at least one probationary period during the course of enrollment.
3. **Suspension.** Students suspended from financial aid will receive a letter from the Financial Aid Office along with a Satisfactory Progress Appeal form. Students are allowed to appeal their suspensions if they can document extenuating circumstances beyond their control which have since been resolved. Examples include death of immediate family member and extended medical illness and/or disability. Provisions may also be made for students who have been approved to participate in the Academic Fresh Start program or who have military credits that cannot be counted toward a degree. Any other circumstances not listed above must be well documented and have the approval of a financial aid administrator and the director of Financial Aid.
  - a. **Financial Aid Suspension Appeals.** Student appeals are reviewed by an internal committee composed of financial aid staff. Each student will be notified of the appeal decision and—if denied—what action must be taken to regain financial aid eligibility.
  - b. **Loan and Scholarship Committee.** Students who are suspended a second time or who have been denied by the internal financial aid committee may appeal to the Loan and Scholarship Committee or its designee. The Loan and Scholarship Committee comprises faculty members, students, and administrators. Since faculty and students do not report until the start of school, students appealing to this committee may be personally responsible for paying registration expenses or signing a deferment to confirm they will attend in order to hold their selected classes.

### Reinstatement of Financial Aid if Appeal Denied

Students can attend MTSU and make up deficiencies in credit hours at their personal expense. If a student chooses to do this, a written appeal to the Financial Aid Office must be made when the deficiencies have been completed. This option is not available to students who have reached the maximum time limit.

### No Credit Hours Earned

A student who earns no credit hours for one semester will be placed on probation. A student who earns no credit hours for two consecutive semesters enrolled will be suspended from federal financial aid. However, the student may appeal the suspension. Please see the suspension guidelines above.

### Teacher Licensure

Students who have completed an undergraduate degree and are enrolled for the sole purpose of attaining teacher licensure are eligible for loans at the undergraduate level. To receive aid, students must be accepted into the teacher education program. A student may be eligible for aid one semester prior to being accepted provided he/she has taken or will be taking FOED 1110 and FOED 2110, has a minimum

GPA of 2.5, and provides the Financial Aid Office with copies of his/her program of study. Exceptions may be made by the Financial Aid director or his/her designee.

### **Tennessee Education Lottery Scholarship Program (TELSP)**

Refer to the current schedule book for the most recent policy. Rules and regulations are subject to change without notice. Before dropping or withdrawing from classes, contact the Financial Aid Office.

### **General Financial Aid Information**

1. For the Fall and Spring Semesters, students who withdraw within the first four days of classes may have all of their financial aid cancelled. Students who drop course(s) within the snapshot date (generally the first 14 days of classes) may have their aid adjusted according to the number of hours enrolled as of that date (see the current semester's schedule book for exact dates). Also, see the Financial Aid Return Policy which details information regarding withdrawing before 60 percent of the semester.
2. For each session of the summer term, students who withdraw before the last day to drop without receiving a grade may have all of their aid cancelled. Students who drop course(s) before the last day to drop without a grade may have their financial aid adjusted (see the current summer semester's schedule book for exact dates). Also, see the Financial Aid Return Policy earlier in this section which details information regarding withdrawing before 60 percent of the term.
3. For Stafford and Perkins loans, class attendance will be verified for disbursements that occur during the semester or each summer session. If a student is reported as not attending classes on at least a half-time (6 undergraduate hours) basis, funds may not be disbursed or awarded aid may be adjusted.
4. For Pell grants, class attendance will be verified during the semester or each summer session. If a student is reported as not attending classes for which Pell has been awarded, aid may be cancelled or adjusted.
5. Attendance must be verified for students who are enrolled in correspondence courses, online courses, telecourses, the Regents degree, or courses via the Internet. Because attendance is not required for these courses, instructors document attendance according to completed homework assignments. If students wish to withdraw from or drop these courses, it is recommended they contact their instructor(s) and/or complete their homework assignments in a timely manner so their attendance can be documented. Students' financial aid may be adjusted or cancelled if instructors are unable to verify attendance.
6. Financial aid can pay for up to 30 attempted credit hours of remedial and developmental classes.
7. Students receiving financial aid must declare a major by the time they have earned 60 hours.
8. Any scholarships and grants received in excess of tuition, fees, and books are considered taxable income. See your tax preparer for tax filing information.
9. Students enrolled in only Regents Online Degree courses may have their budgets adjusted.

10. All financial aid is subject to the Financial Aid Satisfactory Academic Progress Policy.
11. Students enrolled for an additional bachelor's degree may qualify for a Stafford Loan provided they have not reached their aggregate limit. The student must provide the Financial Aid Office with a signed copy of the upper-division form detailing the courses required for the additional degree before a loan can be processed.

## **Aid Available**

Following is a summary of financial aid administered through MTSU. Unless otherwise indicated, application is made to the Student Financial Aid Office by completing and mailing the Free Application for Federal Student Aid.

### **Sources of Aid and Eligibility**

#### **Federal Programs**

##### **Federal Pell Grant**

Undergraduate students (based on need and attempted hours); amount of grant varies.

##### **Federal Supplemental Educational Opportunity Grant (SEOG)**

Undergraduate students enrolled at least half-time (based on need); amount of assistance varies.

##### **Federal Work-Study Program**

Undergraduate or graduate students enrolled at least half-time (based on need); maximum of 20 hours per week.

##### **Federal Perkins Loan**

Graduate and undergraduate students enrolled at least half-time (based on need); lifetime maximum of \$20,000 for undergraduate study and \$40,000 for graduate study.

##### **Subsidized Federal Stafford Loan Program**

Undergraduate or graduate students enrolled at least half-time and in good standing or accepted for enrollment at MTSU (based on need); maximum for two semesters is \$2,625 for freshmen; \$3,500 for sophomores; \$5,500 for juniors and seniors; and \$8,500 for graduate students, not to exceed a lifetime limit of \$23,000 for undergraduate students and \$65,500 for graduate students (including the undergraduate loans). Applications are available in the Financial Aid Office.

##### **Unsubsidized Federal Stafford Loan Program**

Independent undergraduate or graduate students attending at least half-time and in good standing or accepted for enrollment at MTSU (based on need and cost of attendance); maximum for two semesters is \$4,000 for freshmen or sophomores; \$5,000 for juniors or seniors; and \$10,000 for graduate students, not to exceed a lifetime limit of \$23,000 for undergraduate students and \$73,000 for graduate students (including the undergraduate loans). Applications are available in the Financial Aid Office.

##### **Federal Parent Loan for Undergraduate Students (PLUS)**

Parents of dependent students; student must be attending at least half-time. The annual loan limit is the student's defined cost of attendance minus any financial aid received. No lifetime limits. Applications are available in the Financial Aid Office.

##### **ROTC Scholarship**

Based on performance on written and physical examinations; \$150 per month plus tuition and books; contact MTSU Military Science Department.

## State Programs

Review the Tennessee Student Assistance Corporation (TSAC) Web site at [www.state.tn.us/tsac](http://www.state.tn.us/tsac) for information on application procedures, deadline dates, and eligibility criteria for the following programs:

Tennessee Student Assistance Award Program  
 Dependent Children Scholarship Program  
 Ned McWherter Scholars Program  
 Minority Teaching Fellows Program  
 Robert C. Byrd Honors Scholarship Program  
 Tennessee Teaching Scholars Program  
 Christa McAuliffe Scholarship Program  
 Tennessee State Lottery Scholarship Program

## Institutional Programs

Review the MTSU Web site at [www.mtsu.edu/scholarships](http://www.mtsu.edu/scholarships) for eligibility criteria for the following programs:

### Incoming Freshman Academic Scholarships

The National Merit Finalist  
 The Chancellor Scholarship  
 The Presidential Scholarship  
 The James M. Buchanan Scholarship  
 The Academic Service Scholarship  
 Valedictorians and Salutatorians  
 The Provost Scholarship  
 The Raider Scholarship

### Currently Enrolled Students

MTSU Enrichment Scholarship  
 MTSU/TSU and MLK Scholarship

### Transfer Academic Scholarships

Phi Theta Kappa Scholarships  
 TBR Community College Academic Service Scholarship  
 Non-TBR Academic Service Scholarship  
 Scholastic Rewards

### Minority Academic Scholarships

National Achievement Finalist  
 The Otis L. Floyd Academic Excellence Scholarship  
 The Scholastic Achievement Scholarship  
 Scholastic Rewards  
 Inroads

## MTSU Foundation Scholarships

For information on these scholarships, consult the appropriate academic department, school, or college.

## Other Scholarships

### Athletic Scholarships

Based on skill; amount varies; contact the Athletic Department, MTSU.

### Music Scholarships

Based on skill; audition required; amount of assistance varies; contact the director, McLean School of Music, MTSU.

### Graduate Assistantships

Based on major field of study; monthly stipend plus fees; contact chair of major department.

### Doctoral Fellowships

Based on major field of study; amount of assistance varies; contact chair of major department.

## Other Institutional Aid

### Clifford N. and Pauline W. Stark Educational Loan

Based on need and GPA; amount of assistance varies; cosigner required; contact the Financial Aid Office.

### Saunders Loan Fund

Education majors; based on need and GPA; amount varies; contact the Financial Aid Office.

### SGA Emergency Loan Program

Based on emergency need; \$100, which must be repaid in 30-60 days; amounts vary; contact Financial Aid Office.

### Foundation Short-Term Loan Program

Based on emergency need; must be repaid in 30-60 days; amounts vary; contact Financial Aid Office.

## Other Sources of Aid

### Vocational Rehabilitation

Based on physical or emotional disabilities; amount of assistance varies; contact State Vocational Rehabilitation Office in your area.

### Veterans Benefits

Veterans, widows of veterans, and children of disabled or deceased veterans; amount of assistance varies; contact Veterans Administration Office in your area.

### Private Scholarships

Based on an organization's or individual's requirements; amount of assistance varies; contact parents' employers, local civic organizations, community groups, churches, businesses, etc.





# Housing and Residential Life

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## Housing and Residential Life Keathley University Center 300

Living on campus places students in the center of the University community so they can take advantage of opportunities for involvement in both academic and co-curricular activities. Most students find that MTSU residence halls or apartments are the right choice for making the most of their college careers. By living on campus, they become part of a vital living-learning community and make friendships that will last a lifetime. Research conducted nationally indicates that living on campus is one of the strongest influences on successful completion of an undergraduate degree.

More than 3,400 students in 22 residence halls and apartments make their homes on the MTSU campus. While every living area is unique, each offers a community that supports academic excellence at the University. Professional staff and student leaders live and work in the halls, coordinating services and programs that help students achieve success both in and out of the classroom. Referrals to academic support services on the campus, access to computing facilities, opportunities for student leadership training, participation in recreational activities, and availability of a listening ear are just a few of the services available to students living in the residence halls and apartments.

Living options include traditional halls with shared baths, exterior-entry buildings with suite-style baths, and two- and four-person and family apartments. Communities range in size from fewer than 100 residents in Rutledge Hall to up to 400 residents in Corlew and Cummings. Five computer labs in on-campus halls and apartments provide residents with convenient access to personal computing and photocopiers. Personnel at twenty-four hour desks in several areas of campus assist students and guests by providing reception services, information, and assistance with security procedures. Lounges and lobbies within the halls are designed for conversation, studying, and recreation. All rooms and furnished apartments are air-conditioned and include basic cable and all utilities. Laundry facilities are available within each complex.

## General Information

When a student is accepted for admission to the University, he/she does **not** receive a room or apartment automatically. Rooms and apartments may be reserved **only** by filing an application and appropriate prepayment with the Housing and Residential Life Office.

Freshman men and women who live in residence halls are required to participate in a freshman meal plan for two full semesters, not including summer. The charge, which is payable during registration, can be found under Expenses. Additional meal plans are available to other students from the University food service (Aramark) and may be purchased during registration or at their office.

Telephone jacks are provided in each room or apartment. Residents should arrange to provide the telephone instrument of their choice. To place long-distance calls, a calling card must be obtained from a long-distance carrier who provides a **local** number to dial to access long distance. Individual bills are rendered by the carrier for all calls made against the account number during the billing period. Residents also have the option to set up an account with MTSU's STAR-1 long-distance service. Individual bills are rendered approximately once per month. One additional jack is provided in each room. One telephone device may be attached to this jack.

Each residence hall complex and each apartment complex is staffed by an area coordinator who has overall responsibility for the operation of the area. The area coordinator is assisted by a staff of resident directors and resident assistants, undergraduate and graduate students who share responsibility for managing and enhancing the daily group living experience.

Custodial and facilities staff are also assigned to each residence hall and are responsible for routine repair and cleaning in common areas of the hall, including bathrooms, corridors, and walkways. In the apartment complexes, a custodian cleans the corridors, walkways, and public areas.

## Housing and Residential Life Policies

Students who reside in University residence facilities are expected, as a condition of residence, to cooperate in the observance of the laws of Tennessee, University policies, and regulations set forth in the current *MTSU Student Handbook* and the MTSU Housing License Agreement.

Students who occupy residence hall rooms or apartments may be held responsible for any breakage or damage done to the apartment or room or to the equipment in the apartment or room and for damages or losses to the public areas of the hall or apartment building which cannot be attributed to specific individuals. No pets (other than fish in an aquarium), firearms, fireworks, extension cords (except multi-outlet with circuit breaker), drugs, or alcoholic beverages are allowed in the apartments or residence halls.

The University is **not** responsible for loss or damage to personal property. Large sums of money or articles of value should not be left unsecured. Individuals are responsible for the physical condition of their apartments or rooms, as well as for their conduct and the conduct of others who visit them.

Students are encouraged to carry appropriate insurance for their personal property.

The administration reserves the right to grant or refuse admission to the apartments or the residence halls or to reassign or to terminate the residence of any student in any apartment or residence hall or other University-owned building at any time.

### 24-Hour Desk Services

Selected buildings offer round-the-clock desk services in the lobby, in addition to usual staff services. Desk attendants can accept deliveries of packages and flowers, handle requests for maintenance, assist with building security, provide campus and building information, and make loans of sports equipment, games, and small appliances.

## Residence Halls

### West Side Halls

Residence halls located on the historic west side of campus stand along pathways lined with trees that were planted when the campus was new.

The small learning communities of Rutledge, Miss Mary, Lyon, McHenry, Monohan, Reynolds, and Schardt halls range in size from 77 to 141 students and are located adjacent to the James Union Building. The JUB houses one of the main cafeterias on campus, providing residents with a convenient location to meet friends for meals or studying. A computer lab in Lyon Hall provides west side residents with 24-hour computing facilities. Reception desks are located in Lyon and Monohan halls. Centrally located bathrooms in each hallway of each floor are shared by residents.

### Mid-Campus Halls

The centrally located residence halls of mid-campus provide easy access to the Woodmore Cyber Cafe and the campus Grill located in Keathley University Center. Smith, Sims, and Judd halls house small communities of 100 to 155 men while Beasley and Gracy halls house small communities of 100 to 155 women. All buildings share the services of the Smith Hall reception desk, lounge, and computer lab. Smith, Sims, and Beasley halls feature centrally located bathrooms on each floor which are shared by residents. Judd and Gracy are exterior entrance buildings which offer quad-style bathrooms shared by groups of four rooms.

### East Campus

Residence halls on the east side of campus are close to the Student Recreation Center and the Walker Library. Wood Hall, for women, and Felder Hall, for men, share a connecting lobby which provides reception services, a computer lab, and meeting/television space for residents for all of the east campus. Wood and Felder halls house the Honors Living and Learning Center. Clement and Gore halls are reserved for late applicants and may be home to our overflow students. Nicks Hall for men, Deere Hall for women, and Clement and Gore halls for overflow applicants are small communi-

ties of exterior entrance buildings which feature quad-style bathrooms shared by groups of four rooms. Study rooms in each building offer a quiet space for reading, study, or homework.

### North Campus

At seven stories high, Corlew and Cummings halls (on the north side of campus) are the tallest buildings at MTSU. Corlew and Cummings are located between McFarland Health Services and the Ned McWherter Learning Resources Center and adjacent to the Business and Aerospace Building. McCallie Dining Hall, located in Corlew, is one of the main cafeterias on campus. Corlew and Cummings halls house the First-Year Experience program which provides special academic and personal support to 800 freshman men and women. Reception desks are located in each hall, and a computer lab in Corlew serves residents of both halls. Centrally located bathrooms on each floor are shared by residents. Designated rooms in each building are designed to provide overflow housing for late applicants.

## Apartments

### Womack Lane Apartments

Womack Lane Apartments consist of 192 one- and two-bedroom apartments, with areas designated for both single students and families. Single students share a furnished one- or two-bedroom apartment with one other student; graduate students and upper-class students are given preference in assignment. Families may occupy either one- or two-bedroom apartments and may select an unfurnished or furnished apartment. All apartments include air conditioning units. The community building for Womack Lane includes a 24-hour information and service desk, laundry facilities, a recreation/meeting room, and computer lab.

### Scarlett Commons

MTSU's newest residential area is Scarlett Commons. Located immediately north of the Student Recreation Center, Scarlett Commons features four-bedroom, two-bathroom apartments with full kitchens and living rooms. Residents occupy a private bedroom and share their bath with one other student. Each bedroom is wired for direct access to the University computing system. The Scarlett Commons clubhouse includes a 24-hour reception and service desk, recreation/meeting room with fireplace, and laundry room. The University shuttle bus, the *Raider Xpress*, provides campus transportation from a bus stop at the front of the clubhouse.

## Special Interest Housing

### Honors Living and Learning Center

Wood and Felder residence halls on the east side of campus are the home of MTSU's Honors Living and Learning Center. Application to this residence facility is limited to students who meet Honors College eligibility requirements. Students who live in the Honors Living and Learning Center must also enroll in at least one Honors class (3 credit hours) each semester. The Honors Living and Learning Center offers unique



services such as classes taught in the Felder classroom, academic advisors who hold office hours on site, and tutoring sessions held on site. Students who live in these halls have the opportunity to interact with their professors outside of class, participate in Honors College seminars, and gain valuable leadership skills. For more information about eligibility requirements for the Honors Living and Learning Center, please contact the Housing and Residential Life Office at 898-2971 or the Honors College at 898-2152.

### **First-Year Experience Residence Hall**

Corlew and Cummings halls, seven-story high-rises located on the north side of campus, are the home of MTSU's First-Year Experience program. Services and programs offered in these residence halls are geared toward first-year students (29 college credit hours or less) and are designed to enhance students' academic success at MTSU. The First-Year Experience residence halls offer a number of unique services for first-year students at MTSU such as lower-division classes taught in the Cummings Hall classroom, an academic advisor who holds office hours in each building, tutors who live on each floor of the residence halls and provide tutoring services in the Hall Tutoring Centers, and special workshops and programs designed to assist students with their transition to MTSU. If you are interested in the First-Year Experience, please indicate First-Year Experience as the selected option on the application for housing.

### **Family Student Housing**

A portion of the Womack Lane Apartment area is assigned as Family Student Housing. Apartments include both semi-furnished and unfurnished one- and two-bedroom apartments with exterior entry, social areas, and kitchen and bathroom facilities.

Family student apartments are reserved for full-time students with spouses, and/or a dependent child or children living with the full-time student. Family Student Housing rates cover utilities, including electric heat with an individual control per unit and a window air conditioner. Semifurnished apartments include a twin bedset, dresser, sofa, chair, end table, and dinette set.

The Womack Lane Community Center building includes a 24-hour desk, meeting area, and computer lab as well as a coin-operated laundromat with commercial washers keyed to enhance security and restricted to Womack Lane residents.

# Housing Reservations

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## **How to Apply**

To apply for residence halls, on-campus apartments, and family student apartments, complete an MTSU Application for Housing and Residential Life and return it with the required fees to MTSU Housing and Residential Life, Middle Tennessee State University, P.O. Box 6, Murfreesboro, TN 37132. Applications may be completed online by accessing the Housing Web site at [www.mtsu.edu/~housing](http://www.mtsu.edu/~housing) and clicking on the "How to Apply" section. Housing assignment priorities are based on the date of application; due to the demand for on-campus housing and limited amount of space available, the University is unable to guarantee housing for all students. Completed applications, signed by the student, indicate acceptance of the terms and conditions outlined in the Housing License Agreement. Please be aware that the agreement is for a full academic year, including both Fall and Spring Semesters. Student agrees to accept accommodations assigned, including overflow housing for single students, or to cancel and accept prepayment forfeitures as outlined in the license agreement.

## **Overflow Housing**

Housing and Residential Life maintains overflow housing which is used to accommodate late applicants who apply for housing after all regular spaces are assigned. On-campus overflow housing refers to the furnishing of a room to accommodate a third person. Students will be advised of their status and given details and policy information at the time of assignment.

## **MTSU Housing License Agreement**

Please review the MTSU Housing License Agreement carefully. Submitting an MTSU Application for Housing and Residential Life commits you to the terms and conditions outlined in the agreement. Please be aware that the agreement is for a full academic year, including both Fall and Spring Semesters. Early termination of the agreement will result in substantial financial penalty.

## **Fees and Refunds**

Applications for residence halls, on-campus apartments, and family student living must be accompanied by a prepayment. Prepayment is a security of good faith that denotes the

applicant's serious intent to reside in on-campus housing. Prepayment fees are applied toward semester housing fees, with one-half toward Fall Semester charges and one-half toward Spring Semester charges. This prepayment is refundable prior to check-in according to the refund schedule located in the license agreement. All cancellations must be submitted in writing to the Housing and Residential Life Office by mail (P.O. Box 6, MTSU, Murfreesboro, TN 37132), fax (615) 898-5459.

### For More Information

Prospective students and their families are invited to MTSU to tour the campus and become acquainted with the residence halls and on-campus apartments. For additional information, contact Housing and Residential Life at (615) 898-2971 (Fax: 615-898-5459) or come to the office in Keathley University Center 300. Information is also available at [www.mtsu.edu/~housing](http://www.mtsu.edu/~housing).



# Registration Procedures

**Scheduling Center**  
James Union Building 123

**Detailed procedures for registration are given each semester in the class schedule book which may be accessed online at [www.mtsu.edu/~records/sbooks.htm](http://www.mtsu.edu/~records/sbooks.htm). Classes are selected via the Internet on the WebMT system at [www.mtsu.edu](http://www.mtsu.edu).**

To avoid delay, the following must be observed prior to registration:

1. To be accepted to the University, all students, including reenrollees and part-time students, must complete an admission application by the published deadline and submit proper credentials. The current class schedule book should be consulted for specific details. Participants in the MTSU/TSU consortium should confer with admissions personnel before registering for classes at MTSU. **The University reserves the right to stop accepting applications and to terminate registration at any point to ensure enrollment limitations according to guidelines set forth by the institution and/or Tennessee Board of Regents.**
2. MTSU conducts Priority Registration (preselection of classes) for current, reenrolling, new graduate students, or new undergraduates with a previous degree. Assigned registration times are accessible via WebMT at [www.mtsu.edu](http://www.mtsu.edu).  
A student is not officially enrolled until completion of all of the requirements of registration including the payment of fees or confirmation of attendance. The current class schedule book for each semester has information on fee payment, late registration, and dropping and adding classes, as does the Web site [www.mtsu.edu/~records](http://www.mtsu.edu/~records).
3. **It is strongly recommended that each student confer with an academic advisor to obtain an approved list of classes on a Course Selection Worksheet to be used when classes are selected via WebMT. All new undergraduate students (freshmen and transfer) are required to attend CUSTOMS (the new student orientation program) or to complete the advising process before a registration time is assigned.**
4. Former students must settle all prior accounts in the Business Office and Walker Library before readmission. All students must resolve any registration holds before being eligible for registration. WebMT may be accessed for a list of holds, if any, by each student.

The following must be observed during the registration period:

1. All students who were placed based on ACT or SAT subscores or who took an assessment test and were placed into courses in the Developmental Studies Program must enroll in and complete the designated courses in sequence. Failure to enroll in the designated courses

will result in the student's immediate withdrawal from the University. All full-time, degree-seeking students should be enrolled in the appropriate General Education English course **and** either six hours in General Education **or** three hours in General Education **and** three hours in their majors until they have satisfied the University's General Education requirements. Upper-division students should have on file and follow a plan for major and minors.

2. The current class schedule book should be consulted for fee payment procedures and payment deadlines.
3. Everyone who does not have an ID card will be required to have an identification (ID) picture made. All students must have an ID card which is automatically validated each semester upon payment of fees, and ID cards are to be used for the complete period of time a student attends MTSU. All students must register their automobiles for the current academic year.
4. All male U.S. citizens and male noncitizens who take up residency in the United States of America before their 26th birthdays must register with Selective Service prior to registering for classes at MTSU. This requirement does not apply to veterans and others exempt by federal law.
5. Effective July 1, 1998, the State of Tennessee requires students to provide proof of two (2) doses of measles, mumps, and rubella (MMR) vaccine on or after the first birthday, or proof of immunity to measles if date of birth is 1957 or after. **Registration for classes will not be allowed until an acceptable form is on file in the Student Health Services Office.**
6. The State of Tennessee mandates that each public or private postsecondary institution in the state provide information concerning hepatitis B and meningococcal meningitis to all students entering the institution for the first time. New students must acknowledge that they have read this information before they can register for classes. This information and acknowledgment statement are automatically displayed when new students register for classes on PipelineMT. If the student is under age 18, a parent or legal guardian is required to sign the form that is linked to the page and return it to Health Services before registration will be allowed.

## Determination of Residence for Fee-paying Purposes

The Admissions Office makes decisions concerning residence classifications for undergraduate students with the exception of international students. International Programs and Services handles residency questions for international students. Regulations concerning residency are printed on the back of the Application for Tennessee Residency Form that may be obtained from the Admissions Office, Cope Administration Building 210. Students who disagree with a residency decision may appeal to the Student Appeals Committee. Additional information is on page 29.



# Academic Regulations

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## Academic Advising

Each student is assigned to the academic department or school which corresponds to his or her major area of study. The head of the department or school will in turn assign a faculty advisor to the student. The faculty advisor will assist the student in determining and carrying out an academic program which will meet the student's educational aims and goals. Students required to enroll in a course or courses in Developmental Studies will also be assigned an advisor in the Academic Support Center.

Faculty advisors post a schedule of office hours, and each student should feel free to call on his or her advisor or any faculty member at any time assistance or discussion is appropriate.

Some programs require an academic advisor's permission for selection of classes. Each student is strongly encouraged to meet with his/her advisor prior to course selection to review progress toward graduation.

## Academic Disciplinary Procedures

The administration of academic discipline is a function of the head of the department concerned and the assistant dean for Judicial Affairs and Mediation Services and is conducted by means of a due process procedure. Cases of alleged cheating and unethical conduct should be reported to the departmental head and the assistant dean for Judicial Affairs and Mediation Services. Each case of alleged misconduct will be investigated by means of due process. If further action is desired, those concerned will be given an opportunity to refute the charges. After giving the student notice of the allegations and an opportunity to explain his or her actions, the instructor may assign an "F" for the exercise, examination, or course.

## Academic Fresh Start

Any person who has not been enrolled in a college or university for a period of four years and who, upon reenrolling, satisfactorily completes 40 hours of classwork, may petition to have grades on **all** prior coursework disregarded in calculating his/her cumulative grade point average. A written request and transcript should be sent to the dean of the college in which the student is pursuing a major. If the request is granted, the earlier courses will not count toward requirements for graduation or professional licensure but will appear on the student's transcript with appropriate notation.

## Academic Year

The regular academic year is divided into two terms, Fall and Spring. There is also the summer term which is divided into sessions: Session I, beginning in May, is approximately three weeks; Sessions II and IV, beginning in June and July respectively, are approximately five weeks in length; Session III,

beginning in June and running through mid-August, is approximately ten weeks; Session V, beginning in May, is approximately eight weeks; Session VIII, beginning in May, is approximately thirteen weeks; Session O for the Regents Online Degree Program, beginning in June, is approximately ten weeks. Additional sessions may be scheduled to accommodate the special needs of certain courses. An applicant may be admitted to any of these divisions.

## Accounts

No student will be issued a diploma, certificate of credit, grade report, or transcript of his/her record until all debts or obligations owed to the University have been satisfied.

## Cancellation of Scheduled Classes

No scheduled class may be discontinued without the approval of the dean of the college concerned. The right is reserved to cancel any class when the number of students enrolled is deemed insufficient. A minimum of 15 for lower-division and of 10 for upper-division and 5000-level graduate classes is required. The minimums for 6000- and 7000-level classes are eight and four, respectively. Regents Online Degree Program (RODP) classes are cancelled at the discretion of the Tennessee Board of Regents (TBR).

## Change of Major

A student who desires to change his or her major should secure a Change of Academic Program form from the department of the new major. The department of the new major will enter the new major code into the student's computer record and forward notification of the change of major to the former department. Any student receiving veterans benefits who changes his or her major must notify the Veterans Affairs clerk located in the Records Office.

## Class Attendance

A student is expected to attend each class for which he/she is registered except in cases of unavoidable circumstances. Class attendance will be monitored during the term. Students who are reported for nonattendance will be assigned a grade of F to appear on their transcripts, and nonattendance will be reported to appropriate agencies. Distribution of future financial aid will be suspended if applicable.

Exceptions are made for University-sanctioned activities. Students shall not be penalized for such absences. Students anticipating participation in University functions which will take them out of classes should discuss these absences with their instructors at the earliest convenient time.

The fact that a student may be absent from a class does not, in any way, relieve that student of the responsibility for the

work covered or assigned during the absence. It is the responsibility of faculty members to excuse or refuse to excuse absences of students who miss their classes. It is the responsibility of the student to obtain excuses for absences and to arrange with the faculty member in question to make up the work missed. Absences begin with the first date the student is enrolled in class.

If emergency circumstances prevent contacting the professor or department, the student may contact the coordinator of University Withdrawals in the Withdrawal Office, KUC 212A, who will notify the instructor(s). The phone number for that office is (615) 898-2080. Only the instructor of the class concerned can excuse an absence.

MTSU does not usually close because of inclement weather, but students will be allowed to use their own discretion when snow and icy conditions exist; they will be given the opportunity to make up the missed classes should they decide not to attend. To determine if classes are cancelled, students should listen to area radio and television stations; access the News and Public Affairs home page at [www.mtsu.edu/~proffice](http://www.mtsu.edu/~proffice) (or click on "Events and News" from the MTSU home page at [www.mtsu.edu](http://www.mtsu.edu)); or call the news line at 904-8215.

Any student who is absent from a state college or university during any school term or portion thereof in excess of thirty (30) days due to active military service shall be entitled to withdraw and receive a tuition credit in the form of credit hours for each credit hour paid by, or on behalf of, such student, or a refund for any payments made. Credit shall be given only if the reserve or National Guard student did not receive a final grade in the class or course for which tuition credit is sought.

## Classification of Students

No student may be classified as a sophomore until after earning at least 30 semester hours.

No student may be classified as a junior until after earning at least 60 hours.

No student may be classified as a senior until after earning at least 90 hours.

## Correspondence Credit

Correspondence courses taken at MTSU carry regular degree credit. Students can obtain a current listing of MTSU correspondence courses in the class schedule book or by calling the Correspondence Office at MTSU at (615) 898-5332.

Correspondence courses taken at other schools are accepted under the regulations governing acceptance of transfer credit (see page 26) and are subject to the following regulation: ENGL 1010 and 1020 and courses with a laboratory component must not be taken by correspondence except by the permission of the chair of the department and the dean of the college in which the course is offered.

## Course Numbers

Courses with the prefix ACA are academic success courses. Courses numbered 0700-0799 are basic; 0800-0899 are developmental, level I; 0900-0999 are developmental, level II; 1000-1999 are on the first year or freshman level; 2000-2999 on the second year or sophomore level; 3000-3999 on the third year or junior level; 4000-4999 on the fourth year or senior level; 5000 and above on the graduate level. Course numbers beginning with 0 are not acceptable as degree credit work.

## Double (or Second) Major

A student may elect to obtain a double or second major for graduation by meeting the following requirements:

1. Satisfy general requirements as prescribed by the University and the specific requirements set forth by each major and for the degree sought.
2. Two properly approved upper-division forms must be filed, one for each major.

**NOTE:** One upper-division form is acceptable, provided both majors are clearly identified on the form.

3. In the case of a major requiring two minors, the second major may count toward fulfillment of one minor provided it meets the requirements of the particular degree. In the case of a B.A. degree which requires only one minor, the second major may count as the required minor.
4. The degree sought must be compatible with both majors; that is, a student with a major appropriate for the B.S. degree may not choose a second major that is not offered under the B.S. degree. As an example, a student pursuing a B.S. degree with a major in Mathematics may not opt for a second major in History which is not offered under the B.S. degree.

## Dropping or Adding Courses

Tennessee Board of Regents policy prohibits students from dropping courses in the Developmental Studies Program. Under extenuating circumstances a course may be dropped with the approval of the director of Developmental Studies.

**NOTE:** Student-athletes must obtain permission from the Student-Athlete Enhancement Center and international students must obtain permission from the International Programs and Services Office before processing drop/add forms in the Scheduling Center.

The procedures and deadlines to drop and add a class are listed in the appropriate class schedule book. A student who stops attending a class but does not officially drop the class will be assigned a grade of F which will be recorded on the student's permanent record.

Students wishing to drop all courses, i.e., withdraw from the University, should consult the coordinator of University Withdrawals and see the section "Withdrawals from the University" on page 55.



## Enrollment, Certification of Status of

The following schedule of hours attempted will be used to determine the status for various certifications of attendance requested by undergraduate students: Fall, Spring, and Summer Semesters: full-time - 12 semester hours, three-quarter time - 9 hours, and one-half time - 6 hours. Students desiring official verification of enrollment should contact the Records Office or access [www.mtsu.edu/records/verform.htm](http://www.mtsu.edu/records/verform.htm). In Fall and Spring Terms, enrollment certifications are official beginning the fourteenth day of the term.

## Evening Classes

Many classes are scheduled on the campus in the evenings and on Saturdays. The Evening School Office functions as a part of the Division of Continuing Studies and Public Service to assist students who wish to take classes at such times.

## Grades—Appeal of Course Grades

### Level One

1. Student appeals concerning a course grade should be resolved by conference between the student and the faculty member who assigned the grade. The appeal must occur within forty (40) days of the graduation date for each term.
2. In the event of an impasse between the student and the faculty member, a student with an appeal of a grade shall discuss it with the department chair within ten (10) days of the conference with the involved faculty member. The department chair shall investigate the circumstances, record his/her findings, and send a copy to the student and the faculty member within ten (10) days of the notification of impasse. Although the department chair does not have the power to change the grade, he/she will make a recommendation concerning the appeal. These findings will become a part of the appeals record.

### Level Two

1. If the student is not satisfied, he/she may, within fifteen (15) days following receipt of the department chair's recommendation, refer the appeal plus all relevant data including stated reasons why he/she believes the appeal has thus far not been satisfied. The associate provost shall select a college committee to hear the appeal and transmit the appeal documents to the committee chair or to the office of the dean of the college which houses the selected appeals committee.
2. The committee hearing the appeal will receive documents and testimony regarding the circumstances, will record its findings, and shall render a decision. Notification of the committee's decision will be made to the student, faculty member, department chair, college dean, associate provost for Academic Affairs, and the director of Records.
3. The decision of the committee hearing the appeal will be final concerning the grade in question.

**NOTE:** In cases where the department chair is the person against whom the complaint is lodged, then the dean in whose college the department is located shall assume the duties of the chair in the investigation and decision making.

## Miscellaneous

1. The number of days indicated at each level above shall be considered the maximum, but every effort should be made to expedite the process.
2. The failure of the student to proceed from one level of the appeal procedure to the next level within the prescribed time limits shall be deemed to be an acceptance of the recommendations and/or decision previously rendered. All further considerations and proceedings regarding that particular appeal shall cease at that point.
3. A grade appeal may be withdrawn at any level without prejudice.
4. All appeal proceedings shall be kept as confidential as may be appropriate at each level.
5. A grade appeals committee shall have reasonable access to all official records for information necessary to the determination of a recommendation.

## Graduate Courses, Permission to Enroll in

Seniors at MTSU with 98 semester hours of credit may be allowed to take up to 12 semester hours of graduate coursework. Approval is required by the undergraduate advisor and by the dean of the College of Graduate Studies. **Graduate coursework may not be used to meet the requirements for an undergraduate degree.** Applicants for this status must complete a Half-and-Half form which is available at the Graduate Office.

**NOTE:** The Jennings A. Jones College of Business does not have a Half-and-Half program.

## Graduation

Graduation is conducted at the close of the Fall, Spring, and Summer Terms. Murphy Center is the site of this important occasion, and admission tickets for guests are required because of limited seating. Students who plan to graduate should complete a Notice of Intention to Graduate form **within the first two weeks of the first term of the senior year.** This form is available in the Records Office, Cope Administration Building 102 and online at [www.mtsu.edu/~records/intentform.pdf](http://www.mtsu.edu/~records/intentform.pdf).

All students must complete the general requirements as prescribed by the University and the specific requirements set forth for the degree sought. A minimum of 120 hours is required for most programs, with at least two semesters in which a minimum of 30 semester hours is earned in residence during the junior and senior year. The final semester must be in residence unless permission is granted by the dean of the college in which the student is pursuing a major.

A student must have a 2.00 GPA overall and a 2.00 average in the major and in 42 hours of upper-division work to graduate. Some departments require a 2.00 GPA in the minor. No more than 25 percent of the credits for nonbusiness degrees may be in courses commonly found in a school or college of business. No student will be issued a diploma, certificate of credit, grade report, or transcript of his/her record until all debts or obligations owed to the institution have been satisfied.

**Applicable Catalog**—Students are ordinarily allowed to graduate under the requirements of the MTSU catalog that was current when they entered any college or university under the Tennessee Board of Regents, provided graduation is within eight years of that entrance date. Students may elect to meet the requirements of any one catalog published while they are in attendance at MTSU provided graduation is within eight years of the catalog date.

### Graduation with Honors—Undergraduates

Recognition of honors at the graduation ceremony will be made for those students obtaining the required grade point average by the beginning of their final semester.

Cum Laude: 3.500–3.749

Magna Cum Laude: 3.750–3.899

Summa Cum Laude: 3.900–4.000

Notation of graduation with honors is entered on the diploma and the transcript and is based on the cumulative grade point average on all degree credit courses. Grade point average is truncated after the thousandth position.

### Dean's List

Dean's List designations are made each semester and are based on full-time undergraduate degree credit enrollment. Students whose GPAs for the current semester are 3.50 or greater are placed on the Dean's List. Courses graded on a pass/fail basis will count as quality hours in calculating full-time status for determination of Dean's List designation. The grade of P will not count as quality hours for determination of grade point average.

### Identification Card

Students are required to carry a permanent ID card with a magnetic strip on the back. A student ID card will be made for each new freshman and transfer student during his/her first registration process. The card is required to receive a variety of services on campus including cashing checks, admission to athletic and special events, checking out library materials, obtaining meals, and using RAIDER FUND\$. If any student loses his/her ID card, a replacement fee of \$10.00 is charged for each card. The \$10.00 fee must be paid at the Campus ID Station.

### Lower and Upper Division

Courses numbered 1000 and 2000 are on the lower-division level. Courses numbered 3000 and 4000 are on the upper-division level.

### Marking System—Grades

Following is a description of the criteria used in assigning letter grades:

A—work of distinctly superior quality and quantity accompanied by unusual evidence of achievement

B—work of good quality and quantity accompanied by evidence of achievement beyond the essentials of a course

C—work demonstrating fulfillment of the essentials of a course

D—passing work, but below the standards of graduation quality

F—failure, necessitating repetition of the course to obtain credit

N—no credit, non-punitive

P—passing (assigned only in certain courses)

I—incomplete (not used in calculating grade point average)

W—assigned in courses which are dropped during a specified period of time within a term. Students should consult the appropriate class schedule book for specific dates each term.

NC—no credit (audit)

Plus/minus grading for undergraduate courses became effective Fall 2000. Grades which may be assigned are

A

B+, B, B-

C+, C, C-

D+, D, D-

F

Plus/minus grades will be posted for students who transfer to MTSU Fall 2000 or after. Plus/minus grading for enrolled students will not be retroactive to any term prior to Fall 2000. Reenrollment students will not be eligible to have courses reevaluated if courses taken at a previous transfer institution were graded on a plus/minus system.

The P grade is given only in those courses with prior approval to use pass/fail grading. Courses may be taught on a pass/fail basis only after the approval of the Undergraduate Curriculum Committee. Catalog course descriptions include information indicating which courses are approved for pass/fail grading.

No more than fifteen semester hours in pass/fail coursework may be attempted by any student during any one semester. No more than one-half of the degree requirements may be obtained through credit-by-examination, credit for military service-related experience, flight training, and courses in which nontraditional grading such as pass/fail is used. More information can be found under the general requirements for the baccalaureate degrees elsewhere in this catalog.

The grade I indicates that the student has not completed all course requirements because of illness or other uncontrollable circumstances, especially those which may occur toward the close of the term. Mere failure to make up work or turn in required work on time does not provide a basis for the grade of I unless the extenuating circumstances noted above are present for reasons acceptable to the instructor. When a student fails to appear for the final examination without known cause, the grade to be reported should be deter-

mined as follows: If the student has done satisfactory work to that point, the grade I may be reported on the assumption that the student is ill or will otherwise present sufficient reason for official excuse; if the student has attended irregularly and has not done satisfactory work to that point, the grade F should be reported.

The “incomplete” must be removed during the succeeding semester, excluding summer. Otherwise, the grade of F is entered. **A student should not make up the “incomplete” by registering and paying again for the same course.** The I grade carries no value until converted to a final grade.

## Quality Credits—Grade Point Average

The following quality point system is used in determining the grade point average (GPA):

For each credit hour of A:	4 quality points
For each credit hour of B+:	3.33 quality points
For each credit hour of B:	3 quality points
For each credit hour of B-:	2.67 quality points
For each credit hour of C+:	2.33 quality points
For each credit hour of C:	2 quality points
For each credit hour of C-:	1.67 quality points
For each credit hour of D+:	1.33 quality points
For each credit hour of D:	1 quality point
For each credit hour of D-:	0.67 quality points
For each credit hour of F:	0 quality points

The scholastic standing of a student is expressed in terms of quality point ratio which is calculated by dividing the total number of quality points by the total number of quality hours. Following is an example:

Course	Hours	Grade	Points
ENGL 1010	3	C (2.0)	6
BIOL 1030	4	B (3.0)	12
ART 1030	3	B (3.0)	9
SOC 1010	3	B (3.0)	9
MUS 1030	3	F (0.0)	0
	<b>16</b>		<b>36</b>

To get the quality points listed in the last column, the credit hours (column 2) are multiplied by the point value of the grade earned (column 3); then the 36 is divided by 16 for a GPA of 2.25.

No rounding up or down of the GPA is done in determining eligibility for retention, graduation, honors, dean’s list designation, or taking an overload.

The section on Repeated Courses explains the computation of the GPA for students who repeat courses. The grade of F counts as quality hours with zero quality points earned; P grades carry hours earned but no quality points or quality hours.

## Repeated Courses

Students may repeat courses for the purpose of raising their grade point averages subject to the following:

1. No course should be attempted more than twice (i.e., repeated more than once) except upon the advice of the faculty advisor. The first time a course is taken is the first attempt; it is not a repeat until taken again. If a student repeats a course more than once, the hours will be

added to the total quality hours and therefore will be included in figuring the cumulative grade point average, the major average, the minor average, and the upper-division average. For example

first attempt of ENGL 1010:  
 F = 0 quality hours, 0 hours earned;  
 first repeat of ENGL 1010:  
 F = 3 quality hours, 0 hours earned;  
 second repeat of ENGL 1010:  
 C = 6 quality hours, 3 hours earned.

An example of a successful repeat:

first attempt of ENGL 1010:  
 F = 0 quality hours, 0 hours earned;  
 first repeat of ENGL 1010:  
 C = 3 quality hours, 3 hours earned.

In other words, if a student **repeats** a course **once** and **improves** the grade, the effect on the cumulative hours taken is the same as if the course were successfully completed on the first attempt. However, if a student takes a course multiple times, each repeat increases the cumulative quality hours; taking the same three-semester-hour course five times, for example, is one attempt and four repeats and therefore is 12 quality hours;

2. The last grade earned will stand even if the last grade received is an F and the student has previously received a grade higher than an F. The previous passing grade will not calculate in hours earned. All repeated courses remain on the student’s transcript with repeat notation.
3. Veterans receiving educational assistance benefits may not repeat courses previously passed and receive veterans financial assistance for such.
4. Students may not repeat a course in which they have previously earned the grade of A or B or P without written approval from the dean of the college which houses their major.
5. Students may not repeat a course in which they have previously received the grade of I (incomplete). Students must make arrangements with the instructor who assigned the incomplete to finish the course during the succeeding semester, excluding summer. If the course cannot be completed during the appropriate term, the student should request that the instructor file an extension with the Records Office.
6. **Students may use either ENGL 2020 or ENGL 2130 or ENGL 2230 or ENGL 2330 or HUM 2610 interchangeably for purposes of repeating a course.**
7. This repeat policy took effect in Fall 1981. All courses attempted since then are subject to this policy. Courses attempted prior to Fall 1981 are subject to the previous repeat policy.

## Retention Standards—Suspension of Students

The minimum cumulative quality point average required to achieve the baccalaureate degree is 2.00 on all degree credit courses.

A student failing to meet one of the following standards during any term will be placed on academic probation for the subsequent term:

## 54 Academic Regulations

1. attain a 2.00 GPA for current term, or
2. meet one of the following retention standards:

00-29.99 quality hours	1.50
30-49.99 quality hours	1.80
50 or more quality hours	2.00

A student on academic probation who fails to meet one of the above standards during the next term in which enrolled will be suspended. (See reenrollment policy on page 26.) Students previously suspended are not eligible for probationary status.

Any student who lacks developmental studies courses and attends another Tennessee Board of Regents school while on suspension from MTSU must enroll for those developmental courses while attending the other school, if available.

International students attending MTSU on student or exchange visas may not be readmitted after their second suspension even though the normal suspension period is over. According to the terms of their eligibility forms (I-20 or DS-2019), international students are expected to do satisfactory academic work and maintain a full course of study at MTSU. Failure to do this invalidates their student status, and Immigration Service will be notified. International students who are suspended may appeal to the Academic Appeals Committee for reinstatement if they feel that their poor academic performance was due to circumstances beyond their control.

**Appeal of Academic Suspension**—Academic appeals for undergraduate students will be reviewed by an academic appeals committee and consideration will be given for readmission if the student presents adequate evidence of ability, maturity, and motivation. Conditions for readmission that this committee might impose could be limiting the student's hours to 8 or 14 for the semester and/or requiring that the student meet with the college advisor. This **committee's decision is final and only applies to the semester for which the student appealed.** Readmission by the academic appeals committee does not imply reinstatement of financial aid, if applicable.

Academic appeal forms for undergraduates are available in the Records Office, Cope Administration Building or via the Web at [www.mtsu.edu/~records](http://www.mtsu.edu/~records). There is a filing deadline for appeals prior to the beginning of classes each semester. Students should contact personnel in the Records Office for the deadline date applicable to each semester, refer to current class schedule book, or access the Records Office home page. It is the students' responsibility to be aware of their academic standing.

Letters regarding academic suspension are mailed to students' addresses; however, sometimes there is not enough time between grading and the academic appeals deadline. Students should check their academic standing on WebMT after all grades are posted and the GPA is calculated overnight.

### Semester Hour Load of Student

Students should determine their semester course loads after careful consideration of time commitment outside the classroom. Students who work a significant number of hours per week should consider attempting fewer hours each semester. One's own time commitments, work and study habits,

and other considerations should be reviewed with the academic advisor prior to the selection of courses.

Sixteen or seventeen semester hours of credit is the "normal" Fall or Spring load for students who wish to graduate in four years. Eighteen semester hours (excluding courses for audit) is the maximum load for a student during any semester while enrolled only at MTSU or concurrently at another institution.

1. Students with a 3.50 average on all college work attempted may be permitted to take up to 21 semester hours in a semester.
2. Students with a 3.00 average may be permitted to take a maximum of 19 hours in a semester provided one hour is Military Science, Physical Education activity, or CSCI 1000.
3. Graduating seniors may be permitted to take an overload with the limits above during the last semester in residence to graduate.

Following are the maximum number of semester hours in which an undergraduate student may enroll during sessions within a Summer term:

Session I - 4 hours	Session V - 12-14 hours
Session II - 8 hours	Session VI - 8 hours
Session III - 14 hours	Session VII - 8 hours
Session IV - 8 hours	Session VIII - 14 hours
All Sessions - combined total of 18 hours	

Students who wish to enroll for credit hours in excess of these limitations must obtain permission at least two weeks prior to registering for classes from the academic advisor and the dean of the college in which that student is pursuing a major. Students who have not declared a major must obtain permission of the advisor in the Academic Support Center and approval of the director of the Academic Support Center. Student athletes must obtain permission of the advisor in the Athletic Enhancement Center prior to obtaining approval of the academic advisor and dean of the college in which student is pursuing a major.

### Schedule

The schedule of courses provided each semester is for the convenience and guidance of students and faculty. The University reserves the right to change courses and schedules when the interest of all concerned may best be served.

### Transcript of Credits

Official or unofficial copies of a student's record are furnished free of charge upon written request by the student. No student will be issued a diploma, certificate of credit, grade report, or transcript of record until all debts or obligations owed to the institution have been satisfied.

### Unit of Credit

The semester hour is the unit of credit in courses and represents satisfactory completion of the assigned class period. Laboratory, shop, and studio classes usually earn one credit for each two hours of attendance or equivalent for a semester unless otherwise indicated.



## Withdrawals from the University

Students finding it necessary to withdraw (completely separate) from the University after having selected classes for a future term should access WebMT, [www.mtsu.edu](http://www.mtsu.edu), to drop all classes. A student may also initiate the official withdrawal process at the University Withdrawal Office, Keathley University Center 212A. Consult the class schedule book for each term to determine whether withdrawal should be accomplished by WebMT or through the University Withdrawal Office. Once classes have begun for the Summer term, withdrawal for that Summer term cannot be accomplished via WebMT.

The Records Office will be notified of the withdrawal and will enter the withdrawal and its effective date in the computer system. Faculty can access class rolls for up-to-date information via Web for Faculty.

The grade for a student who officially withdraws from the University will be determined by the student's academic performance prior to withdrawal. Withdrawal early in a term may result in no grades being assigned to the student. (The current schedule of classes carries dates governing withdrawal and appropriate grades.)

A student may not officially withdraw from the University after a date in the semester or term which is one week or less prior to the beginning of final examinations, except for rea-

sons of mitigation or extenuation as shall be determined by the University Withdrawal Office.

Any student who leaves the University without officially withdrawing will receive a grade of F for all work attempted.

A student under certain conditions may receive an administrative withdrawal from a single course or courses. Similar procedures are provided for a total severance from the University if conditions warrant. The following policy will determine the eligibility for an administrative withdrawal: The entry of W indicates that the student has been withdrawn from a course without reflection of grades. The entry of W results from a situation involving extreme extenuating circumstances as identified and originated with the University physician or counselors at Guidance Services and/or the associate dean of students. The entry of W will be accomplished only with the full knowledge and written concurrence of the faculty member concerned.

Any student who is absent from a state college or university during any school term or portion thereof in excess of thirty (30) days due to active military service shall be entitled to withdraw and receive a tuition credit in the form of credit hours for each credit hour paid by, or on behalf of, such student, or a refund for any payments made. Credit shall be given only if the reserve or National Guard student did not receive a final grade in the class or course for which tuition credit is sought.



# Undergraduate Degree Requirements

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Throughout the undergraduate catalog, the phrase “hours earned at MTSU” refers to courses taken at the Murfreesboro campus as well as all forms of distance learning courses including Regents Online Degree course credit earned through instruction offered by MTSU.

## Baccalaureate Degrees, General Requirements for

To graduate from MTSU with a bachelor’s degree, a student must meet the following requirements.

1. Students must complete a minimum of 120 semester hours with a 2.00 grade point average. (Some programs may require more than 120 hours.)
2. A minimum of 25 percent of credit for each degree awarded by MTSU must be earned through instruction offered by the University. Typically, a minimum of 30 hours earned through MTSU is required; however, in degree programs of more than 120 semester hours a greater number of hours would be required.
3. At least 42 semester hours of junior and senior (3000-4000 level) courses must be completed with an average grade of C (2.00 GPA) or better. Courses numbered 1000 and 2000 which are substituted for 3000- or 4000-level courses may not be used in the calculation of the 42 upper-division hours. A minimum of 30 semester hours of junior and senior (3000-4000 level) courses must be completed through MTSU.
4. With approval of the dean of the college in which the student is pursuing the major, a candidate may complete six of the last 18 hours at another college or university or by CLEP. Otherwise, students must complete a minimum of 12 of the last 18 semester hours through MTSU.
5. No more than 60 semester hours completed by credit-by-examination, credit for service-related experience, and flight training may be counted for credit in a degree.
6. Students must complete at least nine semester hours at the upper-division level through MTSU in the major and at least three semester hours at the upper-division level through MTSU in each minor.
7. A minimum of 60 semester hours of senior college credit will be required of all students who transfer from colleges of less than four-year designation.
8. A minimum 2.00 GPA will be required in a major pursued as a graduation requirement and a minimum 2.00 is required in some minors.
9. All candidates must meet the General Education requirements as outlined on pages 60–63 and satisfy a technology requirement as outlined below.

**NOTE:** Information applicable to transfer students may be found on page 58.

10. No more than 25 percent of the credits for nonbusiness degrees may be in courses commonly found in a school of business. Additionally, a student can have only one business minor.
11. **During the second semester of the sophomore year, a student must complete an upper-division form and file it in the Records Office.** This form may be obtained from the office of the head of the department/school in which the student expects to major. A minimum 2.00 GPA in the major field and on all work attempted is required for unconditional admittance to the upper division and to candidacy, unless otherwise stated by a program, for the bachelor’s degree. Some programs require formal approval with additional requirements for admission to candidacy.
12. Any or all students may be required to take one or more tests designed to measure general education achievement and/or achievement in selected major areas as a prerequisite to graduation for the purpose of evaluation of academic programs. Unless otherwise provided for any individual program, no minimum score or level of achievement is required for graduation. Participation in testing may be required for all students, for students in selected programs, and for students selected on a sample basis.
13. All degree candidates must file a Notice of Intention to Graduate in the Records Office during the first semester of the senior year.
14. In compliance with SACS accreditation standards, all students will have training in and use of technology.

**NOTE: In all instances, meeting the requirements for graduation is the responsibility of the student. In addition to the general requirements above, candidates for the various degrees must meet certain specific requirements.**

## Bachelor of Arts Degree

Candidates for the Bachelor of Arts (B.A.) degree must meet the following requirements:

1. The major must be completed in one of the disciplines or concentrations listed in (4) below. It must be identified as an approved degree in the Academic Inventory on pages 18-23 and described in this catalog by the department concerned.
2. One minor is required, and it must be chosen from the list of disciplines and concentrations in (4) below or from interdisciplinary minors listed beginning on page 76. Students wishing to be licensed to teach at the secondary level must meet the requirements for a minor in Secondary Education in addition to the basic requirements of one major and one minor.
3. To meet TBR policy requirements, students who receive the B.A. degree must demonstrate proficiency in a foreign language equivalent to two years of college-level coursework. To meet the requirement, students must successfully complete 2010 and 2020 or any courses numbered above the 2000 level in a single foreign

language. Students are eligible to register for these courses after successfully completing four high school units of the same language, a score on a language placement test equivalent to proficiency of a year of college-level study of the same foreign language, or the successful completion of 1010 and 1020.

4. At least 90 of the minimum 120 hours required for graduation must be in courses offered in the following subjects, but no more than 36 hours will be accepted in any one subject:

Art*	Philosophy
Biology*	Physics*
Chemistry*	Political Science
Economics*	Pre-law concentration
Labor Relations*	Public Administration concentration
Public Finance*	Psychology*
English	Speech and Theatre
Foreign Languages	Communication Studies concentration
French concentration	Theatre concentration
German concentration	Communication Disorders concentration
Spanish concentration	Sociology
Geography*	Anthropology concentration
Geology/Earth Science*	
History	
International Relations*	
Mathematics*	
Actuarial Science*	
Music*	

\*Major not available in the B.A. program

### Bachelor of Business Administration

Requirements for the Bachelor of Business Administration (B.B.A.) degree may be found on page 163.

### Bachelor of Fine Arts

Requirements for the Bachelor of Fine Arts (B.F.A.) degree may be found on page 226.

### Bachelor of Music

Requirements for the Bachelor of Music (B.M.) degree may be found on page 255.

### Bachelor of Science

Candidates for the Bachelor of Science (B.S.) degree must meet the following requirements:

- Complete a major with a minimum of 24 semester hours.
- Many degree programs require a minor or minors of 15 credit hours or more. Specific requirements in the various departments must be met as listed in the colleges section in this catalog.
- The B.S. degree may be granted to a student who takes six semesters of college work before entering an advanced health-related or engineering professional school upon evidence of satisfactory completion of the first year's work and the unconditional admittance to the second year, if applicable, provided that
  - the minimum requirement for entrance to the professional school is 60 semester hours of college work;
  - the professional school is an integral part of a university accredited by the appropriate regional association or the professional school is accredited by the recognized national association in its field;
  - the last two semesters of pre-professional work are done at Middle Tennessee State University;
  - the candidate completes a minimum of 90 semester hours in required pre-professional courses;
  - the candidate completes, in the pre-professional work, at least 24 semester hours in upper-division courses, including at least 6 semester hours in his/her major field;

- the candidate meets all general requirements of the degree curriculum.

### Bachelor of Science in Nursing

Requirements for the Bachelor of Science in Nursing (B.S.N.) may be found on page 152.

### Bachelor of Social Work

Requirements for the Bachelor of Social Work (B.S.W.) degree may be found on page 274.

### Bachelor of University Studies Degree

The Bachelor of University Studies (B.Unv.S.) degree program is for the person who wishes to pursue a broad-based educational experience rather than a program designed to meet specific vocational or professional job opportunities. The degree is offered by the Colleges of Basic and Applied Sciences and Liberal Arts. Advisement is available through the Division of Continuing Studies and Public Services or the advisors for the college. Students may select from two specializations: basic and applied sciences and liberal arts.

Specific requirements are

- 41 semester hours fulfilling the General Education requirements;
- completion of at least nine semester hours at the upper-division level through MTSU in the college of specialization;
- a 2.00 GPA in the courses taken in the college of specialization;
- 54 semester hours selected from at least three of the six undergraduate colleges (excluding Honors) subject to the following guidelines:
  - A minimum of 27 semester hours of the 54 semester hours must be taken at the upper-division (3000-4000) level.
  - A minimum cumulative grade point average of 2.00 GPA must be attained on all degree credit courses.
  - A minimum of 21 semester hours must be completed in either Basic and Applied Sciences or in Liberal Arts. The maximum hours allowed in a specialization is 30.
  - Upper-division courses with the prefixes ELED, READ, SPED, FOED, YOED, or SPSE may not be used.
  - No fewer than 6 nor more than 12 semester hours may be taken in any one department. No more than 18 semester hours taken in departments within the Jennings A. Jones College of Business may be counted toward the B.Unv.S. degree.
  - Courses taken to satisfy the General Education requirements may not be counted to fulfill the 54 semester hours requirement in the University Studies program. Other courses from the General Education curriculum may be taken subject to limitations imposed by (a), (c), (d), and (e) above.

Additional information about the Bachelor of University Studies can be obtained from the deans of Basic and Applied Sciences, Liberal Arts, and Continuing Studies and Public Service.

### Second Bachelor's Degree

Candidates for a second bachelor's degree must meet the following requirements:

- A bachelor's degree previously earned must have been awarded by an institution of higher learning.
- All requirements for the major program in the new degree must be met, including a minimum of 9 upper-division hours taken through MTSU, and the entire major for the second bachelor's degree must be approved by the major department chair and by the dean whose college houses the program. Minor(s) required



by the major must include 3 hours of upper-division work taken through MTSU in each.

3. The General Education requirements for the first degree will satisfy General Education requirements for the second degree; however, the student must have completed 6 semester hours in American history as a requirement for the first degree or complete 6 semester hours from HIST 2010, 2020, and 2030 or the equivalent courses.
4. The technology requirement described on page 56, No. 14, will be met for the first degree or the second degree.
5. A minimum 2.00 GPA on all work attempted must be attained.
6. A minimum 2.00 GPA is required in the major pursued as a graduation requirement.
7. Students seeking a second bachelor's degree must complete an application for admission to upper division.

**NOTE:** The Admissions Office does not evaluate transcripts of students who have already received a bachelor's degree.

## Regents Online Degree Program (RODP)

Middle Tennessee State University is a participating institution in the Regents Online Degree Program. This program brings college courses to students at home, in the library, in the office, or on the road. Courses completed in the program are entirely online. These courses comprise the same content and rigor as courses on campus. Student assistance such as advising, library services, student support, bookstore, and other student services are also offered online. Technical support for accessing course materials is available 24 hours, 7 days per week.

If a student is admitted to MTSU and enrolls in an RODP course, the course is counted as offered through MTSU regardless of the delivery institution and will appear on the student's transcript as MTSU credit.

**Note:** Authorization to take RODP courses is required for all non-RODP majors. Acceptance of RODP courses as fulfilling requirements of standard degree programs is at the discretion of the individual department.

Degrees offered by MTSU through RODP include

- Bachelor of Science with a major in Professional Studies (concentrations in Information Technology or Organizational Leadership)
- Bachelor of Science degree with a major in Liberal Studies

Students must earn a minimum of 120 hours; meet MTSU upper-division, residency, senior hour, General Education, and GPA requirements; and complete the courses outlined in the specific degree program. Course requirements for these degrees can be found at [www.tn.regentsdegrees.org/campus/mtsu/](http://www.tn.regentsdegrees.org/campus/mtsu/).

Advisement is available through the Division of Continuing Studies and Public Service at (615) 898-5611.

## Graduate Degrees

Information on graduate degrees available through MTSU may be found in the section on the College of Graduate Studies in this catalog and in the Graduate Catalog.

## Transfer Students

The following guidelines determine the general education requirements of transfer students.

1. If a transfer student has earned an associate degree, the student must meet the following general education requirements:
  - a. 9 quarter or 6 semester hours of English composition
  - b. 12 quarter or 9 semester hours of humanities (to include at least 6 quarter or 3 semester hours of literature)
  - c. 9 quarter or 6 semester hours of American or Tennessee history
  - d. 12 quarter or 8 semester hours of natural/physical sciences with labs
  - e. 6 quarter or 3 semester hours of mathematics
  - f. 9 quarter or 6 semester hours of social and behavioral sciences
  - g. 6 quarter or 3 semester hours of oral communication.

**NOTE:** Students who have earned an associate degree from any college or university may meet the MTSU general degree requirements by completing the requirements listed above.

2. If a transfer student has not received an associate degree, the student will be treated like any other MTSU student and will have to meet the MTSU General Education requirements as stated in the MTSU catalog under which the student chooses to graduate.

## Tennessee Board of Regents (TBR) Common Catalog Statement Regarding General Education

Effective Fall Semester 2004, all institutions in the State University and Community College System of Tennessee (the Tennessee Board of Regents System) will share a common lower-division (freshman and sophomore) general education core curriculum of forty-one (41) semester hours for baccalaureate degrees and the Associate of Arts and the Associate of Science degrees. The courses composing the general education curriculum are contained within the following subject categories:

### Baccalaureate Degrees\*

Subject Area	Credit Hours
Communication	9 hours**
Humanities and/or Fine Arts (including at least 3 hours in literature)	9 hours
Social/Behavioral Sciences	6 hours
History	6 hours***
Natural Sciences	8 hours
Mathematics	3 hours
<b>Total</b>	<b>41 hours</b>

\*Foreign language courses are an additional requirement for the Bachelor of Arts (B.A.) degree. The B.A. degree requires proficiency in a foreign language equivalent to completion of two years of college-level work.

\*\*Six hours of English composition and three hours in English oral presentational communication are required.

\*\*\*Students who plan to transfer to Tennessee Board of Regents (TBR) universities should take six hours of American History (a maximum of three hours of Tennessee History may substitute). Students who plan to transfer to non-TBR institutions should check requirements and take the appropriate courses.



Although the courses designated by TBR institutions to fulfill the requirements of the general education subject categories vary, transfer of the courses is assured through the following means:

- Upon completion of an A.A. or A.S. degree from a TBR institution, the requirements of the lower-division general education core will be complete and accepted by a TBR university in the transfer process.
- If an A.A. or A.S. is not obtained, transfer of general education courses will be based upon fulfillment of complete subject categories. (Example: if all eight hours in the category of Natural Sciences are complete, then this block of the general education core is complete.) When a subject category is incomplete, course-by-course evaluation will be conducted. The provision of block fulfillment pertains also to students who transfer among TBR universities.
- Institutional/departmental requirements of the grade of C will be honored and enforced.
- Certain majors require specific courses to be taken in general education. Check the departmental catalog section(s) for major requirements that must be fulfilled under lower-division general education.

Courses designated to fulfill general education requirements by Middle Tennessee State University are published on pages 61-63 of this catalog. A complete listing of the courses fulfilling general education requirements for all TBR institutions is available on the Web site ([www.tbr.state.tn.us](http://www.tbr.state.tn.us)) under Transfer and Articulation Information.

## Computation of Grade Point Average for Checking Degree Requirements

**Major Average**—If a student has more courses in a major area than are actually required, only those courses specifically required for the major will be used to determine the required 2.00.

**Minor Average**—For those minors which require a 2.00 grade point average (GPA), only those courses specifically required for the minor will be used to determine the required 2.00.

**Upper-Division**—The 2.00 GPA is calculated for the “best” 42 upper-division hours.

**Teacher Education**—Guidelines for computation of grade point averages for admission to the teacher education program, for eligibility to student teaching, and for subject area endorsement may be obtained in the administrative offices of the College of Education and Behavioral Science, McWhorter Learning Resources Center. Additional information can be found under Licensure of Teachers in the College of Education and Behavioral Science section.

**Excessive Repeats**—All attempts in excess of one are figured in all averages: upper division, major, minor, cumulative, etc.

**Developmental Courses**—These courses are calculated into the cumulative GPA to determine retention; however, the developmental courses do not count toward degree requirements and the grades are not used to determine the 2.00 GPA required for a degree.

**Cumulative Average**—The cumulative average includes all quality hours from all colleges. The first attempt of a repeated course is excluded. Even if a course does not count toward graduation requirements, it will be counted in the cumulative average.

**High School Deficiency Courses**—Courses used to complete specific high school deficiencies are not used to determine the 2.00 GPA required for a degree.



# General Education

## Tennessee Board of Regents (TBR) Philosophy

The purpose of the Tennessee Board of Regents' general education core is to ensure that college students have the broad knowledge and skills to become lifelong learners in a global community that will continue to change. Because courses in general education should emphasize breadth, they should not be reduced in design to the skills, techniques, or procedures associated with a specific occupation or profession. As a fundamental element of the baccalaureate degree, essential for full completion of all majors and minors, the general education core is included in lower-division courses, but universities may add general education courses at the upper-division level as well.

General education provides critical thinking skills for analysis to continue to seek truths, to discover answers to questions, and to solve problems. Specifically, educated people practice and are literate in the various methods of communication. They recognize their place in the history, culture, and diverse heritages of Tennessee, the United States, and the world. They appreciate the web of commonality of all humans in a multicultural world and are prepared for the responsibilities of an engaged citizenship. They recognize the ethical demands of our common lives. They demonstrate the skills and knowledge of the social and behavioral sciences to analyze their contemporary world. They are familiar with the history and aesthetics of the fine arts. They understand and practice the scientific and mathematical view of the world.

Finally, Tennessee's general education core provides for its citizens the means to make a better living. It also, perhaps above all, enables its citizens to make a better life.

## Mission Statement

The General Education Program is at the core of Middle Tennessee State University's educational mission. It provides students with a broad knowledge and appreciation of the arts and sciences as well as the intellectual skills that provide a basis for effective communication, problem solving, and evaluation. The General Education experience gives students the opportunity to use various technologies to access and analyze information and to debate competing claims of evidence and systems of thought.

The program assists students in developing an objective view and understanding of the world, its institutions, and themselves by linking the cultural legacy of the past with the technological demands and global concerns of the contemporary world. Finally, it creates in students an awareness of the diverse nature of the world while encouraging them to become active lifelong learners and participants in society.

## Program Goals and Accountability

To increase accountability and maintain integrity of the General Education Program, each component course will undergo periodic evaluation to determine the degree to which the course contributes to the mission of the program. Continuous monitoring of the program will allow systematic change based upon student achievement that is relevant to the program mission. The program will foster in students the ability to think independently and critically; analyze and evaluate beliefs and attitudes, data and ideas, issues and values; gather information through various methods of inquiry; integrate and synthesize new ideas and information; communicate verbally, quantitatively, and artistically in a variety of contexts and media; weigh options and make decisions based on rational, ethical, moral, and aesthetic considerations; integrate acquired knowledge and personal experience with historical, cultural, and contemporary perspectives in a changing and diverse society; and recognize the significance of personal well-being and understand the roles, problems, and concerns of an engaged citizen.



## General Education Requirements

MTSU administers the Academic Profile to students each semester to measure performance in relation to General Education objectives. The test results are utilized by academic departments, the Committee on Admissions and Standards, the Committee on General Education, and academic administrators in an ongoing evaluation of the General Education Program.

Listed below are the requirements in General Education which all candidates for baccalaureate degrees must meet regardless of the department or college in which they are pursuing a major. If mitigating circumstances require a substitution for any specific course listed, such a substitution must have the approval of the academic dean of the college in which the student is pursuing a major.

All full-time, degree-seeking students should be enrolled in the appropriate General Education English course and either 6 hours in General Education or 3 hours in General Education and 3 hours in their major until they have satisfied the University General Education requirements.

For additional information, go to [www.mtsu.edu/~gened](http://www.mtsu.edu/~gened).

*Developmental Studies students may not be eligible to take certain courses; please refer to pages 91-93. Individual majors do recommend or require certain courses in some categories; please check appropriate catalog pages for more information. Please consult your college or faculty advisor for specific General Education planning.*

### Communication (9 semester hours)

The goal of the Communication requirement is to enhance the effective use of the English language essential to students' success in school and in the world by way of learning to read and listen critically and to write and speak thoughtfully, clearly, coherently, and persuasively.

**Learning Outcomes:** Students will demonstrate the ability to analyze and evaluate oral and/or written expression by listening and reading critically for elements that reflect an awareness of situation, audience, purpose, and diverse points of view; distill a primary purpose into a single, compelling statement and order and develop major points in a reasonable and convincing manner based on that purpose; develop appropriate rhetorical patterns (i.e., narration, example, process, comparison/contrast, classification, cause/effect, definition, argumentation) and other special functions (i.e., analysis or research), while demonstrating writing and/or speaking skills from process to product; understand that the writing and/or speaking processes include procedures such as planning, organizing, composing, revising, and editing; make written and/or oral presentations employing correct diction, syntax, usage, grammar, and mechanics; manage and coordinate basic information gathered from multiple sources for the purposes of problem solving and decision making; recognize the use of evidence, analysis, and persuasive strategies, including basic distinctions among opinions, facts, and inferences.

### Required: English composition and 3 hours in English oral presentational communication

ENGL 1010	Expository Writing	3 hours
ENGL 1020	Research and Argumentative Writing	3 hours
COMM 2200	Fundamentals of Communication	3 hours

- A. A six-semester hour requirement in freshmen composition is to be met as follows:
- Students with satisfactory scores on CEEB or CLEP will be given 3 hours of advanced standing credit for ENGL 1010. Minimum placement scores are given in the section on Advanced Standing, pages 31-32.
  - Students with an Enhanced ACT composite score of 19 or greater and a score of 32 or higher on the English section of the Enhanced ACT will be given 6 hours of advanced standing credit for ENGL 1010 and 1020.
  - Students with an Enhanced ACT Composite Score of 19 or greater and English score of 19-31 will take ENGL 1010 and 1020, 6 hours.
  - Students whose Enhanced ACT English score is 18 or below or whose Enhanced ACT composite score is 18 or below must undergo further testing. See Developmental Studies, page 91.
  - If SAT scores are used:
    - Students whose SAT verbal scores are 450 or below must undergo further testing.
    - Students whose SAT verbal scores are 460 through 710 are placed in ENGL 1010 and 1020 in sequence.
    - Students whose SAT verbal scores are 720 or greater will be given credit for ENGL 1010 and 1020.

**NOTE:** In the event that a student takes an examination for advanced placement credit for composition more than once, the most recent test score will determine the student's status in the freshman English program.

- B. Students should choose COMM 2200 to meet the remaining three-hour requirement in this area.

### Humanities and/or Fine Arts (9 semester hours)

The goal of the Humanities and/or Fine Arts requirement is to enhance the understanding of students who, as citizens and educated members of their communities, need to know and appreciate their own human cultural heritage and its development in a historical and global context. Also, through study of Humanities and/or Fine Arts, students will develop an understanding, which they otherwise would not have, of the present as informed by the past.

**Learning Outcomes:** Students will demonstrate the ability to analyze significant primary texts and works of art, ancient, pre-modern, and modern, as forms of cultural and creative expression; explain the ways in which humanistic and/or artistic expression throughout the ages expresses the culture and values of its time and place; explore global/cultural diversity; frame a comparative context through which they can critically assess the ideas, forces, and values that have created the modern world; recognize the ways in which both change and continuity have affected human history; and practice the critical and analytical methodologies of the Humanities and/or Fine Arts.

**Note:** One course must be in literature; in order to ensure breadth of knowledge, the two other courses selected must have different rubric (course) prefixes. All three courses must have different rubric (course) prefixes.



## 62 General Education

- A. The 3-hour literature requirement is to be met with one of the following:

ENGL 2020	Themes in Literature and Culture	3 hours
ENGL 2030	The Experience of Literature	3 hours
HUM 2610	Foreign Literature in Translation	3 hours

**Note:** The 2000-level English courses may not be taken simultaneously with the 1000-level composition courses.

- B. Excluding the literature choice in part A above, students should choose **two** of the following courses with different rubric (course) prefixes to meet the remaining 6-hour requirement in this area:

ANTH 2210	Introduction to World Prehistory	3 hours
ART 1030	Orientation to Art	3 hours
DANC 1000	Dance Appreciation	3 hours
ENGL 2020	Themes in Literature and Culture	3 hours
ENGL 2030	The Experience of Literature	3 hours
HIST 1010	Survey of Western Civilization I	3 hours
HIST 1020	Survey of Western Civilization II	3 hours
HIST 1110	Survey of World Civilization I	3 hours
HIST 1120	Survey of World Civilization II	3 hours
HUM 2610	Foreign Literature in Translation	3 hours
MUS 1030	Introduction to Music	3 hours
PHIL 1030	Introduction to Philosophy	3 hours
THEA 1030	Theatre Appreciation	3 hours

### Social/Behavioral Sciences (6 semester hours)

The goal of the Social/Behavioral Sciences requirement is (a) to develop in the student an understanding of self and the world by examining the content and processes used by social and behavioral sciences to discover, describe, explain, and predict human behavior and social systems; (b) to enhance knowledge of social and cultural institutions and the values of this society and other societies and cultures in the world; and (c) to understand the interdependent nature of the individual, family, and society in shaping human behavior and determining quality of life.

**Learning Outcomes:** Students will demonstrate the ability to recognize, describe, and explain social institutions, structures, and processes and the complexities of a global culture and diverse society; think critically about how individuals are influenced by political, geographic, economic, cultural, and family institutions in their own and other diverse cultures and explain how one's own belief system may differ from others; explore the relationship between the individual and society as it affects the personal behavior, social development, and quality of life of the individual, the family, and the community; examine the impact of behavioral and social scientific research on major contemporary issues and their disciplines' effects on individuals and society; using the most appropriate principles, methods, and technologies, perceptively and objectively gather, analyze, and present social and behavioral science research data, draw logical conclusions, and apply those conclusions to one's life and society; take ethical stands based on appropriate research in the social and behavioral sciences; and analyze and communicate the values and processes that are used to formulate theories regarding the social context of individual human behavior in the social and behavioral sciences.

**Note:** The two courses selected must have different rubric (course) prefixes.

AAS 2100	Intro to African-American Studies	3 hours
ANTH 2010	Cultural Anthropology	3 hours
ECON 2410	Principles of Macroeconomics	3 hours
GEOG 2000	Regional Geography	3 hours
HLTH 1530	Health and Wellness	3 hours
P S 1010	Foundations of Government	3 hours
P S 2010	American Government and Politics	3 hours
PSY 1410	General Psychology	3 hours
SOC 1010	Introductory Sociology	3 hours
WMST 2100	Introduction to Women's Studies	3 hours

### Natural Sciences (8 semester hours)

Issues in today's world require scientific information and a scientific approach to informed decision making. Therefore, the goal of the Natural Sciences requirement is to guide students toward becoming scientifically literate. This scientific understanding gained in these courses enhances students' ability to define and solve problems, reason with an open mind, think critically and creatively, suspend judgment, and make decisions that may have local or global significance.

**Learning Outcomes:** Students will demonstrate the ability to conduct an experiment, collect and analyze data, and interpret results in a laboratory setting; analyze, evaluate, and test a scientific hypothesis; use basic scientific language and processes and be able to distinguish between scientific and non-scientific explanations; identify unifying principles and repeatable patterns in nature and the values of natural diversity and apply them to problems or issues of a scientific nature; and analyze and discuss the impact of scientific discovery on human thought and behavior.

**NOTE:** Two different nonsequential courses must be selected for natural science credit having different rubric (course) prefixes; at most only the first semester of any two-semester, discipline-specific sequence may count for General Education natural science credit.

#### Lecture and Lab = 4 hours

ASTR 1030	Exploring the Universe	4 hours
BIOL 1030	Topics in Biology	4 hours
BIOL 1110	General Biology	4 hours
BIOL 2010	Human Anatomy and Physiology I	4 hours
BIOL 2020	Human Anatomy and Physiology II	4 hours
CHEM 1010	Introductory General Chemistry I	4 hours
CHEM 1030	Chemistry for Consumers	4 hours
CHEM 1110	General Chemistry I	4 hours
GEOL 1030	Introduction to Earth Science	4 hours
GEOL 1040	Physical Geology	4 hours
PHYS 2010	Non-Calculus-Based Physics I	4 hours
PHYS 2110	Calculus-Based Physics I	4 hours
PSCI 1030	Physical Science	4 hours



## Mathematics (3 semester hours)

The goal of mathematics is to expand students' understanding of mathematics beyond the entry-level requirements for college and to extend their knowledge of mathematics through relevant mathematical modeling with applications, problem solving, critical thinking skills, and the use of appropriate technologies.

**Learning Outcomes:** Students will demonstrate the ability to build on (not replicate) the competencies gained through the study of two years of high school algebra and one year of high school geometry; use mathematics to solve problems and determine if the solutions are reasonable; use mathematics to model real-world behaviors and apply mathematical concepts to the solution of real-life problems; make meaningful connections between mathematics and other disciplines; use technology for mathematical reasoning and problem solving; and apply mathematical and/or basic statistical reasoning to analyze data and graphs.

MATH 1010	Mathematics for General Studies	3 hours
MATH 1530	Applied Statistics	3 hours
MATH 1630	College Mathematics for Managerial, Life, and Social Sciences	3 hours
MATH 1710	College Algebra	3 hours
MATH 1720	Plane Trigonometry	3 hours
MATH 1730	Algebra and Trigonometry	4 hours
MATH 1810	Applied Calculus I	3 hours
MATH 1910	Calculus I	4 hours

**NOTE:** 4-semester-hour courses are calculated as 3 hours for General Education and 1 hour in the major area.

## History (6 semester hours)

The goal of the History requirement is to develop in students an understanding of the present that is informed by an awareness of past heritages, including the complex and interdependent relationships between cultures and societies.

**Learning Outcomes:** Students will demonstrate the ability to analyze historical facts and interpretations; analyze and compare political, geographic, economic, social, cultural, religious, and intellectual institutions, structures, and processes across a range of historical periods and cultures; recognize and articulate the diversity of human experience across a range of historical periods and the complexities of a global culture and society; draw on historical perspective to evaluate contemporary problems/issues; and analyze the contributions of past cultures/societies to the contemporary world.

HIST 2010	Survey of United States History I	3 hours
HIST 2020	Survey of United States History II	3 hours
HIST 2030	Tennessee History	3 hours



# How to Correct High School Deficiencies

Students admitted to MTSU with high school unit requirement deficiencies will be required to remove these deficiencies by taking the courses listed below and earning a grade of C- or better. New freshman students must remove deficiencies within the first 64 hours of enrollment and transfer students within the first 30 hours of enrollment. Courses used to satisfy high school deficiencies cannot be used toward completion of specific degree requirements.

TBR Requirements	MTSU Courses Available	Exemption Examinations Available	Departments Offering Course/Exams	Procedures/ Special Conditions
<b>English (4 units)</b>	DSPW 0700 Basic Writing DSPW 0800 Developmental Writing	No	Developmental Studies	Placement in writing and algebra courses will be determined by using an academic assessment placement test.
<b>Algebra (2 units)</b>	DSPM 0700 Basic Mathematics DSPM 0800 Elementary Algebra DSPM 0850 Intermediate Algebra	No	Developmental Studies	See above.
<b>Geometry</b>	DSPM 0990 Basic Geometry	No	Developmental Studies	
<b>Natural/ Physical Science (2 units)</b>	<b>Section A</b> GEOL 1030 Introduction to Earth Science PSCI 1030 Topics in Physical Science	No No	Geosciences Chemistry; Physics and Astronomy	Students having no high school science must complete requirements for one course in Section A and one in Section B. A student lacking one unit of high school science will complete one course in Section A.
	<b>Section B</b> BIOL 1110 General Biology	(Local Test) No	Biology	
	CHEM 1010 Introductory General Chemistry I	No	Chemistry	
	PHYS 1300 Discovering Physics	No	Physics and Astronomy	
<b>Social Studies</b>	GEOG 2000 Introduction to Regional Geography HIST 1010 or 1020 Survey Western Civilization I, II HIST 1110 or 1120 Survey World Civilization I, II	No Yes (CLEP) No	Geosciences History History	Students must complete one of the listed courses.
<b>History</b>	HIST 2010 or 2020 Survey of United States History I, II	Yes (CLEP)	History	Students deficient in American history will take one of these courses.
<b>Foreign Language (2 units) in same language</b>	Courses 1010 and 1020 in French, German, Spanish, Latin, Japanese, Italian, and Russian	Yes (Dept. placement tests in French, German, and Spanish)	Foreign Languages and Literatures	Freshmen having one year of high school work will take an appropriate 1020 course. Those with no language will take 1010 and 1020.
<b>Visual/ Performing Arts</b>	ART 1030 Orientation to Art MUS 1030 Introduction to Music THEA 1030 Theatre Appreciation	No No No	Art Music Speech and Theatre	Those lacking secondary level credit must take one of these established courses.

# Advanced Standing

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## Credit-by-Examination

Students may earn college credit for acceptable scores on the College Level Examination Program (CLEP), the Foreign Language Tests, the Advanced Placement Examinations (AP) of the College Entrance Examination Board ([www.collegeboard.org](http://www.collegeboard.org)), the American College Testing Program (ACT) ([www.act.org](http://www.act.org)), the International Baccalaureate Program (IB) ([www.ibo.org](http://www.ibo.org)), and the DANTES Subject Standardized Test (DSST). Students eligible to take such examinations at MTSU must be currently enrolled. Examinations are administered by Guidance Services, 329 Keathley University Center. Additional information can be obtained by calling (615) 898-2670.

All credit-by-examination scores are submitted to the Admissions Office. The test results are evaluated and recorded on a student's transcript if credit is earned. Semester hours of credit toward graduation are earned on the basis of these tests, but no grades or quality points are given. These credits will not affect a student's academic average. A student may receive no more than 60 semester hours of credit by means of credit-by-examinations, credit for service-related experience, and flight training. The applicant must not have received credit (or audited) in the MTSU course for which credit is recommended. However, credit for CLEP, military service, or special examination may be used to repeat an equivalent course for the removal of an F from a student's permanent record. (This includes both MTSU and transfer records.)

## College Level Examination Program (CLEP)

Students may earn college credit for the following examinations administered by the College Level Examination Program:

### CLEP General Examination

College Mathematics, total score of 45 or greater, three credits, in lieu of MATH 1010

### CLEP Subject Examinations

The following examinations require a score of 50 or greater.

College Algebra, three credits, in lieu of MATH 1710

College Algebra and Trigonometry, four credits, in lieu of MATH 1730

Calculus, four credits, in lieu of MATH 1910

Calculus with Elementary Functions, three credits, in lieu of MATH 1710

Trigonometry, three credits, in lieu of MATH 1720

General Biology, four credits, in lieu of BIOL 1030

General Chemistry, eight credits, in lieu of CHEM 1110, 1120

Accounting, Principles of, six credits, in lieu of ACTG 2110, 2120

Business Law, Introduction to, three credits, in lieu of BLAW 3430

Marketing, Principles of, three credits, in lieu of MKT 3820

Management, Principles of, three credits, in lieu of MGMT 3610

Macroeconomics, Principles of, three credits, in lieu of ECON 2410

Microeconomics, Principles of, three credits, in lieu of ECON 2420

General Psychology, three credits, in lieu of PSY 1410

Abnormal Psychology, three credits, in lieu of PSY 3230

Freshman College Composition—essay required, three credits, in lieu of ENGL 1010

Analysis and Interpretation of Literature—essay required, three credits, in lieu of ENGL 2030

**NOTE:** Essays written as part of the exams in English will be graded by full-time faculty of the English Department. To receive credit, students must

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write essays that demonstrate the positive qualities of superior writing defined in the English Department's Freshman Composition Standards and Sophomore Writing Standards, in addition to scoring an acceptable score on the objective portion of the examination.

American History I: Early Colonizations to 1877,  
three credits, in lieu of HIST 2010

American History II: 1865 to Present, three credits, in lieu  
of HIST 2020

Western Civilization I: Ancient Near East to 1648, three credits,  
in lieu of HIST 1010

Western Civilization II: 1648 to Present, three credits, in lieu of  
HIST 1020

American Government, three credits, in lieu of P S 2010

Sociology, Introductory, three credits, in lieu of SOC 1010

### College Entrance Examination Board (CEEB)

MTSU participates in the Advanced Placement (AP) Program of the College Entrance Examination Board and grants appropriate semester hours credit to qualified students presenting official record of a grade of 3 or above on the appropriate CEEB examination. Semester hours credit in the amount carried by the course or courses from which the student is exempted by CEEB advanced placement examination will be awarded.

U.S. Government and Politics, three credits, in lieu of P S 2010

U.S. History, six credits, in lieu of HIST 2010, 2020

Art History, three credits, in lieu of ART 1910

Studio Art, three credits, in lieu of ART 1610 or 1620

Biology, four credits, in lieu of BIOL 1030

(Science majors may receive credit for BIOL 1110, 1120 upon recommendation of chair, Department of Biology)

Chemistry, eight credits, in lieu of CHEM 1110, 1120

Comparative Government and Politics, three credits, in lieu of  
P S 1010

Computer Science A, four credits in lieu of CSCI 1170

Computer Science AB, four credits, in lieu of CSCI 2170\*

Macroeconomics, three credits for ECON 2410

Microeconomics, three credits for ECON 2420

English Composition/Literature, three credits, in lieu of ENGL 1010

English Language, three credits, in lieu of ENGL 1010

Environmental Science, three credits, in lieu of EST 2810

European History, three credits, in lieu of HIST 1020

Foreign Languages and Literatures, six credits, in lieu of SPAN 1010  
and 1020, FREN 1010 and 1020, GERM 1010 and 1020,  
LATN 1010 and 1020

Calculus AB, four credits, in lieu of MATH 1910

Calculus BC, four credits, in lieu of MATH 1920

Statistics, three credits, in lieu of MATH 1530

Music Theory, three credits, in lieu of MUTH 1000

Physics B, four credits, in lieu of PHYS 2010, 2011\*

Physics C, four credits, in lieu of PHYS 2110, 2111\*

Psychology, three credits, in lieu of PSY 1410

\*NOTE: A grade of 4 or above is required to receive four credits in lieu of  
CSCI 2170, PHYS 2010/2011, PHYS 2110, 2111

### ACT Proficiency Examination Program

Students may earn college credits for acceptable scores on the Proficiency Examination Program of ACT. When standard scores are employed by ACT, the minimum score for credit shall be the standard score equivalent to the 50th percentile rank. When letter grades are employed by ACT, credit will be given for students who present a score of A, B, or C. When the Pass/Fail system is used by ACT, credit will be given for a

grade of Pass. The following examinations have been approved from the ACT Proficiency Examination Program:

#### ACT-PEP

American History, six credits, in lieu of HIST 2010, 2020

Physical Geology, six credits, in lieu of GEOL 1030

plus 2 hours elective in Earth Science

Freshman English, six credits, in lieu of elective credit only

Shakespeare, six credits, in lieu of ENGL 4330, ENGL 4340

Intro. to Criminal Justice, three credits, in lieu of CJA 1100

Criminal Investigation, three credits, in lieu of CJA 4330

Accounting Level I, three credits, in lieu of ACTG 2110

Accounting Level II and Accounting Level III, Area II, three credits,  
in lieu of ACTG 3310

Abnormal Psychology, three credits, in lieu of PSY 3230

Anatomy and Physiology, three credits, in lieu of BIOL 2030

Economics and Finance, three credits, in lieu of ECON 4510

Statistics, three credits, in lieu of MATH 1530 or PSY 3020

NOTE: Regents College Examinations are accepted in lieu of ACT-PEP examinations. Credit is awarded based upon the ACT-PEP criteria listed above.

### DANTES Subject Standardized Test (DSST)

Students may earn college credit for acceptable scores on the DANTES Subject Standardized Test (DSST) if recommended by the American Council on Education (ACE). MTSU awards lower-division and upper-division credit based on the ACE recommendation. Students should submit an official DANTES transcript to the MTSU Undergraduate Admissions office for review. A student may receive no more than 60 semester hours of credit by means of DSST, credit-by-special exam, credit for service-related experience, and flight training.

NOTE: Due to accreditation requirements, the Jennings A. Jones College of Business will not allow DSST upper-division credit to count toward graduation.

### Credit by Special Examination (Undergraduate)

Any student enrolled in the University who receives departmental approval is eligible to receive credit by special examination for certain MTSU courses. Competence gained through study and/or experience may provide background for students who wish to attempt such examinations. Credit by special examination may be given for undergraduate courses listed in the catalog with the exception of

1. courses described as directed research or directed independent study;
2. any course from which student has been exempted by placement examination;
3. courses not approved by the department.

NOTE: A nonrefundable fee of \$20.00 will be charged for each semester hour of credit.

Students seeking credit by examination should, on forms provided by the Admissions Office, request approval from the chair of the department or director of the school in which the course is offered. The method for designing, administering, and evaluating the special examination will be determined by the department/school. The examination shall be comparable in scope and difficulty to a comprehensive final examination in that course. No student will be allowed to repeat a special examination in a given course within one year.



The student will receive credit, to be recorded as P (Pass) on the student's transcript, upon passing the examination with a minimum equivalent grade of C. Credit by special examination cannot be used in the determination of the 25 percent credit earned through instruction offered by MTSU.

### Credit for Freshman English

1. Entering freshmen whose standard score on the English section of the Enhanced ACT is 32 or better will be given six hours credit for ENGL 1010 and 1020. If any such student elects to enroll in composition rather than receive credit, he/she must enroll in ENGL 1010 and 1020.
2. Entering freshmen who present the SAT examination for admission shall select English based on the following:
  - a. Students whose SAT verbal scores are 450 or below are required to undergo further testing.
  - b. Students whose SAT verbal scores are 460 through 710 are required to complete ENGL 1010 and 1020 in sequence.
  - c. Students whose SAT verbal scores are 720 or above may be given credit for ENGL 1010 and 1020.

### International Baccalaureate Program

Students may earn college credit for acceptable scores on examinations administered by the International Baccalaureate Organization.

#### IB Score/MTSU Credit:

Score of 5 or higher in Physics (higher or standard level exam)/PHYS 2010 and 2011, four credits

Score of 6 or higher in Physics (higher or standard level exam)/PHYS 2010, 2011, 2020, and 2021, eight credits

Score of 5 or higher in Biology (higher level exam)/BIOL 1110 and 1120, eight credits

Score of 4 or higher in Mathematics (higher level exam)/MATH 1910, 1920, plus three hours lower-division mathematics elective credit, eleven credits

Score of 6 or higher in History (higher level exam)/three hours lower division history elective credit

Score of 5 or greater in Language A1 (higher level exam)/ENGL 1010, three credits



## Service Credits

Students who have served in the reserves, national guard, or armed forces may receive credit as listed below:

1. Six semester hours credit (4 hours military science—M S 1010, 1020, and 210—and 2 hours health—PHED 2100) is granted for a minimum of three years, eleven months, and twenty days of reserve or National Guard Service in the Armed Forces of the United States. Veterans who have fewer than three years, eleven months, and twenty days will be awarded one semester hour credit for each year of reserve or National Guard duty.
2. Credit will be awarded for formal service schools based on recommendation from the Office of Educational Credit of the American Council on Education. All documentation supporting service-related educational experiences should be filed with the Admissions Office.
3. We recommend submitting discharge papers (or a recent pay stub if currently in service), and any of the following, as appropriate: Community College of the Air Force transcript, Army AARTS transcript, course completion certificates, and/or DD-2295, Application for the Evaluation of Learning Experiences During Military Service.

## Advanced Credit

### Aerospace Training and Experience

University credit may be granted for specific aerospace maintenance technician courses for holders of FAA Airframe and/or Powerplant Certificates. Transfer credit may be granted to Professional Pilot Program majors only for documented flight training completed at an accredited institution of higher learning prior to enrolling at MTSU. However, at least three pilot certificates or ratings must be completed subsequently at the MTSU Flight Education Center. More information is available in the section on the Aerospace Department.

### Registered Nurses

R.N.s with an associate degree or diploma may receive advanced standing credit for nursing courses provided they graduated from a state-approved school of nursing and hold a current license as a registered professional nurse. See the School of Nursing section. The following requirements in the MTSU pre-nursing curriculum will be waived in application to the upper-division curriculum of the B.S.N. Program:

- 2 hrs. Effective Living (PHED 2100)
- 3 hrs. Nutrition course (N FS 1240 or 2220)
- 3 hrs. Sociology (SOC 2010)
- 3 hrs. Psychology (PSY 1410)
- 4 hrs. Anatomy and Physiology (BIOL 2010)
- 8 hrs. Anatomy and Physiology and Microbiology (BIOL 2230 and 2020 if student passes the ACT-PEP Exam with a score in the 50th percentile)

### Advanced Standing Credit

Credit may also be awarded for successful completion of courses listed in the *National Guide for Credit Recommendation for Non-Collegiate Programs* or in the *Directory of the National Program on Non-Collegiate Sponsored Instruction*. More information is available from Admissions.

# International Programs and Services

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## International Programs and Services Office Keathley University Center 124

The International Programs and Services Office (IPSO) serves as the admissions office for international students. All inquiries and correspondence should be addressed to this office. Application packets, including forms and requirement instructions, can be obtained by telephoning or writing IPSO or via <http://www.mtsu.edu/~ipso>. University catalogs cannot be mailed overseas. Applicants abroad can apply for the Fall and Spring Semesters only. Applicants who are already in the United States and in F1 or J1 status may apply for Summer.

The University provides immigration advisement through the International Programs and Services Office. IPSO is responsible for issuing I-20s and DS-2019 documents used for securing visas. Also IPSO evaluates college credits obtained from foreign universities. IPSO serves as a liaison among faculty members, administrators, and international students. The office caters to a variety of international student needs, including housing, academic matters, community affairs, and programming.

## Residency

IPSO determines residency for international students. All international students will be considered out-of-state for tuition purposes until they apply for and receive in-state status. Those who believe they meet the in-state criteria may obtain an application and submit it to the IPSO office. The completed form and supporting documentation should be submitted one month prior to the term. Failure to file may result in payment of out-of-state tuition. Students will be informed of the residency decision by mail.

## Immigration

It is the student's responsibility to see that he/she is in legal immigration status. All immigration documents should be kept in a safe place. According to U.S. Citizenship and Immigration Services (USCIS), F1 and J1 students must be enrolled full time (minimum 12 hours) during Fall and Spring Semesters. Summer enrollment is optional. Also, USCIS requires that F1 and J1 applicants meet all admission requirements prior to enrollment. No conditional enrollment is possible.

## Proof of English Proficiency

An international student must submit a successful Test of English as a Foreign Language (TOEFL) score or University of Michigan English Language Institute (UMELI) test given by the International English Institute in Nashville, Tennessee, before he/she can register at MTSU. Applicants who cannot obtain locally a TOEFL Bulletin of Information for Candidates should write for it well in advance to

Test of English as a Foreign Language  
P.O. Box 899  
Princeton, New Jersey, U.S.A., 08540

Inquiries concerning the TOEFL program should be directed to

TOEFL Program Director  
Educational Testing Service  
Princeton, New Jersey, U.S.A., 08540

For information on UMELI testing, contact

International English Institute  
1226 16th Avenue, South  
Nashville, TN 37212  
(615) 327-1715 or 327-1716

## Financial Aid

International students in F1 or J1 status must provide verification of financial support prior to admission as required by the United States Citizenship and Immigration Services (USCIS). There are no academic or need-based scholarships available for nonimmigrant visa holders.

### Deadlines for Completed\* Files:

**Fall Semester:** July 1 of same year; **Spring Semester:** November 1 of previous year; **Summer Semester:** April 15 of same year. (Applies to students already in the United States.)

*\*NOTE: A completed file contains ALL acceptable materials required for admission.*

## Orientation Information

All F1 and J1 students must attend IPSO orientation before they can register for classes. Information concerning IPSO orientation is sent with the final acceptance letter. Students who are in status other than F or J with USCIS will be invited to CUSTOMS orientation in the summer if they are entering in the Fall Term.

## Health and Accident Insurance

All international students in F1 or J1 status must obtain health and accident insurance as a condition of admission and continued enrollment at MTSU. Minimum requirements for coverage set by the Tennessee Board of Regents are specified on the insurance form provided by IPSO.

## Requirements

An international student will be admitted on the basis of placement recommendation by the American Association of Collegiate Registrars and Admissions Officers. International applicants are subject to academic assessment placement testing criteria and assessment when applicable.

## Application to MTSU:

### Nonimmigrants

1. Complete undergraduate application for admission.
2. Submit **\$30.00 nonrefundable application fee** (money order or check with routing numbers).
3. Submit evidence of freedom from tuberculosis.
4. Submit evidence of two rubeola vaccinations.
5. Submit a financial statement.
6. Submit official TOEFL (computer-based minimum score 173, paper-based minimum score 500) or UMELI (minimum score 80); minimum ACT composite score of 22 or SAT (930) score. (We do not accept any other than ETS official test scores for the TOEFL and SAT.)
7. Submit completed insurance form for F1 and J1 applicants.
8. Submit a front and back copy of 1-94, if applicable.
9. Submit a front and back copy of 1-20 or DS-2019, if applicable.
10. Student must have official transcripts sent from all institution(s) directly to IPSO. If transcripts are written in a foreign language, an official translation in English and an official non-translated transcript must both be sent. A syllabus of each class may be required in order to receive course substitution credit.
11. Regular admission will be granted to applicants who have one of the following:
  - a GPA of 3.00 if a new freshman
  - a minimum composite ACT of 22
  - a minimum 2.7 GPA and minimum ACT of 19
  - a GPA of 2.00 if transferring from an accredited institution.

**NOTE:** Sending all documents except transcript(s) and test scores in one envelope will expedite processing of the application. If the student does not have a Social Security number, the office will assign a student ID number for record-keeping purposes only. The Social Security number or student ID number should be on all correspondence sent to the office. All materials received become the property of MTSU and cannot be returned to the student or forwarded to a third party.

## Special English Courses

All admitted students will be subject to an English Placement exam administered by the Department of English. Results will determine whether a student takes ENGL 1040 (for credit but not fulfilling requirements), ENGL 1010 for ESL (fulfilling requirements), or ENGL 1010. ENGL 1010 for ESL requires permission of department for registration.





# MTSU and TSU Educational Consortium

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Middle Tennessee State University and Tennessee State University have joined in an educational consortium to provide cross-registration opportunities for undergraduate students enrolled at each institution. MTSU students wishing to register for TSU courses should

1. obtain an "Agreement for Admission and Registration Form" from the MTSU Admissions Office, Cope Administration Building 208;
2. complete top of form;
3. have appropriate personnel certify accuracy of data on form;
4. register at MTSU for MTSU courses; pay fees;
5. present form to Admissions and Records personnel at TSU;
6. register for courses at TSU and present MTSU receipt; pay additional fees to TSU if any.

The two consortium advisors or appropriate members of their staffs will provide information to ease in the transition and registration between institutions.

**Tennessee State University**

Admissions Office  
Administration Building 103  
Tennessee State University  
John Merritt Blvd.  
Nashville, TN 37203  
(615) 320-3420

**Middle Tennessee State University**

Admissions Office  
Cope Administration Bldg. 208  
Middle Tennessee State University  
Murfreesboro, TN 37132  
(615) 898-5670

# Application Information

Information on how to obtain an undergraduate application is in the back of this catalog. See page 24 for appropriate application deadlines. An online application is available at [www.applyweb.com/aw?mtsu](http://www.applyweb.com/aw?mtsu).

## New Freshman (Never previously attended college)

1. Complete undergraduate application for admission.
2. Submit **\$25.00\* nonrefundable application fee** (check or money order).
3. Submit official ACT report (not required if 21 years of age or older). Official ACT report can be requested by writing to American College Testing Program, Box 414, Iowa City, Iowa 52240. Please ask them to send it directly to MTSU, Code #3994. ACT scores on official high school transcripts are acceptable, as are SAT scores, Code #1466.
4. Request high school to forward official transcript. If tentative acceptance is desired, request high school transcript through the sixth semester (end of junior year). A final transcript stating date of graduation must be forwarded immediately after graduation.
5. If eligible by GED, have official copy sent directly from reporting institution. **Note:** If GED recipient is less than 21 years of age, ACT scores must be presented.
6. ACT reading and mathematics and English sub-scores will be used to identify students for placement. Additional information will be mailed to applicants upon receipt of official ACT scores.

## Transfer [Previously attended college(s)]

1. Complete undergraduate application for admission.
2. Submit **\$25.00\* nonrefundable application fee** (check or money order).
3. Request an official transcript be forwarded directly to MTSU from each college, business, or technical school attended.
4. If applicant has earned fewer than 9 semester hours, a high school transcript and ACT score must be submitted. (ACT not required if applicant is 21 or older.)
5. If applicant has completed 59 or fewer semester hours, a high school transcript must be submitted. Persons graduating from high school prior to 1989 are exempt.
6. Transfer students without previous English or math course work will be required to take the appropriate portion of the placement test prior to registration. The placement test will assist in course placement and may result in requiring some students to enroll in developmental courses as additions to their degree programs. Students who took the placement test at another Tennessee Board of Regents institution **should have pre-test scores sent to the Admissions Office.**

## Reenrollee (Previously attended MTSU)

1. Complete undergraduate application for readmission.
2. Applicants who have attended other institutions since attending MTSU must have an official transcript forwarded from each institution.

## Regents Online Degree Program

Go to [www.tn.regentsdegrees.org](http://www.tn.regentsdegrees.org) for instructions. Complete the student profile and follow application instructions for New Freshman or Transfer (above).

## Special Student (Audit or noncredit)

1. Complete undergraduate application for admission.
2. Submit **\$25.00\* nonrefundable application fee** (check or money order). The regular registration fee will be charged. Applicants 60 years of age or older or permanently and totally disabled (T.C.A., Section 49-7-113) and domiciled in Tennessee are not required to pay registration fees. (Proof of age or disability required each year; new application each semester.)

## Adult Special Student (Age 21 or older)

1. Complete undergraduate application for admission.
2. Submit **\$25.00\* nonrefundable application fee** (check or money order).
3. Submit official college transcript of last college attended (if college-level work not attempted, official verification of high school graduation or equivalent).
4. Students in this category are not allowed to register for mathematics or English courses or any college-level course with a remedial or developmental prerequisite unless the appropriate portion of the placement test is taken. Students also cannot register for any college-level course that has a prerequisite defined by MTSU academic departments.

**NOTE:** A maximum of 16 semester hours credit may be taken under this classification. Refer to page 27 for additional instructions.

## Transient Student (One semester only)

1. Complete undergraduate application for admission.
2. Submit **\$25.00\* nonrefundable application fee** (check or money order).
3. Submit an official transcript from the college currently being attended.

## 65-Year-Old/Permanently and Totally Disabled Credit Student

1. Complete undergraduate application for admission each semester enrolled.
2. Submit **\$25.00\* nonrefundable application fee.** (Check or money order; required for first application only.)
3. Submit proof of age or disability. (Proof of disability required each year.)
4. Submit proof of high school graduation.

## International Student

The International Programs and Services Office handles application procedures for all international students. Call (615) 898-2238. Information may be found on page 30.

\*Application fee increase from \$15 to \$25 pending Tennessee Board of Regents approval.

# UNDERGRADUATE CAMPUS LIFE

Classes and academic studies are the primary reasons the University exists; however, the hours spent outside the classroom allow students to put their emerging academic and leadership skills into practice. The life of an MTSU student can be as varied and busy or as routine and calm as an individual chooses. Examples appear in this next section. Involvement takes many forms, from performing with a musical ensemble to serving on a Student Programming committee. In addition to promoting personal development and the pursuit of new interest areas, these involvement opportunities engage all students in contributing to the quality of the campus community at MTSU.



# Division of Student Affairs and Enrollment Management

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The Division of Student Affairs and Enrollment Management comprises three independent units that are designed to operate collaboratively in pursuit of the overall goals and mission of the division and the University. Student Life, Academic Support Services, and Enrollment Management share a common purpose of providing hands-on learning opportunities that help students integrate academic and personal growth. Effective enrollment services and other educational partnerships and programs encourage the development of student leadership, campus involvement, and personal responsibility and accountability and promote the creation of meaningful campus rituals and traditions and an inclusive and supportive learning community.

Recognizing that an integral part of the university experience and the individual student's personal development take place through activities outside the formal classroom setting, the Division of Student Affairs and Enrollment Management implements programs and services designed to complement the classroom experience and prepare students to be educated and productive members of society. The University also recognizes that whatever affects a student outside the classroom affects the student inside the classroom. Therefore the Division of Student Affairs and Enrollment Management seeks to accomplish two general goals. The first is to take care of students' needs by providing the services necessary to support students' learning environment. The second is to enhance the academic community by providing opportunities to facilitate social, intellectual, physical, and emotional growth; to assist students in becoming actively involved in campus life; to serve as an advocate for student concerns about the University community; and to encourage an environment responsive to individual differences and representative of the diversity of MTSU's population.

## The Office of the Vice President for Student Affairs and Vice Provost for Enrollment Management

The role of the vice president for Student Affairs and vice provost for Enrollment Management is to be the primary advocate for all students. It is the responsibility of the vice president and vice provost to manage the division so that the best interests of students, individually and collectively, are always given the priority they merit. Although the average student

has little actual contact with the vice president and vice provost, it is vital for every student to recognize that the vice president and vice provost is his/her advocate and that every student has a right to meet and seek assistance. The Office of the Vice President for Student Affairs and Vice Provost for Enrollment Management is located in KUC 212, (615) 898-2440.

## Student Life

The Student Life unit includes those programs that provide students with opportunities for involvement and expression, service to the community, and leadership development. Specific programs/services include

### Adult Services Center

The Adult Services Center serves as an information and referral center for students, especially for those returning to formal studies or beginning college for the first time as adult learners. The center is an advocate for the needs of adult learners. Workshops designed to help the adult learner succeed in entering college are offered. Located in Keathley University Center, Room 320, the center helps make available the services of various other University offices to students on campus at hours other than regular business hours. Students may pick up a variety of forms so that their concerns may be forwarded to the appropriate offices. The center also provides a place to meet and share ideas with other adult learners. A student organization called OWLS (Older Wiser Learners) is coordinated through the center. Additional information is available by calling (615) 898-5989.

### Campus Recreation

The Campus Recreation Office, located in the Recreation Center, administers a comprehensive recreation program for MTSU students. Opportunities include participation in team or club sports, outdoor pursuits, fitness activities, aquatic programs, and leisure clinics. A wide variety of outdoor and other recreation equipment is available for checkout by students. The Recreation Center provides a state-of-the-art facility. The center includes six basketball/volleyball courts, six racquetball courts, an indoor track, an aerobics room, an 8,000-square-foot free weights area, cardiovascular machines, an indoor swimming pool, locker rooms, an indoor gym for soccer and roller hockey, a rock climbing wall, an outdoor pool, an outdoor ropes course, and a sun deck with four sand volleyball courts. The center is open seven days a week during the fall and spring semesters and the summer term. The Recreation Center closes during fall break, Thanksgiving holidays, Christmas holidays, and spring break. The schedule may be adjusted during other University holidays and for certain



special University events. More information on programs or the center may be obtained by contacting the Campus Recreation Office at (615) 898-2104.

### Cheerleading

Coed Squad and All-Girls Squad Cheerleaders are selected each spring. Coed Squad cheerleaders receive scholarships each semester. Candidates must be full-time students and in good standing with the University. Cheerleaders must maintain a minimum semester and cumulative grade point average of 2.00. For more information about these services, please contact Keathley University Center 326S, call (615) 898-5812, or visit the Web site at [www.mtsu.edu/~mtcheer](http://www.mtsu.edu/~mtcheer).

### Fraternities and Sororities

Greek organizations at MTSU are self-governed by three separate bodies. The Interfraternity Council is composed of twelve member fraternities of the National Interfraternity Conference; the Panhellenic Council consists of seven member chapters of the National Panhellenic Conference sororities as well as one local sorority; the National Pan-Hellenic Council governs the affairs of eight historically African-American fraternities and sororities.

The director of Greek Life counsels all three governing bodies and also coordinates programs that facilitate the development of leadership skills, social acumen, and superior scholarship within the Greek community. More information is available by contacting the Office of Greek Life, Keathley University Center 326S or (615) 898-5996.



### Judicial Affairs

MTSU students are citizens of the state, local, and University communities and are expected to observe acceptable standards of conduct for each community. Conduct that adversely affects MTSU's pursuit of its educational objectives, that violates or shows a disregard for the rights of others in the community, or that endangers citizens of the community or their property is subject to disciplinary sanction. MTSU has developed a student judicial system that emphasizes personal accountability for misconduct but is also fair and consistent with students' rights to due process. In addition, MTSU offers mediation as an alternative form of conflict resolution to assist individuals in developing their own solutions to conflict situations. More detailed information with regard to student conduct may be found in the *Rights and Responsibilities of Students at MTSU* publication or by contacting the assistant dean for Judicial Affairs and Mediation Services, Keathley University Center, Room 326S, (615) 898-5812.

### Multicultural Affairs

The Office of Multicultural Affairs provides a welcoming and supportive environment for minority students. The office also serves as a link between ethnic minority students and the University community. The mission of the Office of Multicultural Affairs is to provide support services for students; to assist in achievement of life goals; and to increase academic, social, cultural, moral, and physical development. In addition, the director of Multicultural Affairs is an advocate for the needs of the ethnic minority student population. Services offered include registration assistance, financial aid, counseling, academic referral, tutoring, mentoring, and programming in multicultural awareness. More information may be obtained by calling (615) 898-2987 or writing to MTSU P.O. Box 88, Murfreesboro, TN 37132.

### Student Government Association

The Student Government Association (SGA) at Middle Tennessee State University represents the mechanism through which students are afforded the opportunity to participate in University governance by ensuring an exchange of ideas and opinions between the student body and the administration. The purposes of the SGA are to promote student welfare, provide training in the general principles of the democratic process, and prepare students to become responsible citizens. The SGA actively seeks to protect the rights of students and to improve the quality of student life. Students are encouraged to become involved in SGA activities and to contact the SGA Office in Keathley University Center, Room 208, with any concerns arising from their enrollment at MTSU.

### Student Health Services

Student Health Services, located in McFarland Health Services Building, accommodates students on an outpatient basis only. Students must be enrolled at the time they seek service to be eligible for care according to the following provisions:

1. Services include consultation for individual problems and treatment of minor illnesses and injuries, lab tests, FAA

physicals, women's health clinic, and a dispensary. Health Services personnel include board certified physicians, certified mid-level practitioners, and registered nurses. Hours of operation are 8:00 a.m.–4:00 p.m. Monday through Friday.

2. All information resulting from care, treatment, and diagnosis involving Health Services personnel and students is confidential unless the best interests of the individual and/or the campus community are jeopardized.
3. The University will not be responsible for charges for any professional services other than those rendered by University Health Services personnel. If a student seeks the services of the University physician or any other physician in conjunction with the physician's private practice, the University shall have no financial responsibility and the student should expect to pay the usual fee for any services rendered.
4. At no time will medical treatment be given at University expense in private homes or to anyone while off the campus. Professional charges for these services must be borne by the student.
5. Local resources available nearby include the Rutherford County Health Department, Middle Tennessee Medical Center (including emergency room services), and walk-in medical clinics.

### Student Information

The Keathley University Center Information Desk maintains an information system on currently enrolled students. Persons seeking help locating a particular student should call Student Information at ext. 2782.

### Student Insurance

Students are urged to carry health insurance to cover illnesses and accidents that may occur while they are enrolled because coverage is not provided by the University. Information about the Student Accident and Sickness Insurance Plan, available at low cost, can be obtained at registration, at Health Services, or at the Keathley University Center Information Desk. International students should contact the International Programs and Services Office for information about health insurance.

### Student Newspaper

The student newspaper, *Sidelines*, is distributed free on campus three times weekly during the fall and spring semesters and once each week during the summer term. *Sidelines* is completely produced by students and enjoys comprehensive editorial freedom for its contents. All students are encouraged to become involved in the production of *Sidelines*. For more information, contact the *Sidelines* office in James Union Building Room 308 or call (615) 898-5240.

### Student Organizations

MTSU students with common interests are encouraged to join together and realize the social and professional benefits to be gained by the exchange of ideas and development of interpersonal relations through participation in student organizations. Registered student organizations have access to

University facilities and may apply for funding from the Student Activity Fee Committee. The coordinator of Student Organizations and Community Service, Keathley University Center, Room 326S, is available to answer questions and facilitate formation and registration of new organizations. The Office of Student Organizations and Community Service can provide a complete listing of registered student organizations. For more information about these services, please contact (615) 898-5812.

### Student Programming

Student Programming provides the administrative framework for extracurricular activities promoted by Special Events. The primary purpose of Special Events is to plan and present activities which serve the cultural, educational, and social interests of the student body and, when possible, the general community. Special Events also gives those students who are directly involved in its programs the opportunity to exemplify creative thinking, practice good public relations, develop leadership skills, and gain valuable hands-on experiences.

Special Events functions are run entirely by students through five special interest programming groups. Freshmen and new students are eligible and encouraged to join any one of the groups. Membership continues from year to year as long as the student is at MTSU. The Special Events groups are

1. *Ideas and Issues*, which brings to campus well-known, thought-provoking speakers;
2. *Fine Arts*, which sponsors outstanding performers in the fields of dance, drama, and music;
3. *Films*, which is responsible for selecting, booking, and showing full-length movies;
4. *Concerts*, which brings to MTSU some of the best-known professional entertainers in concert and up-and-coming artists in showcase and noon show series;
5. *Production*, which is responsible for all Special Events technical needs including sound, lights, and staging.

Students who are interested in joining Special Events should come by the Office of Student Programming located in Keathley University Center, Room 308, and complete an application. Additional information may be obtained by coming to the office or by calling (615) 898-2551.

### Student Publications

Student Publications publishes the *Midlander* yearbook and *Collage* magazine. These publications are staffed by students and provide experiences in writing, editing, design, photography, advertising, and public relations. All students are encouraged to join the staffs. Publication production is under the general management of the University's standing committee on student publications and the student publications director, but decisions on content are made by student editors. *Midlander* is the most permanent and complete historical record of the people, events, and environment of MTSU in a given year. Although the yearbook is distributed in the succeeding summer, the production process goes on year-round. The yearbook editor is chosen each spring and serves for one year. The yearbook is available for purchase through the *Midlander* office, James Union Building, Room 306. *Col-*

lage serves as an outlet for creativity of all varieties. Published each semester, the magazine may include poetry, fiction and nonfiction, original art, and photography by students. An editor is chosen in the spring and serves for one year. Many staff members receive a small stipend for their work on the publications in addition to valuable preprofessional experience. Applications for the publications staff are available in the Student Publications Office, James Union Building, Room 306.

### Women's Center

The June Anderson Women's Center (JAWC) has been serving women at MTSU since 1977. Support groups, workshops, and programs for women are offered during the academic year. A free legal clinic is open the last Thursday of each month during fall and spring semesters. The office, located on the main floor of the James Union Building, Room 206, provides a safe space for women to meet together and organize projects. A resource and referral file includes information on financial aid for women, housing, and community legal, health, and mental health services. Students are invited to attend and to volunteer for Women's Center activities. During spring semester, the Women's Center, working collaboratively with the National Women's History Month Committee, sponsors events, programs, and films which bring together the campus and community in a celebration of women's contributions to culture and society. Additional information about the Women's Center's activities or services is available by calling (615) 898-2193 or via the Internet at [www.mtsu.edu/~jawc](http://www.mtsu.edu/~jawc).

## Academic Support Services

The Academic Support Services unit creates academically engaging communities, fosters a campus-wide commitment to learning, and is primarily responsible for those programs and services that unite the academic program with the student's daily experience. Academic Support Services programs welcome students into the University community and involve them as active participants in the learning community. Academic Support Services comprises the following areas:

### Academic Advising

Students with declared majors are assigned a faculty advisor by their academic department and may also seek academic advising from each of the professional advisors within the five academic colleges. Undeclared majors and students with courses in the Developmental Studies program receive academic advising services through the Academic Support Center (ASC). Each student working with the ASC has a personal advisor assigned based on last name. The ASC also provides graduate assistant advisors within designated residence halls to offer later afternoon and early evening advising opportunities. Career exploration and advising services are available in the Academic Support Center for students still trying to

select a major as well as those considering changing their majors. The ASC coordinates learning communities, the community reading program, the Raider Book Clubs, and other academic initiatives. The center is located in the Keathley University Center 324. To contact your ASC advisor or for more information, call (615) 898-2339 or visit the ASC Web site at [www.mtsu.edu/~advising](http://www.mtsu.edu/~advising).

### Career and Employment Center

The University provides a year-round, centralized placement service for students and alumni through the Career and Employment Center located in Keathley University Center, Room 328. Satellite locations serve students from the Jennings A. Jones College of Business in the Business and Aerospace Building, Room S123; services for students in the College of Basic and Applied Sciences are available in Jones Hall, Room 158. The program is designed to assist prospective graduates and alumni in securing career positions. Each year employers from business, industry, government, and education conduct on-campus interviews with students in the Career Center. Other placement services include the development of reference files for credentials, career job listings, part-time and summer employment opportunities, and the career library. Students seeking part-time jobs in the community may apply through the Student Employment Center, (615) 898-2500. Referrals to prospective employers will be made. You may visit the Career and Employment Web site at [www.mtsu.edu/~career](http://www.mtsu.edu/~career).

### Child Care Lab

The Campus Child Care Lab, located in the Womack Lane Building on Homecoming Circle, provides quality care for children ages 3–5 whose parents are attending MTSU. In the fall and spring semesters, first priority is given to families who need Monday/Wednesday/Friday care OR Tuesday/Thursday care; second priority is given to families who need full-time care (Monday–Friday). In the summer term only, first priority is given to families who need full-time care. The facility is licensed for 24 children. In addition to educational programming, a hot lunch and two snacks are provided daily. Hours of operation are 7:00 a.m.–5:00 p.m., Monday–Friday. The Campus Child Care Lab also provides preschool teaching experiences for MTSU students. For more information, call (615) 898-2970 or visit the Web site at [www.mtsu.edu/~stuaff/childcare](http://www.mtsu.edu/~stuaff/childcare).

### Cooperative Education

Cooperative Education is a planned learning process, integrating classroom studies with supervised work assignments at job sites in Murfreesboro and other areas throughout Tennessee and elsewhere. This program allows students to explore and clarify academic and career goals, gain work experience related to academic majors, make educational experiences more rewarding, establish a post-graduation job/career contact, acquire skills/experiences related to career goals, and procure financial assistance. The office is in Keathley University Center, Room 326-O. Visit the Web site at [www.mtsu.edu/~coop](http://www.mtsu.edu/~coop).



### Disabled Student Services

Disabled Student Services offers a wide variety of services to students with disabilities. The office acts as an advocate for disabled students at the University, surveying the needs of these students and developing programs to meet those needs. Information and assistance can be obtained by calling (615) 898-2783, visiting the office located in Keathley University Center, Room 120, or by visiting the Disabled Student Services Web site at [www.mtsu.edu/~dssemail](http://www.mtsu.edu/~dssemail). MTSU's ADA/504 coordinator is Watson Hannah, 119 Cope Administration Building, (615) 898-5366.



### First-Year Experience

Cummings Hall and Corlew Hall, seven-story highrise buildings on the north side of campus, are the home of MTSU's First-Year Experience Program. Services and programs offered in these residence halls are geared toward first-year students (29 college credit hours or less) and are designed to enhance students' academic success at MTSU. The First-Year Experience Program offers a number of unique services including lower-division classes taught in the Cummings Hall classroom, academic advisors who hold office hours in the buildings, tutors who live on each floor of the residence halls and who provide tutoring services in the residence hall tutoring centers, and special workshops and programs designed to assist students with their transition to MTSU. If you are interested in living in Corlew or Cummings Halls as part of the First-Year Experience Program, please indicate this as the selected option on the application for housing. For more information about the First-Year Experience Program, please contact the Housing and Residential Life Office at (615) 898-2971 or visit the Web site at [www.mtsu.edu/~housing](http://www.mtsu.edu/~housing).

### Guidance Services

Guidance Services invites students to make an appointment and talk about virtually any personal concern or question they might have. Serving as the counseling center for MTSU, Guidance Services offers personal counseling and crisis intervention and referral services, assisting students in their emotional, intellectual, and social growth. Guidance Services also coordinates the University's testing program, offering such standardized tests as the CLEP, ACT residual, the PRAXIS series, and others. The Guidance Services office is located in Keathley University Center, Room 329. To learn more, visit them at [www.mtsu.edu/~countest](http://www.mtsu.edu/~countest).

### Housing and Residential Life

MTSU has living spaces for more than 3,400 students. Students living on campus are part of a vital living/learning community which emphasizes academic excellence; interaction with students, faculty, and staff; and active involvement in the campus community. Each residence hall and apartment complex is staffed with trained student resident assistants who are supervised by professional area coordinators. Many amenities are made available to residents including cable television, computer labs (in selected buildings), Internet connections in each room, and 24-hour desk services (also in selected buildings). Apartments that can accommodate students with families are also located on campus. Students are encouraged to make application for housing as early as possible. More detailed information with regard to fees, regulations, and types of housing can be found on pages 44–46. The main office for Housing and Residential Life is located in Keathley University Center, Room 300. Students wishing to report maintenance or custodial concerns should contact (615) 898-4116 or fill out a request for service online at the Housing and Residential Life Web site at [www.mtsu.edu/~housing](http://www.mtsu.edu/~housing).

### Honors Living/Learning Program

The Wood and Felder residence halls on the east side of campus are the home of MTSU's Honors Living and Learning Center. Application to this residential facility is limited to students who meet Honors College eligibility requirements. Students who live in the Honors Living and Learning Center must also enroll in at least one Honors class (3 credit hours) each semester. Honors College students living in Wood or Felder Halls have access to special facilities designed to help them make the most of their on-campus experience including taking classes in a classroom located within the residence hall, use of a computer lab, Internet connections in each student room, and access to special Honors College programs and advisement. Wood and Felder Halls are located adjacent to Walker Library. Students who live in these halls have the opportunity to interact with their professors outside of class, participate in Honors College seminars, and gain valuable leadership skills. For more information about eligibility requirements for the Honors Living and Learning Center, please contact the Housing and Residential Life Office at (615) 898-2971 or the MTSU Honors College at (615) 898-2152.



## Leadership Development

Leadership Development at MTSU promotes a comprehensive array of both classroom and cocurricular opportunities designed to enhance personal growth, leadership skills, and community involvement. Guided by the philosophy that leadership is best developed in a relational and reflective environment, Leadership Development works to fully develop the leadership potential we believe is present in every student. Programs and services include leadership conferences, scholarship and awards opportunities, and the Lightning Leadership Learning Community. We also provide information about MTSU courses related to leadership issues and about the interdisciplinary minor in Leadership Studies. To learn more about Leadership Development at MTSU, visit the office located in Keathley University Center, Room 306, or visit the Leadership Development Web site at [www.mtsu.edu/~mtleader](http://www.mtsu.edu/~mtleader).

## Orientation (MTSU CUSTOMS)

CUSTOMS is the MTSU orientation program that helps new undergraduate students make the transition into the University; prepares new students for MTSU's educational opportunities; and initiates the integration of new students into the intellectual, cultural, and social climate of the institution. During CUSTOMS, new students will meet faculty, staff, and other new students; register for courses; and learn about important programs, services, and requirements of the University. CUSTOMS orientations are offered on several different dates during the summer for those students attending the fall term and in December for those students who will begin their MTSU careers in the spring term. Registration is required and fees apply. All students who are tentatively accepted to MTSU receive CUSTOMS registration materials and informational brochures. Orientation and advisement is required of all new students prior to registration for classes. Questions concerning CUSTOMS orientation should be directed to the office of Student Development, Keathley University Center, Room 326, (615) 898-2454. You may also visit the CUSTOMS Web site at [www.mtsu.edu/~customs/](http://www.mtsu.edu/~customs/).

## Raider Learning Communities

The Raider Learning Community Program (RLC) helps to create a small-college atmosphere within the large university environment of MTSU. Emphasizing the close relationships between students and faculty that make small, private colleges special, Raider Learning Community students are able to take advantage of ongoing connections within a smaller learning community while also being able to access all the resources and programs of the large public university. RLC members belong to small groups of 25 students each who enroll as a group in at least two courses in the fall semester and one in the spring semester. Course blocks usually include University 1010 and one other General Education course. On-campus RLC students are assigned to shared living space within the First-Year Experience Programs in Cummings and Corlew Halls. RLC participants who live off campus or at home are encouraged to make Cummings and Corlew Halls their "home base" on campus and to enjoy the

facilities and services provided in these halls. Many students find the RLCs give them a built-in group of friends and academic colleagues, enhancing the first-year experience. For more information about both on-campus and off-campus participation in the Raider Learning Communities, please contact the Housing and Residential Life Office at (615) 898-2971 or the Academic Support Center at (615) 898-2339.

## Student-Athlete Enhancement Center

The Student-Athlete Enhancement Center provides academic advising, tutoring, computer labs, and study halls for MTSU athletes. The center is located near Gate One of the Floyd Football Stadium. Call (615) 898-5610 for more information.

## Student Development

The Office of Student Development provides MTSU students and their families with a variety of services relating to their transition to MTSU. CUSTOMS, the new student orientation program, helps prepare freshmen and transfer students for a successful transition to the MTSU campus. The MTSU Parents Association is a volunteer organization that provides opportunities for parents to become involved in their students' education. The Parents Association is also a vehicle for parents to ask questions and make suggestions, and it is a support system that eases the transition that accompanies sending students off to college. Student Development also coordinates the Distinguished Lecture Fund, which promotes appearances by nationally and internationally known speakers who focus on the timely discussion of regional, national, and global issues in a variety of fields. Contact the Office of Student Development by visiting the staff in Keathley University



Center, Room 326, by calling (615) 898-2454, or on the Web at [www.mtsu.edu/~stuaff/studev/](http://www.mtsu.edu/~stuaff/studev/).

### Service Learning

The Service Learning Initiative at Middle Tennessee State University provides faculty and students with the training, resources, and support necessary to integrate academic instruction with community service experiences. Using the community as an extension of the classroom, service learning classes give students ways to apply newly acquired skills and knowledge to real-world problems and situations in the Murfreesboro community. Classroom time is a structured opportunity for students to think, talk, or write about what they did and saw during the actual service activity. Service learning helps students enhance their critical, reflective thinking as well as a sense of caring for the community. Service learning classes will vary each semester. For more information about Service Learning, contact the Academic Support Center in the Keathley University Center, Room 324, or call (615) 898-2339.

### Student Support Services

A federally funded TRIO program, Student Support Services provides academic counseling, tutoring, academic workshops, cultural events, and grant awards to full-time undergraduate students who have a verified academic need and meet at least one of the following criteria: first-generation college student (neither parent has earned baccalaureate degree), eligible for the Pell grant, or have a documented disability. Student Support Services works with students to increase their success in persisting to graduation and helps participants to achieve their educational goals. For additional program information, contact Student Support Services in the Midgett Building, Room 101, by phone at (615) 898-5443, or on the Web at [www.mtsu.edu/~ssupport](http://www.mtsu.edu/~ssupport).

### Study Abroad (International Education and Exchange)

The International Education and Exchange office (IEE) supports students and faculty participating in study abroad, exchange programs, and other international education opportunities. Located in Keathley University Center 325, IEE provides information about opportunities originating from MTSU as well as those coordinated through various study abroad consortiums. IEE staff will assist students in completing required applications, coordinating insurance requirements, and investigating financial aid and will provide pre-departure orientations and reentry debriefing. IEE also assists faculty interested in teaching in an MTSU or other study abroad program. For information regarding International Education and Exchange programs, call (615) 898-5179.

## Enrollment Management

The Enrollment Management unit provides the administrative framework for prospective students from the time of preadmission through graduation. The Enrollment Management area collaborates with the faculty and other administrative units to produce the best academic experience possible for each student. The Office of the Assistant Vice Provost for Enrollment Management is located in Cope 207 or may be contacted by phone at (616) 898-5499. Following are the departments represented within Enrollment Management.

### Undergraduate Admissions

The Undergraduate Admissions office provides information to prospective freshmen and transfer students on admission to the University, required test scores, and other required credentials. Admissions counselors work extensively with high school guidance counselors as well as counselors from two-year institutions to provide a smooth transition to MTSU.

### Financial Aid

Financial Aid information is detailed earlier in this catalog. Please refer to pages 40–42.

### International Programs and Services

The International Programs and Services office serves as the admissions office for international students and permanent residents. Immigration advisement and issuance of INS documentation is provided in addition to information about housing, academic matters, community affairs, and programming. Please refer to page 30 for additional information.

### Records Office

The Records Office is responsible for maintenance of student records, provision of transcripts and grade reports, certification of student enrollment, and certification of graduation requirements for all undergraduate degree candidates.

### Scheduling Center

The Scheduling Center builds and maintains the schedule of classes for each term and makes classroom assignments. The final exam schedule is developed in conjunction with the schedule of classes. Personnel are also available in the Scheduling Center to assist students with registration for classes.

### Withdrawal Office

The Withdrawal Office provides assistance to those withdrawing from the University for the term. Students finding it necessary to withdraw (completely separate) from the University after having selected classes for a future term should contact the coordinator of withdrawals if unable to complete the withdrawal process via WebMT at [www.mtsu.edu](http://www.mtsu.edu) or if withdrawal becomes necessary after announced deadlines. All complete withdrawals for the summer term must be accomplished by contacting the Withdrawal Office. Please refer to page 55 for additional information.

# Beyond the Classroom

A number of student activities grow out of academic departments and enhance classroom work by providing opportunities for practical experience and training. Interested students should contact the chair of the appropriate department for information on requirements for participation and on the availability of credit through such activities. Included in these activities are

## McLean School of Music

The Band of Blue, MTSU's marching band; Symphonic Band; Wind Ensemble; Chamber Winds; University Chorus; Chamber Choir; Meister Singers; Schola Cantorum; Women's Chorus; MTSU Singers; Opera Workshop; Symphony Orchestra; Jazz Ensembles; Jazz Combos; Salsa Bands; Steel Drum Ensembles; Percussion Ensembles; Commercial Music Ensembles; Mixed Chamber Ensembles; Chamber Brass Ensembles; Guitar Chamber Ensemble; Piano Chamber Ensemble; String Chamber Ensembles; and Woodwind Chamber Ensembles are all organizations of student performers. Each welcomes qualified non-music majors and performs frequently throughout the year. Many travel to perform regionally and nationally.

## Department of Speech and Theatre

**University Theatre**—Four theatrical productions provide an opportunity to experience all aspects of theatre—performance, design, technology, children's theatre, and theatre in education.

**University Dance**—The Dance minor is housed in the Department of Speech and Theatre. Each year the Department produces an "An Evening of Dance" and one or more studio showcases. All students are invited to audition for "An Evening of Dance." The department also has a Ballet Association for students interested in the art of ballet.

**Debate**—Numerous competitive tournaments are scheduled with universities throughout the nation from September through March. Annual on-campus public debates are also sponsored by MTSU Debate. The MTSU Debate program is open to all students. No previous debate experience is required.

## College of Mass Communication

Two radio stations and a community cable television channel provide opportunities for students to gain experience and knowledge about the mass media and communications:

**WMOT**, the University's National Public Radio affiliate, is a professionally managed public service radio station featuring jazz, news, and information programming. Located at 89.5 on the FM dial, WMOT-FM also provides enrichment opportunities for selected students majoring in Mass Communication.

**WMTS** is a student-operated alternative radio station, located at 88.3 on the FM dial, which carries an eclectic mix of music, news, and student information.

**Channel 10**, the University student-operated cable channel, carries sports, news, instructional, and entertainment programming.

## Alumni Association

The mission of the Middle Tennessee State University Alumni Association is to foster sound relationships between the University and its alumni and to provide a strong force for the advancement and support of the University by its alumni. A Board of Directors governs the association and the Alumni Relations Office facilitates the programs and services of the association. Establishing and promoting scholarships is an ongoing endeavor of the Alumni Association. The Alumni Relations Office is located in the Alumni Center, one of the four original campus buildings. Visit [www.mtalumni.com](http://www.mtalumni.com) or call 1-800-533-MTSU.





## Athletics

The MTSU Athletics Program strives for excellence in the development of its student-athletes and the quality of its several sports teams. The program supports the academic, athletic, and social education of its student-athletes by encouraging them to develop the values of respect for themselves and others and to take pride in achievement and making positive contributions to the communities in which they live.

MTSU is committed to quality athletic programs that bring the campus community together and promote a sense of pride and tradition in academic and athletic excellence. Athletics also brings the University regional and national recognition and provides a link between the University and its alumni and the community at large. It helps generate alumni and public support for all aspects of the University. The athletics program provides quality faculty and leadership to campus programs. It gives students, faculty, and alumni opportunities for innovative public service activities such as the “Reading Raider” program, which has partnered with area elementary schools to promote student reading skills. It uses ath-

letic, financial, and physical resources to maintain and develop athletic programs to accomplish the mission of the University.

The University is a member of the Sun Belt Conference and National Collegiate Athletic Association, competing in NCAA Division I in all sports. MTSU is represented annually in baseball, basketball, cross country, football, golf, tennis, indoor track, and outdoor track for men and by basketball, cross country, golf, soccer, softball, tennis, indoor track, outdoor track, and volleyball for women.

Both full-time and part-time students are admitted to all home football, basketball, and baseball games by presenting their valid ID cards at the gate. Athletic events in other sports require no admission and are open to the public and campus community. The ticket office is located at Floyd Stadium Gate 1A. Additional ticket information can be obtained by phoning (615) 898-2103 or 1-888-YES-MTSU.

MTSU’s Title IX coordinator is Forrestine Williams, 220 Cope Administration Building, (615) 898-2185.





# UNDERGRADUATE ACADEMIC LIFE

Arranged alphabetically under the five colleges are details of each academic department including, for most of them, the requirements for majors, degrees available, recommended programs, and course descriptions.

Also included in the following section are

- Interdisciplinary Minors
- African American Studies
- Aging Studies
- Global Studies
- Women's Studies
- The University Honors College
- McNair Scholars Program
- Developmental Studies
- Cooperative Education
- University Courses
- Army ROTC
- Air Force ROTC
- Academic Abbreviations



# Interdisciplinary Minors

Interdisciplinary minors provide programs of study that focus on a specific theme by combining courses from different disciplines and several academic departments. These minors require the student to complete a minimum of 15 to 21 hours from a list of specific courses. Unless otherwise noted, a student may take no more than 6 hours of courses from a single department until he or she surpasses the required minimum number of hours necessary for completing the minor. Exceptions to this rule may be found within the discussions of several of the minors below. In most cases, a student is also limited to just 3 hours of credit toward the minor in the same department or discipline in which he or she is taking a major. Except for the Paralegal Studies minor, no course may be counted both for major and minor credit. Students must fulfill all departmental prerequisites for any course within an interdisciplinary minor. In some cases, advisors may approve course substitutions within these program requirements.

The specific requirements and the coordinating department for each of the University's interdisciplinary minors are described below. Also listed is the faculty advisor for each minor, his or her campus location, and the coordinating department.

## African American Studies

Director: Adonijah Bakari, PH 223  
See page 85 for additional information.

## Aging Studies

Director: Ron Aday, AMG 123  
See page 86 for additional information.

## American Culture

Advisor: Susan E. Myers-Shirk, Department of History, PH 281

The interdisciplinary minor in American Culture is intended for students who want to explore a variety of disciplines as a way of thinking about U.S. culture. This minor is ideal for students who have wide-ranging interests. It is also an excellent choice for students who are politically engaged and want to understand contemporary U.S. culture and its problems. It is especially suited for students who wish to highlight the liberal arts element of their education.

### Required Courses (6 hours):

HIST 3040 Topics in American Cultural History OR  
HIST 4740 American Cultural and Intellectual History  
ENGL 3310 Nineteenth-Century American Literature OR  
ENGL 3320 Twentieth-Century American Literature OR  
ENGL 3360 Multicultural Literature of the United States

### Additional Required Courses:

In addition to the core courses in history and English, students are required to take 12 semester hours of upper-division courses chosen in consultation with the minor advisor. Please see the advisor for a list of approved courses for the minor.

## Archaeology

Advisor: Kevin E. Smith, Department of Sociology and Anthropology, BLH 2003

The minor in Archaeology draws upon the resources of anthropology, geography and geology, and history to provide a comprehensive view of modern archaeological techniques, particularly in those disciplines involved with diachronic studies of human cultures. In consultation with the advisor and appropriate departmental advisors, students may pursue flexible elective tracks focusing on the application of archaeological methods and techniques in anthropology, geography, or history. The minor in Archaeology requires 18 credit hours, including 9 hours of required courses and 9 hours of general electives from the list below. Each student is required to take electives from at least two departments, and a selection from all three departments is encouraged.

### Required Courses (9 hours):

ANTH 2210 Introduction to World Prehistory  
ANTH 3610 Archaeological Methods OR  
ANTH 4950 Archaeological Field School OR  
HIST 4870 Field Course in Historical Archaeology  
GEOG 4380 Cartography OR  
GEOG4490 Remote Sensing OR  
GEOG4530 Geographic Information Systems

### Electives (choose 9 hours):

ANTH 2230 Tennessee Archaeology  
ANTH 2240 Sunken Continents, Lost Tribes, and Ancient Astronauts  
ANTH 3210 Archaeology  
ANTH 3520 North American Prehistoric Archaeology  
ANTH 3521 Mesoamerican Archaeology  
ANTH 3610 Archaeological Methods  
ANTH/  
GEOG3720 Cultural Ecology  
ANTH 4620 Environmental Archaeology  
ANTH 4950 Archaeological Field School  
GEOG 4380 Cartography  
GEOG 4490 Remote Sensing  
GEOG 4530 Geographic Information Systems  
GEOG 4540 Geography of Native Americans  
GEOL 1040 Physical Geology  
GEOL 4020 Geomorphic Regions of the United States  
HIST 3110 Explorations in Public History  
HIST 4860 Historical Archaeology  
HIST 4870 Field Course in Historical Archaeology  
(same as GEOG 4772)  
HIST 4930 Fundamentals of History Preservation and Cultural Restoration Management

## Asian Studies

Advisor: Ida Fadzillah, Department of Sociology and Anthropology, PH 316

The minor in Asian Studies is designed to provide students an opportunity to examine the cultures, economies, geography, histories, governments, philosophies, politics, and religions of Asia. The minor requires 18 semester hours within an interdisciplinary structure. All students pursuing the minor are required to take 6 hours from the core and 12 hours from the general electives. Directed readings, special topics, internships, or language instruction in any pertinent department may be pursued with prior approval of the minor advisor. No more than 6 hours of these courses may be counted towards the minor.

### Core (6 hours):

ANTH 3510 Peoples and Cultures of Asia  
GEOG 3440 Geography of Asia  
P S 3310 Comparative Asian Governments  
PHIL 3200 Oriental Thought

### Electives (12 hours):

ANTH 3510 Peoples and Cultures of Asia  
ECON 3540 Japanese Economy and Business  
GEOG 3440 Geography of Asia  
GEOG 4500 Geography of the Middle East  
HIST 3080 Topics in Modern Middle East History  
HIST 4440 The Middle East  
HIST 4450 Japan  
HIST 4460 China  
PHIL 3200 Oriental Thought  
P S 3190 Middle East Politics  
P S 3310 Comparative Asian Governments  
R S 4050 Judaism, Christianity, and Islam

## Business Administration

Advisor: Jill Austin, Department of Management and Marketing, BAS N121

The minor in Business Administration provides students with an overview of business. Business disciplines represented by the required courses in the minor include accounting, business law, computer information systems, finance, management, and marketing. The minor is designed for students who need a general knowledge of business as a foundation for work in their disciplines of study. A 2.00 GPA is required.

### Required Courses (18 hours):

INFS 2200 Introduction to Microcomputing OR  
INFS 3100 Principles of Management Information Systems  
ACTG 3000 Survey of Accounting for General Business OR  
ACTG 2110, 2120 Principles of Accounting I, II  
FIN 3000 Principles of Financial Management OR  
FIN 3010 Business Finance  
BLAW 3400 Legal Environment of Business OR  
BLAW 3430 Commercial Law  
MGMT 3610 Principles of Management  
MKT 3820 Principles of Marketing

## Classical Studies

Advisor: Rosemary Kew, Department of Foreign Languages and Literatures, BDA 328

The minor in Classical Studies is designed to increase students' knowledge of ancient Greece and Rome and of their continuing influence through the ages. Students are required to complete two courses of Intermediate Latin (2010 and 2020), for which the prerequisites are LATN 1010 and 1020 or equivalent. A placement test is available in the Department of Foreign Languages and Literatures.

### Required courses (6 hours):

LATN 2010 Intermediate Latin I  
LATN 2020 Intermediate Latin II

### Electives (12 hours):

ENGL 2020 Themes in Literature and Culture  
ENGL 3390 Classical Mythology  
ENGL 3400 European Literature to 1400  
PHIL 1030 Introduction to Philosophy  
PHIL 4010 History of Ancient and Medieval Philosophy  
PHIL 4020 History of Modern Philosophy  
HIST 4410 Classical History  
P S 4230 Classical Political Theory  
U H 3500 Junior Interdisciplinary Seminar (Greek Culture)\*  
U H 4600 Senior Interdisciplinary Seminar\*

\*GPA of 3.00 required

## Early Modern European Studies

Advisor: Pat Conley, Department of Foreign Languages and Literatures, BDA 301

The minor in Early Modern European Studies requires 18 hours and is designed to increase students' knowledge of European cultures during the period from the end of the Middle Ages through the nineteenth century.

### Select 18 hours from the following:

ART 3910 Renaissance Art History  
GEOG 3430 Geography of Europe  
GEOG 3460 Geography of the Former Soviet Union  
HIST 1010 Survey Western Civilization I  
HIST 4240 Europe: Absolutism and Enlightenment  
HIST 4250 Europe: The French Revolution and Napoleon  
HIST 4270 Europe: 1815-1900  
HIST 4310 Germany to 1870  
HIST 4330 Russia to the Twentieth Century  
HIST 4350 England to 1783

### Languages:

FREN 1010, 1020, 2010, 2020, Elementary I, II and Intermediate I, II  
GERM 1010, 1020, 2010, 2020, Elementary I, II and Intermediate I, II  
SPAN 1010, 1020, 2010, 2020, Elementary I, II and Intermediate I, II  
RUSS 1010, 1020, 2010, 2020, Elementary I, II and Intermediate I, II  
LATN 1010, 1020, Elementary I, II

### Literature:

ENGL 3120 English Literature: The Sixteenth Century  
ENGL 3210 English Literature: Restoration and Eighteenth Century  
ENGL 3220 English Literature: 1790-1850  
ENGL 3230 English Literature: The Victorian Period  
ENGL 4420 European Literature: 1400-1800  
FREN 3050 Survey of French Literature and Culture (Middle Ages-1800)  
FREN 4030 Topics in Nineteenth-Century French Literature  
FREN 4060 Topics in Neoclassical French Literature

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GERM	3050	Survey of German Culture
GERM	4010	Topics in German Literature and Culture
GERM	4020	German Literature: 1725-1880
SPAN	3060	Introduction to Hispanic Culture
SPAN	4020	Spanish Literature I
MUHL	4630	Seventeenth- and Eighteenth-Century Music*
MUHL	4640	Nineteenth-Century Music*
PHIL	4020	History of Modern Philosophy
P S	4230	Classical Political Theory
THEA	4800	Theatre History I: Greek Period to Restoration
THEA	4810	Theatre History II: Restoration to Present

\*By permission of instructor only

### Entertainment Technology

Advisor: Cosette Collier, Department of Recording Industry, COMM 221

The Entertainment Technology minor is designed for students who want either to broaden or to focus their knowledge of various technologies that support the entertainment industry. Students should consult with the minor advisor before enrolling in minor classes. Courses may not be used to complete major or other minor requirements as well. Courses taken to complete General Education requirements may be used to complete minor requirements. This minor requires a 2.00 GPA in all coursework. Students must complete 18 hours from the courses listed below. Some courses may have prerequisites.

#### Select 18 hours from the following:

ETIS	1310	Basic Technical Drawing and Sketching
ET	3610	Introduction to Electricity and Electronics
ET	4640	Industrial Electricity
THEA	2110	Stagecraft
THEA	3000	Sound Design for Arts and Entertainment
THEA	3100	Make-Up Techniques for Performers
THEA	3200	Introduction to Costume for Arts and Entertainment
THEA	3400	Introduction to Lighting for Arts and Entertainment
THEA	4000	Advanced Sound Design for Arts and Entertainment
THEA	4100	Special Effects Make-Up
THEA	4200	Costume Technology and Production
THEA	4220	Costume Design for Arts and Entertainment
THEA	4390	Topics in Scenography
THEA	4400	Intermediate Lighting for Arts and Entertainment
RIM	1230	Musicianship for Engineers
RIM	3010	Audio for Media (not for RI majors)
RIM	3450	Advanced Musicianship for Engineers
RIM	4190	Principles and Practices of Electronic Music (not for RI Production and Technology majors)
RIM	4200	Applied Digital Audio
RIM	4290	Electronic Music II
RIM	4320	Concert Promotion and Touring
RIM	4400	Techniques of Recording
RIM	4440	Critical Listening
RIM	4560	Concepts and Development of Multichannel Audio
RIM	4570	The Art of Soundtrack Design
RIM/		
EMC	4580	Disk-Based Audio Post-Production
RIM	4590	MIDI Studio Techniques
RIM	4650	Advanced Technology of Recording
RIM	4660	Advanced Music Engineering
RIM	4670	Studio Production
RIM	4910	Advanced Production Seminar
EMC	3040	Electronic Graphics for Television
EMC	3120	Sight, Sound, and Motion

EMC	3130	Television Production
EMC	3140	Multi-Camera Directing and Producing
EMC	3150	Single-Camera Directing and Producing
EMC	3300	Introduction to Digital Animation
EMC	3310	Intermediate Digital Animation
EMC	3420	Corporate Video
EMC	4940	Advanced Seminar - Electronic Media Production
PHOT	2050	Basic Black and White Photography
PHOT	3200	Still Digital Imaging
PHYS	1600	Physics of Music

**NOTES:** Recording Industry majors electing the Entertainment Technology minor are required to maintain a 2.00 GPA on all coursework in the minor in order to graduate.

Minors in Entertainment Technology are urged to be aware of course prerequisites and co-requisites.

### Entrepreneurship

Advisors: Marsha Smith, Department of Business Education, Marketing Education, and Office Management, BAS N450; John Mullane, Department of Management and Marketing, BAS N110

The Entrepreneurship minor requires 21 hours and focuses on special competencies needed for planning, organizing, and operating a new venture or small business.

#### Required Courses (21 hours):

BMOM	1400	Introduction to Business
BMOM	2900	Entrepreneurship
ACTG	3000	Survey of Accounting for General Business
FIN	3000	Principles of Financial Management
MGMT	3610	Principles of Management
MKT	3820	Principles of Marketing
MGMT	4920	Small Business Management

**Note:** Upper-division courses in Entrepreneurship may not be taken until the student is a junior.

### Environment and Human Society

Advisor: Lynn Nelson, Department of History, PH 285

The interdisciplinary minor in Environment and Human Society helps students who want to explore their relationship with the natural world in ways other than advanced scientific research. Students taking this minor will have the opportunity to look at many different aspects of our attempts to understand and solve environmental problems. Classes are offered in anthropology, biology, English, environmental science and technology, geography, history, journalism, philosophy, and recreation and leisure services. Students considering pursuing a career focusing on environmental matters, those in the sciences hoping to broaden their understanding of environmental issues, or anyone interested in learning more about humanity's relationship with the environment should consider this minor.

The Environment and Human Society minor requires 18 semester hours from the following courses. Students may not count more than 6 hours in any one department, or more than 6 hours of classes offered through the College of Basic and Applied Sciences. Other specific requirements are explained below.



**Select 18 hours from the following:**

BIOL	3070	Biology Seminar on Environmental Problems*
BIOL	3220	Environmental Regulations and Compliance
BIOL	3240	Introduction to Evolution*
BIOL	4331-4333	Biome Analysis*
BIOL	4540	Topics in Environmental Education
EST	2810	Introduction to Environmental Science*
ENGL	3300	Native American Literature
ENGL	4850	Selected Topics in Literature and Language***
GEOG	1030	Physical Geography
GEOG	3120	Geography of Tennessee**
GEOG	3410-3470	Geography of the United States and Canada, Latin America, Europe, Asia, the Former Soviet Union, Africa**
GEOG	4280	Special Problems and Topics in Geography***
GEOG	4310	Resource Management and Conservation
GEOG	4340	Historical Geography
GEOG	4480	Recreational Geography
GEOG	4500	Geography of the Middle East**
GEOG	4540	Geography of Native Americans**
HIST	3020	Topics in American History***
HIST	3030	Topics in African American History***
HIST	3040	Topics in American Cultural History***
HIST	3070	Topics in World History***
HIST	4640	Environmental History
REC	4580	Seminar: Outdoor Recreation and Environmental Issues
JOUR	3520	Specialized Journalism***
JOUR	3530	Feature Writing***
PHIL	4800	Readings in Philosophy***
ANTH	3310	Human Origins
ANTH	3720	Cultural Ecology
ANTH	4620	Environmental Archaeology

\*Environmental science class; students must complete 3 hours from one of these courses.

\*\*Regional geography class. Students can only count 3 hours toward a minor.

\*\*\*Special topics class. Content and projects must meet the mission of the Environment and Human Society minor. Check with the minor advisor for the applicability of each class.

**Film Studies**

Advisor: Robert Holtzclaw, Department of English, PH 352

An interdisciplinary minor in Film Studies is designed to enhance the educational opportunities available to students interested in learning about and through film. Courses in the minor focus on various issues connected to narrative, theory, style, and assorted social/cultural concerns.

To fulfill requirements for the minor, a student will complete 18 hours (six courses) from those listed below. No more than 9 hours (three courses) should be taken in any single department, and courses from at least three of the participating departments should be included in the 18-hour total.

**Select 18 hours from the following:**

ANTH	3640	Visual Anthropology
COMM	3300	Communication Theory, Culture, and Films
ENGL	3080	Women and Film
ENGL	3650	Literature and Film
ENGL	3660	Film Genre
ENGL	3670	Film History
ENGL	4650	Film Theory and Criticism
ENGL	4860	Special Topics in Film Studies (topic varies; may be repeated)

FREN	4020	Topics in French Film
HUM	3500	Latino Images in U.S. Film
HUM	4550	The Grail Legend in Film and Literature
HIST	3170	History of the American South in Film
HIST	3180	History of Modern War in Film
JOUR/		
EMC	3000	Introduction to Motion Pictures
PHIL	3600	Philosophy and Film
P S	3100	Politics and Film
P S	3200	British Government and Film
RIM	4570	The Art of Soundtrack Design
SOC	4200	African American Film, Theatre, and Television Images

**Note:** Other film-related courses are sometimes offered which can be counted as part of the Film Studies minor with prior approval. Consult your schedule book or the Film Studies advisor to determine if such courses are available for a particular semester.

**Global Studies**

Director: Douglas Heffington, PH 252

See page 87 for additional information.

**Great Books**

Advisor: Michael J. Neth, Department of English, PH 1002

The Great Books interdisciplinary minor is designed to offer students the opportunity to broaden their undergraduate education and supplement their own major field by studying the most important and influential texts in a number of different disciplines. Students will be presented with the ways in which some of the most significant books ever written shaped, altered, and influenced the formation of human civilization.

The Great Books minor requires a minimum of 18 hours of courses, with the provision that no more than 6 hours may be taken in a single department. The program advisor may approve the substitution of courses under some circumstances.

**Required course (3 hours):**

PHIL	4600	Philosophy of History
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**Electives (15 hours):**

ANTH	3710	Topics in Anthropology
ENGL	3010	British Literature I
ENGL	3020	British Literature II
ENGL	3090	Nineteenth-Century Women Writers
ENGL	3100	Women Writers of the Twentieth Century
ENGL	3110	English Literature: The Medieval Period
ENGL	3120	English Literature: The Sixteenth Century
ENGL	3130	English Literature: The Seventeenth Century
ENGL	3210	English Literature: Restoration and Eighteenth Century
ENGL	3220	English Literature: 1790-1850
ENGL	3230	English Literature: The Victorian Period
ENGL	3310	Nineteenth-Century American Literature
ENGL	3320	Twentieth-Century American Literature
ENGL	3330	Southern Literature
ENGL	3340	The Black Experience in Modern Afro-American Literature
ENGL	3400	European Literature to 1400
ENGL	3440	The Bible as Literature
ENGL	4100	Browning and Tennyson
ENGL	4210	Literary Criticism
ENGL	4220	Backgrounds of Modern Literature
ENGL	4240	Modern British Literature
ENGL	4330	Histories and Comedies of Shakespeare

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ENGL	4340	Tragedies of Shakespeare
ENGL	4360	English Drama: 1475-1642 (excluding Shakespeare)
ENGL	4420	European Literature: 1400-1800
ENGL	4430	Modern European Literature
ENGL	4460	Modern Novel
ENGL	4470	Modern Drama
ENGL	4610	Chaucer: The Canterbury Tales
ENGL	4620	Milton
ENGL	4630	The American Renaissance
HUM	2610	Foreign Literature in Translation
HIST	3020	Topics in American History
HIST	3090	Topics in European History
HIST	4410	Classical History
PHIL	3200	Oriental Thought
PHIL	4010	History of Ancient and Medieval Philosophy
PHIL	4020	History of Modern Philosophy
PHIL	4050	Nineteenth-Century Philosophy
PHIL	4200	Existentialism
PHIL	4300	American Philosophy
PHIL	4400	Analytic Philosophy
PHIL	4450	Marx and Marxism
PHIL	4500	Philosophy of Science
PHIL	4600	Philosophy of History (required for all students in the minor)
P S	4230	Classical Political Theory
P S	4700	American Political Thought
P S	4920	Modern Political Theory
PSY	4490	Operant Conditioning (philosophy of B.F. Skinner's behaviorism)
SOC	4150	Topics in Sociology
THEA	4800	Theatre History I: Greek Period to Restoration
THEA	4810	Theatre History II: Restoration to Present
U H		Depending on whether the subject calls for close examination of important texts, some upper-division Honors courses may be designated as Great Books courses. Examples of Honors courses participating in the minor include "Legends of King Arthur" and "Great Books of the Middle Ages."
U H	4600	Senior Interdisciplinary Seminar (Approved Great Books Topics Only)

### Non-College of Liberal Arts course:

JOUR/RIM/EMC	3650	Free Expression, Mass Media, and the American Public
JOUR	4800	Seminar in Media Issues

### Health Care Services

Advisor: Margaret Fontanesi-Seime, Department of Social Work, PH 367

The minor in Health Care Services is interdisciplinary in nature with aging studies, human sciences, physical education, nursing, social work, and sociology courses. Consisting of both traditional and pre-health science coursework, the program is designed to meet the needs of students wishing to work in a variety of health care settings.

Eighteen semester hours are required to complete the minor in Health Care Services.

### Select 18 hours from the following:

N FS	3260	Community Nutrition
N FS	3280	Nutrition in Health Promotion
HLTH	2600	Introduction to Health Professions
HLTH	4270	Bioethical Issues in Health Education
HLTH	4340	Wellness and Healthy Lifestyles
PSY	4050	Applied Psychopharmacology
PSY	4650	Health Psychology
S W	4640	Health: Organizations, Policy, and Ethics
SOC	4040	Health Care Delivery Issues
SOC	4090	Health Care Management
SOC	4360	Medical Sociology
SOC	4900	Sociology Internship: Health Care Setting

### Latin American Studies

Advisor: Oscar Diaz, Department of Foreign Languages and Literatures, BDA 326

The minor in Latin American Studies is designed to increase students' awareness of the Latin American countries and their cultures, languages, arts, geography, history, and economic and political status. The minor requires 18 semester hours.

**Note:** All students minoring in Latin American Studies are required to complete SPAN/GEOG/ART/ANTH/SOC/P S 2105 Introduction to Latin American Studies. In addition, all students are required to complete Intermediate Spanish II (SPAN 2020) or equivalent. SPAN 2010 and 2020 cannot count for both a Spanish major and a Latin American Studies minor. SPAN 2010 and 2020 may count for the B.A. degree language requirement and a Latin American Studies minor.

### Required courses (6 hours):

SPAN/GEOG/ART/ANTH/SOC/PS	2105	Introduction to Latin American Studies
SPAN	2020	Intermediate Spanish II (or equivalent)

### Electives (12 hours):

ANTH	3512	Peoples and Cultures of South America
ANTH	3513	Peoples and Cultures of Mexico and Central America
ANTH	3521	Mesoamerican Archaeology
ART	3871	Mesoamerican Art
ART	3872	Andean Art
ART	3880	Latin American Art
ECON	4470	Economic Development of the Third World
GEOG	3420	Geography of Latin America
HIST	4480	South America
HIST	4490	Mexico and the Caribbean
HIST	4510	Colonial Latin America
HIST	4520	Modern Latin America
HIST	4530	Latin American-United States Relations
P S	3210	International Relations
P S	3900	Latin American Politics
SPAN	2010	Intermediate Spanish I
SPAN	3060	Introduction to Hispanic Culture
SPAN	4040	Latin American Literature I
SPAN	4050	Latin American Literature II
SPAN	4060	Special Topics in Hispanic Studies
SPAN	4090	Special Topics in Latin American Literature or Culture
SPAN	4910	Directed Readings in Latin American Literature and Culture
COMM	3560	Intercultural Communication

*Directed readings or special topics in any pertinent department may be pursued with prior approval of the instructor involved and the Latin American Studies advisor.*

## Linguistic Studies

Advisor: Richard Morris, Department of Foreign Languages and Literatures, BDA 332

The minor in Linguistic Studies exposes students to the many ways that humans use and interact with language. Students are presented with a comprehensive view of how linguistics is examined in the disciplines of anthropology, English, psychology, communication studies, communication disorders, classical and modern languages, and philosophy. Courses are grouped into three categories: required courses (descriptive linguistics, psycholinguistics, sociolinguistics), guided electives, and general electives. Upon completing the minor, the student should have broad knowledge of linguistics and linguistic principles, as well as specific knowledge relating to a chosen language of focus. The minor requires 18 credit hours. NOTE: Relevant directed readings, independent study, special topics, or internships in any pertinent department may be pursued towards the minor with prior approval of the minor advisor. Students with transfer credit in a modern or classical language not offered at Middle Tennessee State University may request a substitution from the advisor.

### Required courses (9 hours):

#### Descriptive Linguistics (3 hours from the following):

CDIS	3150	Phonetics
CDIS	3400	Anatomy and Function of the Speech Mechanism
ENGL	3570	Introduction to Linguistics
ENGL	4510	Modern English Grammar and Usage
SPAN	3120	Spanish Phonetics and Pronunciation

#### Psycholinguistics (3 hours from the following):

CDIS	3250	Speech and Language Development*
PSY	4820	Psychology of Language

\*Students must take a section of CDIS 3250 that is designated for CDIS majors.

#### Sociolinguistics (3 hours from the following):

ANTH	3410	Linguistic Anthropology
COMM	3225	Gender Communication
COMM	3560	Intercultural Communication

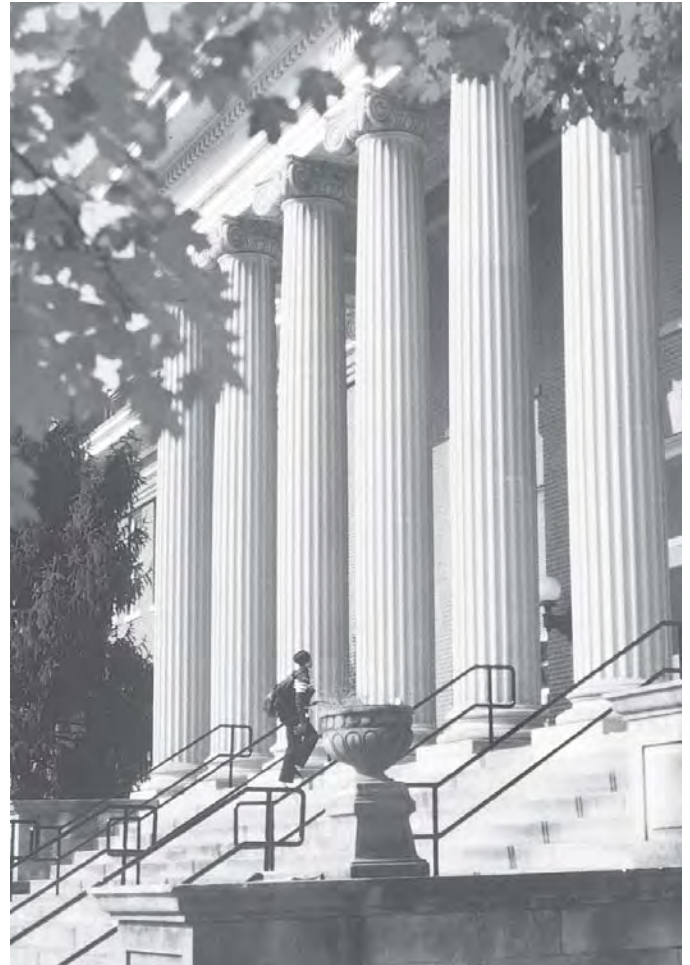
#### Guided Electives (6 hours):

FREN	1010, 1020	Elementary French I, II
FREN	2010, 2020	Intermediate French I, II
FREN	3010	Advanced Conversation and Composition
FREN	3040	Intensive Conversational French
GERM	1010, 1020	Elementary German I, II
GERM	2010, 2020	Intermediate German I, II
GERM	3010, 3020	Advanced Composition and Conversation
ITAL	1010, 1020	Elementary Italian I, II
JAPN	1010, 1020	Elementary Japanese I, II
JAPN	2010, 2020	Intermediate Japanese I, II
JAPN	3010, 3020	Advanced Japanese
LATN	1010, 1020	Elementary Latin I, II
LATN	2010, 2020	Intermediate Latin I, II
PORT	1010, 1020	Elementary Portuguese I, II
PORT	2010, 2020	Intermediate Portuguese I, II
RUSS	1010, 1020	Elementary Russian
RUSS	2010, 2020	Intermediate Russian I, II
SPAN	1010, 1020	Elementary Spanish I, II
SPAN	2010, 2020	Intermediate Spanish I, II
SPAN	3010, 3020	Advanced Spanish I, II

### General Electives (3 hours):

CDIS	3050	Introduction to Communication Disorders
COMM	3300	Communication Theory, Culture, and Films
ENGL	4530	History of the English Language
ENGL	4570	Special Topics in Linguistics
PHIL	4350	Philosophy of Language
PSY	4040	Introduction to Cognitive Psychology
SPAN	4010	History of the Spanish Language

NOTE: Alternately the student may choose any required course as an elective. Guided electives may not be taken as general electives.



## Media, History, and Culture

Advisor: Kristine McCusker, Department of History, PH 285

The minor in Media, History, and Culture consists of 18 hours. Two core history courses are required—HIST 4070, 4130, or 4740 and HIST 3050 or 4760. Students who have not had JOUR/EMC 1020 must take it also; history majors must substitute JOUR/EMC 1020 for one of the core history courses. Journalism and Electronic Media Communication majors must select their four electives from College of Liberal Arts courses. No more than two courses may be taken for minor credit from any one department.



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### Required courses (6 hours)\*:

HIST	4070	Modern America, Post-1945 OR
	HIST	4130 The Sunbelt OR
	HIST	4740 American Cultural and Intellectual History
HIST	3050	Topics in Southern Studies OR
	HIST	4730 American Social History

\*History majors must substitute JOUR/EMC 1020 for one of the history core.

### Electives (12 hours):

ENGL	3080	Women and Film
ENGL	3610	Survey of Popular Culture
ENGL	3650	Literature and Film
ENGL	3660	Film Genre
ENGL	3670	Film History
ENGL	4650	Film Theory and Criticism
ENGL	4860	Special Topics in Film Studies
HIST	3050	Topics in Southern Studies
HIST	4070	Modern America, Post-1945
HIST	4130	The Sunbelt
HIST	4740	American Cultural and Intellectual History
HIST	4760	America Divided: Race, Class, and Gender
MUHL	3670	History of Popular Music in America
PHIL	3600	Philosophy and Film
P S	3100	Politics and Film
P S	3320	Public Opinion
SOC	3320	Public Opinion and Propaganda
SOC	4170	The Social Context of Southern Music
SOC	4200	African American Film, Theatre, and Television Images
THEA	4810	Theatre History II: Restoration to Present

### Non-College of Liberal Arts courses:

JOUR/EMC	1020	Understanding Mass Media
JOUR/EMC	3000	Introduction to Motion Pictures
JOUR/RIM	3100	Music as Popular Culture
JOUR/EMC	3510	Media History and American Culture
JOUR/RIM/EMC	3650	Free Expression, Mass Media, and the American Public
RIM	3000	History of the Recording Industry
U H	4600	Senior Interdisciplinary Seminar: Literature and Television
WMST	4204	Symposium: Women and Television

**NOTE:** Mass Communication courses cannot be taken for minor credit by Journalism and Electronic Media Communication majors.

## Medieval Studies

Advisor: Louis Haas, Department of History, PH 223

The minor in Medieval Studies allows students to pursue their interest in the Middle Ages by taking courses in a combination of academic disciplines, including history, English, foreign languages, and philosophy. A student may earn no more than 3 hours credit toward the minor in the same department or discipline in which he/she is taking a major. No course may be taken for both major and minor credit.

### Select 18 hours from the following:

ENGL	3110	English Literature: The Medieval Period
ENGL	3400	European Literature to 1400
ENGL	4610	Chaucer: The Canterbury Tales
FREN	4050	Topics in Medieval and Renaissance French Literature
HIST	4210	Middle Ages
HIST	4220	Renaissance Europe
HIST	4420	The Medieval Mediterranean World

HUM	3950	Women in the Middle Ages
LATN	1010	Elementary Latin I
LATN	1020	Elementary Latin II
PHIL	4010	History of Ancient and Medieval Philosophy
SPAN	4070	Special Topics in Spanish Literature or Culture
U H	4600	Senior Interdisciplinary Seminar: The Medieval Experience

## Native American Studies

Advisor: Kevin E. Smith, Department of Sociology and Anthropology, BLH 2003

The minor in Native American Studies draws upon the resources of art, English, geography and geology, history, and sociology and anthropology to provide a comprehensive examination of the prehistory, history, culture, literature, art, and contemporary issues of Native Americans. The minor in Native American Studies requires 18 credit hours, including 3 hours of required courses, and 15 hours of general electives from the list below. **Note:** ANTH 4910, ART 3870, ART 4960, GEOG 4280, and U H 3500 (directed, independent study, or variable topics courses) cannot be applied towards this minor without prior approval of the minor advisor. No more than 3 hours of these courses may be applied towards the minor.

### Required Course (3 hours):

SOC	4240	Race and Ethnic Relations
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### Electives (15 hours):

ANTH	3515	Peoples and Cultures of Native North America
ANTH	3520	North American Prehistoric Archaeology
ANTH	4910	Special Projects
ART	3870	Native American Art
ART	4960	Independent Studies in Art History
ENGL	3300	Native American Literature
ENGL	4850	Selected Topics in Literature/Language: Native American Literature
GEOG	4280	Special Problems and Topics in Geography
GEOG	4540	Geography of Native Americans
HIST	4690	Native American History
U H	3500	Junior Interdisciplinary Seminar

## Paralegal Studies

Advisors: Clyde Willis, Department of Political Science, PH 255; John R. Vile, Department of Political Science, PH 209A

The Paralegal Studies minor is designed for those who do not plan to attend law school but who would like to work as legal assistants in law offices. Such assistants typically do legal research and handle routine legal matters under the supervision of attorneys. The minor requires a total of 30 hours, but where appropriate, students are permitted to double count classes in their major and minor. There is no limit on the number of hours a student may take in a single discipline. Students interested in this minor should contact an advisor in the Political Science Department as early in their careers at MTSU as possible.

### Required courses (15 hours):

P S	2440	Law and the Legal System
PLEG	3010	Litigation
PLEG	3410	Family Law



PLEG 3420 Torts  
P S 3530 Legal Writing and Research

**Electives (6 hours):**

PLEG 4010 Internship  
P S 4590 Administrative Law  
BLAW3400 Legal Environment of Business  
BLAW3430 Commercial Law  
BLAW3460 Insurance Law  
BLAW4420 Estate Administration  
BLAW4470 Real Estate Law  
BLAW4490 Industrial Relations Legislation  
BLAW4500 Employment Discrimination Law  
RIM 3700 Copyright Law  
CJA 2400 The Judicial Process  
CJA 3250 Criminal Law

**Students must also meet the following collateral requirements (9 hours):**

P S 2010 American Government and Politics  
BMOM 1550 Introduction to Word Processing Skills OR  
BMOM 2330 Word Processing Concepts  
INFS 2200 Introduction to Microcomputing

**Russian Studies**

Advisor: Andrei Korobkov, Department of Political Science, PH 251

The Russian Studies minor is designed to increase students' knowledge and understanding of the politics, history, geography, culture, and language of Russia and Eastern Europe.

The minor consists of 18 semester hours. No course may be counted for both major and minor credit. Students must abide by policies (including prerequisites) and prohibitions established by their departments in their major fields. A student may take no more than 6 hours in a single department (9 in Political Science) unless he/she surpasses the required 18 hours (Study Abroad programs in Russia, the post-Soviet state, or Eastern Europe or the Special Topics courses dealing with that region will not count toward this limit).

**Required courses (9 hours):**

P S 3770 The Former Soviet Union

**Plus two of the following:**

HIST 4330 Russia to the Twentieth Century  
HIST 4340 Russia in the Twentieth Century  
GEOG 3460 Geography of the Former Soviet Union  
P S 3790 Eastern European Politics  
RUSS 1010 Elementary Russian I  
RUSS 1020 Elementary Russian II  
ENGL 4850 Selected Topics in Literature and Language

**Electives (9 hours):**

**Foreign Languages and Literatures**

RUSS 1010 Elementary Russian I  
RUSS 1020 Elementary Russian II  
RUSS 2010 Intermediate Russian I  
RUSS 2020 Intermediate Russian II

**Geosciences**

GEOG 3460 Geography of the Former Soviet Union

**History**

HIST 4330 Russia to the Twentieth Century  
HIST 4340 Russia in the Twentieth Century

**Both of the above or one of the above and one of the following:**

HIST 3150 Global History: 1945-1975  
HIST 4240 Europe: Absolutism and Enlightenment  
HIST 4270 Europe 1815-1900  
HIST 4280 Europe 1900-1939  
HIST 4290 Europe Since 1939  
HIST 4840 World War II

**Philosophy**

PHIL 4450 Marx and Marxism  
PHIL 4800 Readings in Philosophy (approval of the minor advisor is required regarding the topic of study)

**Political Science**

P S 3780 Study Abroad (approval of the minor advisor is required regarding the country of study)  
P S 3790 Eastern European Politics  
P S 4390 Special Topics in Political Science (approval of the minor advisor is required regarding the country of study)  
P S 4920 Modern Political Theory  
**Or one of the above plus one of the following:**  
P S 4220 World Politics  
P S 4240 American Foreign Policy  
P S 4250 U.S. National Security Policy

**Southern Studies**

Advisor: Robert Hunt, Department of History, PH 276

The Southern Studies minor provides a multidimensional examination of a diverse geographical, historical, and cultural region called the South. The minor consists of 18 semester hours taught in five different departments. There are no required core courses. Students may take no more than three courses from any one of the participating departments and must take at least one course from three of the five participating departments. No course taken in the Southern Studies minor can count for credit in a student's major.

**Select 18 hours from the following:**

ENGL 3330 Southern Literature  
ENGL 3340 The Black Experience in Modern Afro-American Literature  
ENGL 4010 Folklore  
EST 4760 Seminar in Environmental Science and Technology  
EST 4810 Energy and the Environment  
GEOG 4340 Historical Geography  
GEOG 4470 Rural Settlement  
HIST 3050 Topics in Southern Studies (various courses are offered under this label—consult with minor advisor)  
HIST 3170 History of the American South in Film  
HIST 4150 The American South  
HIST 4640 Environmental History  
HIST 4750 African American Social and Intellectual History  
SOC 4170 The Social Context of Southern Music

### Twentieth-Century European Studies

Advisor: Fred Colvin, Department of History, PH 268

The minor allows students to pursue a broad coverage of many aspects of twentieth-century Europe or a particular country or theme. The minor attracts students who are interested in a multidisciplinary understanding of contemporary European politics, culture, economics, and social and intellectual developments. Courses are selected from nine different departments in consultation with the minor's advisor.

#### Select 18 hours from the following:

ART	4900	Nineteenth- and Twentieth-Century Art
ECON	4440	International Economics
ECON	4660	History of Economic Thought
GEOG	3430	Geography of Europe
GEOG	3460	Geography of the Former Soviet Union
HIST	4370	Britain in the Twentieth Century
HIST	4790	Women in Europe Since 1700
HIST	4260	France Since 1870
HIST	4280	Europe 1900-1939
HIST	4290	Europe Since 1939
HIST	4320	Germany Since 1870
HIST	4340	Russia in the Twentieth Century
MGMT	4710/	
MKT	4710	International Business
PHIL	4200	Existentialism
PHIL	4240	Recent Continental Philosophy
P S	3300	Comparative European Governments
P S	3770	The Former Soviet Union
P S	4920	Modern Political Theory

#### Languages

FREN 1010, 1020, 2010, 2020, 3010, 3020 Elementary I, II; Intermediate I,II; and Advanced  
 GERM 1010, 1020, 2010, 2020, 3010, 3020 Elementary I, II; Intermediate I,II; and Advanced  
 RUSS 1010, 1020, 2010, 2020 Elementary I,II and Intermediate I, II  
 SPAN 1010, 1020, 2010, 2020, 3010, 3020 Elementary I, II; Intermediate I,II; and Advanced

#### Literature and Film

ENGL	3700	British Popular Culture
ENGL	4220	Backgrounds of Modern Literature
ENGL	4240	Modern British Literature
ENGL	4430	Modern European Literature
ENGL	4450	Modern Poetry
ENGL	4460	Modern Novel
ENGL	4470	Modern Drama
FREN	3060	Survey of French Literature (1800-present)
FREN	4010	Topics in Twentieth-Century French Literature
FREN	4020	Topics in French Film
GERM	4010	Topics in German Literature and Culture
GERM	4030	German Literature: 1880 to Present
SPAN	4030	Spanish Literature II
HUM	2610	Foreign Literature in Translation

### Urban Studies

Advisors: Sekou Franklin, Department of Political Science, PH 250; John R. Vile, Department of Political Science, PH 209A

Students must take 18 hours from the following courses, no more than 6 hours of which may be in a single department.

#### Select 18 hours from the following:

ABAS	4350	Soil Survey and Land Use
ABAS	4640	Landscaping
ECON	4310	Problems in Government Finance
ECON	4500	Urban and Regional Economics
EST	4810	Energy and the Environment
GEOG	4370	Urban Geography
GEOG	4490	Remote Sensing
HIST	4660	American Architectural History
HIST	4670	American Urban History
P S	3400	Municipal Government
P S	4050	Introduction to City and Regional Planning
PSY	4120	Psychology of Criminal Behavior
PSY	4380	Group Dynamics
SOC	4510	Social Movements and Social Change
SOC	4660	Urban and Community Studies

### Women's Studies

Director: Elyce R. Helford, Peck Hall 109B  
 See page 88 for additional information.

### Writing

Advisor: Trixie Smith, Department of English, PH 328C

An interdisciplinary minor in Writing, offering writing-intensive selections across the curriculum, requires a minimum of 18 hours of courses chosen from the list below, with the provision that no more than 12 hours may be taken in any one department.

#### Select 18 hours from the following:

BMOM	3510	Business Communication
BMOM	4510	Business Report Writing
EMC	3020	Writing for the Electronic Media
EMC	3060	Writing for Digital Media
EMC	4020	Advanced Scriptwriting
ENGL	3500	Applied Writing
ENGL	3520	Professional Writing
ENGL	3540	Fiction Writing
ENGL	3550	Poetry Writing
ENGL	3560	Playwriting
ENGL	4000	Writing Internship
ENGL	4005	Advanced Composition
ENGL	4510	Modern English Grammar and Usage
ENGL	4870	Special Topics in Writing
JOUR	3450	Editing
JOUR	3520	Specialized Journalism
JOUR	3530	Feature Writing
JOUR	4300	Reviewing and Criticism
P S	3530	Legal Writing and Research
THEA	4600	Storytelling
THEA	4820	Playwriting

# African American Studies Program

**Adonijah L. Bakari, Director**  
Peck Hall 223

The African American Studies Program offers an undergraduate interdisciplinary minor. The primary objective is to provide students an opportunity to examine the multidimensional, multicultural experiences of African Americans and their responses to the blending of an African heritage and American culture.

The person who completes the African American Studies minor will have enlarged perspectives and increased skills and marketability for jobs in the fields of education, criminal justice, social work, governmental departments and agencies, and in the private sector.

Interdisciplinary minors are open to all students in the University. A student may take no more than 6 hours in a single department toward an interdisciplinary minor unless he or she surpasses the required 18-21 hours necessary for that minor. A student may take no more than 3 hours credit toward a minor in the same department or discipline in which he/she is taking a major, and no course may be counted for both major and minor credit. Students must fulfill all departmental prerequisites for any course within an interdisciplinary minor. The minor in African American Studies requires 21 semester credit hours including 12 hours of foundation courses.

## Required courses (12 hours):

AAS	2100	Introduction to African American Studies
AAS/ENGL	2020	Themes in Literature and Culture: Survey of Afro-American Literature
AAS/PSY	3250	Perspectives on Black Psychology
AAS/HIST	2040	Survey African American History I OR
AAS/HIST	2050	Survey African American History II

## Electives (9 hours):

AAS	4600	Interdisciplinary Seminar in African American Studies
AAS	4990	Independent Study in African American Studies
AAS/ANTH	3514	People and Cultures of Africa
AAS/ENGL	3340	The Black Experience in Modern Afro-American Literature
AAS/GEOG	3470	Geography of Africa
AAS/HIST	2040	Survey African American History I
AAS/HIST	2050	Survey African American History II
AAS/HIST	4430	Sub-Saharan Africa
AAS/HIST	4490	Mexico and the Caribbean
AAS/HIST	4750	African American Social and Intellectual History
AAS/MUHL	4530	History of Jazz
AAS/P S	3180	African Politics
AAS/SOC	4200	African American Film, Theatre, and Television Images
AAS/S W	3200	Cultural Diversity: Competency for Practice
SOC	4240	Race and Ethnic Relations

## Courses of Related Interest

Courses considered consistent with the goals and objectives of the African American Studies program are designated as "of related interest." However, African American Studies minors **MAY NOT** use these courses towards the minor without prior approval from the program's director.

ECON	4470	Economic Development of the Third World
HIST	3030	Topics in African American History
HIST	4760	America Divided: Race, Class, and Gender
PSY	4720	Multicultural Perspectives in Psychology and Education

## Courses in African American Studies [AAS]

**2100 Introduction to African American Studies.** Three credits. Introductory interdisciplinary survey course which examines the African American experience from enslavement through the present; social, religious, political, and cultural interactions evolving from that experience.

**4600 Interdisciplinary Seminar in African American Studies.** Three credits. Selected topics, issues, and problems in the African and African American experience. Course emphasis on primary source materials, critical reading, and critical analysis. Topics will vary. **This course may not be repeated for additional credit hours in the minor.**

**4990 Independent Study in African American Studies.** Three credits. Allows the examination of a specific topic within the study of Africa, the Caribbean, or America. Student conducts research and confers regularly with the instructor. Work must draw upon theories and methods applicable to African American Studies. See the program director for guidelines. **This course may not be repeated for additional credit hours in the minor.**





# Aging Studies Program

**Ron Aday, Director**  
**Alumni Memorial Gym 123**

The interdisciplinary minor in Aging Studies is designed to meet the needs of students interested in pursuing a career working with or for the older adult population. The minor provides students the opportunity to examine the biological, psychological, sociological, and cultural perspectives which influence the status of the aging individual in society. Students who complete the Aging Studies minor will be exposed to the basic social policies and personal skills required for working effectively with older persons.

## Program Requirements

The minor requires the successful completion of 18 semester hours. All students are required to take A S 2600. The remaining 15 hours may be selected from various departmental courses that have been approved. The general requirement for an interdisciplinary minor is that students may not take more than six hours from a single department. To strengthen research or applied skills, students are encouraged to complete either A S 4800 or A S 4900.

### Interdisciplinary

A S	2600	Introduction to Aging Studies
A S	4030	Topics in Aging Studies
A S	4800	Special Projects
A S	4900	Practicum

### Departmental

CDFS	3300	Caring Across Generations
CDFS	4390	Families in Later Life
CDFS	4391	Aging Health and Development
N FS	4210	Nutrition in Aging
NURS	3370	Health and Gerontology
PSY	4610	Adult Psychology and Aging
PSY	4630	Death and Dying
REC	3380	Introduction to Recreation for Persons with a Disability
REC	4470	Leisure and Aging
SOC	4020	Sociology of Aging
S W	3170	Family Caregiving Across the Life Span
S W	4430	Social Work with the Terminally Ill
SOC	4040	Health Care Delivery Issues
CDIS	4800	Speech and Language Disorders in the Adult Population

## Courses in Aging Studies [A S]

- 2600 Introduction to Aging Studies.** Three credits. (Same as SOC 2600.) Basic concepts, overview of the field, illustrations of problems, and applications for an aging America.
- 4030 Topics in Aging Studies.** Three credits. (Same as SOC 4030.) An opportunity to integrate gerontological theory and research techniques with the practical problems of older persons.
- 4800 Special Projects.** One to six credits. (Same as SOC 4800.) Field experiences or reading courses through which special interests or needs of the student may be pursued under individual supervision. No more than three hours may be used in the major. Arrangements must be made with an instructor prior to registration.
- 4900 Practicum.** Three to six credits. Prerequisites: A S 2600 plus six hours of Aging Studies electives and senior standing. Student is placed in an agency setting on a contractual basis. Application must be made the preceding semester.





# Global Studies Program

**Douglas Heffington, Director**  
Kirksey Old Main 322D

The objectives of this interdisciplinary minor are to prepare students to make effective decisions as global citizens; induce and nurture global and international perspectives in students as they pursue various academic majors and career goals; and increase academic opportunities for undergraduate students to study, learn, and explore cultural and physical environments other than their own.

## Requirements

A minimum of eighteen credit hours are required for the minor depending on the academic emphasis chosen. Nine required hours include the three-hour introductory course G S 2010 (Introduction to Cross-Cultural Experiences) and the capstone course G S 4990 (Senior Seminar). Students will also be required to take a minimum of three hours of G S 3010 (Field Experience and Study Abroad), however up to 12 hours can be obtained. To complete the minor, a minimum of three courses will be selected from approved courses in the departments/programs listed with the advisement and approval of the program director. (See departments/programs below with courses meeting global, international, and cross-cultural focus of the minor). Students may select courses within the minor's areas of emphasis. The Global Studies minor areas of emphasis are globalization and culture, globalization and economics, or globalization and science.

## Courses in Global Studies [G S]

**2010 Introduction to Cross-Cultural Experiences.** Three credits. Required of all Global Studies minors. Establishes a broad-based foundation for understanding varying perspectives and values in a culture other than one's own. Differing global and international views on cultural and environmental issues—past, present, and future. The student's cultural background will be used for comparative purposes.

**3010 Field Experience and Study Abroad.** One to twelve credits. Three credit hours are required of all Global Studies minors. Prerequisite: G S 2010 or approval of program director. Credit given for study abroad and/or extended field experiences in another culture.

**4990 Senior Seminar.** Three credits. Required of all Global Studies minors. Capstone course requiring a project reflecting integration and demonstration of knowledge and skills used by all successful global citizens. Project determined by the student with advisement of the program director and may be completed on campus, abroad, or in the field.

Courses containing a global, international, and/or cross-cultural focus can be found within the departments/programs listed below. The student will select three courses from these with the approval of the Global Studies director.

### College of Basic and Applied Sciences

Aerospace  
Agribusiness and Agriscience  
Biology  
Chemistry  
Computer Science  
Mathematical Sciences  
Physics and Astronomy

### Jennings A. Jones College of Business

Accounting  
Business Education, Marketing Education, and Office Management  
Economics and Finance  
Management and Marketing

### College of Education and Behavioral Science

Criminal Justice Administration  
Health, Physical Education, Recreation, and Safety  
Human Sciences  
Psychology

### Liberal Arts

Art  
English  
Foreign Languages and Literatures  
Geosciences  
History  
Music  
Philosophy  
Political Science  
Social Work  
Sociology and Anthropology  
Speech and Theatre

### College of Mass Communication

Electronic Media Communication  
Journalism  
Recording Industry



# Women's Studies Program

Elyce Rae Helford, Director  
Peck Hall 109B

The Women's Studies minor is designed to inform and enlighten students about the lives and history of diverse women. Women's Studies courses are taught from a feminist perspective, which means they center on women's experience and emphasize social transformation to enhance and empower women's lives and are informed by theories of the social construction of gender. Students study such issues as work, health, leadership, and activism and issues of difference among women, including race, ethnicity, class, sexual orientation, nationality, age, and ability. Students also study obstacles to gender equality and justice. Courses emphasize an interactive learning process to challenge all students intellectually and emotionally. The minor promotes scholarly research about women and discussions of women's goals, relationships, attitudes, and achievements.

## Program Requirements

Students considering a Women's Studies minor should take WMST 2100 as part of the General Education requirements. To complete the minor, students must take 15 additional hours within an interdisciplinary structure. The minor requires 9 hours of program courses (WMST prefix), including WMST 2100 and WMST 4500 (junior/senior standing required), plus 9 hours from the courses listed below (program or departmental). Students may apply credit for no more than one course from any single major field (program courses excepted) without permission from the Women's Studies director.

### Program

WMST 2100 Introduction to Women's Studies  
(required for all minors)

*Students should choose WMST 2100 as part of the General Education requirement under Social/Behavioral Sciences.*

WMST 2500 Women's Leadership and Self Empowerment  
WMST 3000 Women's Leadership Conference Practicum A  
WMST 3001 Women's Leadership Conference Practicum B  
WMST 3500 Women in the Media  
WMST 4200 Symposium in Women's Studies (series)  
WMST 4500 Feminist Theory (required for all minors)  
WMST 4900 Independent Study

### Departmental

Not all sections of a given course will earn Women's Studies credit; see Women's Studies section of schedule book for each term's approved offerings.

ANTH 3750 Race, Class, and Gender  
ART 4910 Women in Art  
CDFS 4140 Violence in the Family  
CDFS 4340 The Contemporary Family  
CJA 3700 Women, Crime, and Justice Administration  
COMM 3225 Gender Communication  
ENGL 2020 Themes in Literature and Culture  
(approved Women's Studies topics only)  
ENGL 3060 Black Women as Writers  
ENGL 3070 Early Women Writers  
ENGL 3080 Women and Film  
ENGL 3090 Nineteenth-Century Women Writers  
ENGL 3100 Women Writers of the Twentieth Century  
ENGL 4720 Special Topics in Contemporary Literature  
(approved Women's Studies topics only)  
ENGL 4850 Selected Topics in Literature and Language  
(approved Women's Studies topics only)  
FREN 3130 Twentieth-Century Women Writers in French  
HIST 1020 Survey Western Civilization II  
(approved Women's Studies topics only)  
HIST 3030 Topics in African-American History  
(approved Women's Studies topics only)  
HIST 4770 Women in America to 1890  
HIST 4780 Women in America Since 1890  
HIST 4790 Women in Europe Since 1700  
HIST 4810 History of Women in the Third World  
HLTH 4390 Women's Health  
HUM 2610 Foreign Literature in Translation  
(approved Women's Studies topics only)  
HUM 3950 Women in the Middle Ages  
JOUR 4800 Seminar in Media Issues  
(approved Women's Studies topics only)  
PHIL 4800 Readings in Philosophy: Feminist Epistemology  
P S 3000 The Political Status of Women in the World  
P S 3010 Women and the Law  
PSY 4620 Psychology of Women  
SOC 3400 Gender and Society  
SOC 4030 Topics in Aging Studies  
(approved Women's Studies topics only)  
SOC 4150 Topics in Sociology  
(approved Women's Studies topics only)  
S W 3050 Women and Poverty  
THEA 3870 Women in Theatre

## Courses in Women's Studies [WMST]

**2100 Introduction to Women's Studies.** Three credits. Designed to inform and enlighten students about the lives and history of diverse women and the social construction of gender. Areas of study may include work, the family, health, sexuality, violence in women's lives, images of women, and feminist activism. **Required for all Women's Studies minors.**

**2500 Women's Leadership and Self Empowerment.** Three credits. An exploration of the concepts of leadership and followership through historical, contemporary, and personal perspectives as they apply to women. Provides an opportunity to examine, evaluate, and enhance personal leadership skills. WMST 2100 is recommended as a prerequisite but not required.

**3000 Women's Leadership Conference Practicum A.** Three credits. Prerequisites: WMST 2100 and permission of instructor. WMST 2500 recommended but not required. Theory and concepts of women's leadership through participation in major women's

conference. Provides an opportunity to engage in creative planning, decision-making and collaborative and experiential learning, and to assume significant responsibility for conference related to women's issues. No more than 6 hours of practicum and independent study may count toward the Women's Studies minor.

- 3001 Women's Leadership Conference Practicum B.** Three credits. Prerequisite: WMST 2100, 3000, and permission of instructor. WMST 2500 recommended but not required. Theory and concepts of women's leadership through participation in major women's conference. Provides an opportunity to engage in creative planning, decision-making and collaborative and experiential learning, and to assume significant responsibility for conference related to women's issues. No more than 6 hours of practicum and independent study may count toward the Women's Studies minor.
- 3050 Women and Poverty.** Three credits. (See S W 3050.) Prerequisite: WMST 2100 or S W 2570.
- 3500 Women in the Media.** Three credits. Prerequisites: WMST 2100 and 1000- and 2000-level English requirements or permission of instructor. Women in popular/mass media. Emphases include images of women in the media; women as producers and consumers of media; the intersections of gender, race, and class in the media; comparative global images and issues; and feminist approaches to media study.
- 3700 Women, Crime, and Justice Administration.** Three credits. (See CJA 3700.)
- 4201-Symposium in Women's Studies.** Three credits. Prerequisite: WMST 2100 or permission of instructor. Additional prerequisites may apply to individual courses within the series. A variable-content course highlighting contributions of women to various fields and disciplines and exploring special problems which may be encountered by women. Specific courses include:
- 4201 Women and Spirituality**
  - 4202 Lesbian Studies**
  - 4204 Women and Television**
  - 4205 Women and Science**
  - 4206 Women and the Holocaust**
  - 4207 Women and the Social Construction of Illness**
  - 4209 Desire in History and Literature**
  - 4210 Ecofeminism**
  - 4211 Asian-American Women's Literature and Culture**
  - 4212 Multicultural Women**
- 4500 Feminist Theory.** Three credits. Prerequisites: WMST 2100 and junior standing or permission of instructor. Major voices, texts, and ideas in the field of feminist theory from the early seventeenth century through the present within the contexts of a variety of critical discourses and emergent critical fields. Intended as a capstone for the minor. **Required for all Women's Studies minors.**
- 4900 Independent Study.** Three credits. Prerequisite: Permission of instructor. A variable-content course examining a topic within the study of women and gender not covered in depth in other Women's Studies courses. Student develops project, conducts research, and confers regularly with the instructor. Student must submit a formal project proposal to be approved by the Women's Studies Program's Independent Studies Committee at least one semester prior to enrolling for WMST 4900 (not including summer term). **May be taken for credit no more than twice.**

# University Honors College

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**John Paul Montgomery, Dean**  
**Paul W. Martin Sr. Honors Building 205**

The Honors College Program is designed with the needs of the superior student in mind. It is a University-wide program, leading to a degree with University Honors. Emphasis is on small classes, excellence of instruction, and interaction between students and professors.

The University Honors College is housed in the Paul W. Martin Sr. Honors Building, a new facility designed to provide a sense of community among high-achieving students.

Entering freshmen are eligible to participate in the Honors College if they have a minimum high school GPA of 3.00 and a 26 composite score on the ACT or have at least a 3.50 GPA and a 22 composite ACT score. Returning MTSU and transfer students must have a cumulative GPA of 3.00 to enroll in Honors classes.

Participation in the MTSU Honors College does not afford students an automatic waiver of out-of-state tuition.

## Graduation Requirements

To graduate from the College of University Honors, a student must

1. complete a minimum of 15 hours of lower-division Honors coursework;
2. complete a minimum of 6 hours of upper-division Honors coursework;
3. complete a minimum of 6 hours interdisciplinary coursework (additional hours of interdisciplinary course hours may substitute for upper-division hours);
4. complete the Honors Thesis Tutorial, U H 4900, for 1 hour credit;
5. complete the Honors Thesis, U H 4950, an independent research or creative project, for at least 3 hours credit;
6. have a minimum 3.25 GPA;
7. file an Intent to Graduate with University Honors form no later than the beginning of the semester of graduation.

## Recognition

Students who graduate with University Honors

1. receive a certificate upon completion of 15 hours lower-division Honors coursework;
2. have all Honors coursework designated on their transcripts;
3. have University Honors College graduate designated on the official transcript;
4. receive a certificate of graduation from the College of University Honors;
5. wear special academic regalia at graduation;
6. receive a beautiful University Honors College medallion.





## Departmental or School Honors Offerings

Honors sections are offered in the following schools or departments:

Accounting	History
Aerospace	HPERS
Biology	Journalism
BMOM	Management and Marketing
Chemistry	Mathematical Sciences
Computer Science	Music
Criminal Justice	Philosophy
Economics and Finance	Physics and Astronomy
Educational Leadership	Political Science
Electronic Media Communication	Psychology
Elementary and Special Education	Recording Industry
English	Social Work
Foreign Languages	Sociology and Anthropology
and Literatures	Speech and Theatre

Honors courses are listed each semester in the schedule book under University Honors and are cross-listed with departmental offerings. Honors students may receive Honors credit in non-Honors upper-division courses under special circumstances (see H-Option guidelines).

## The Honors Living and Learning Center

University Housing and Residential Life and the Honors College have created the Honors Living and Learning Center, a total learning environment that intersects the traditional classroom and the residential experience. Conveniently located next to Walker Library, Wood and Felder halls are connected by a spacious lobby, study room, Honors classroom, and computer lab. Honors students who enroll in at least one three-hour Honors course per semester qualify for residency with no additional cost.

## Courses in University Honors [U H]

- 3000 University Honors Lecture Series.** One credit. A series of weekly one-hour lectures designed to stimulate thought and broaden the student's knowledge in a variety of fields. May be repeated for up to 3 hours credit. Pass/Fail.
- 3001 Honors Service Learning Practicum.** One credit. Prerequisite: Permission of instructor. Opportunity to take part in service learning projects with community partners. Pass/Fail. (May be repeated once for a total of two credits.)
- 3200 Visiting Artist's Seminar.** One credit. Prerequisites: Sophomore standing and maintenance of a 3.00 GPA. An intensive workshop/seminar in one artistic form. The instructor will be a visiting artist whose course topic will depend on his or her field of experience.
- 3500 Junior Interdisciplinary Seminar.** Three credits. (May be taken more than one time as topics change.) Introduces students to the political, social, economic, scientific, artistic, and/or humanistic aspects of culture, using an interdisciplinary approach. See class schedule for current semester's topic.
- 4600 Senior Interdisciplinary Seminar.** Three credits. (May be taken more than once as topics change.) Examines humanistic ideas. Reading materials drawn from literature, history, philosophy, science, art, and/or any other areas relevant to the semester topic. See class schedule for current semester's topic.
- 4850 Study Abroad Tutorial.** One credit. Prerequisite: Permission of dean, Honors College. Guided tutorial with faculty assigned from the student's discipline; intended to enrich the study experience abroad and enable students to apply coursework completed abroad as upper-division Honors credit toward the requirements for graduation with University Honors. May be repeated for a maximum of three credits. Pass/Fail. May be repeated on subsequent trips for a maximum of three credits.
- 4900 Honors Thesis Tutorial.** One credit. Designed to guide students and their advisors in the completion of an Honors thesis. Specific objectives include choosing and narrowing an appropriate topic, collecting a working bibliography, preliminary reading, and writing a thesis proposal. Pass/Fail.
- 4950 Honors Independent Research.** Three to nine credits. (Only 3 credit hours may be counted toward the 31-hour requirement.) Interdisciplinary research for the advanced Honors student. Research proposals must be approved by the Honors Council the semester prior to the study.

# McNair Scholars Program

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**L. Diane Miller, Director**  
**Linda D. Brown, Program Coordinator**  
**Midgett Building 103**

The MTSU McNair Scholars Program is a post-baccalaureate achievement program. The program is designed to help increase the diversity of college and university faculties; to increase the number of financially disadvantaged, first-generation, or under-represented college students who pursue and complete the doctoral degree; and to prepare promising students for graduate studies leading to the obtainment of a doctoral degree. The program is named in honor of Ronald E. McNair, Challenger astronaut, 1978–1986.

The Ronald E. McNair post-baccalaureate program is a Federal TRIO program that is entirely funded by the U.S. Department of Education. Current year funding is \$220,427.

More information can be obtained from the  
McNair Scholars Program  
P.O. Box 301  
Middle Tennessee State University  
Murfreesboro, TN 37132

## Course in Professional Seminar [PRSE]

**4900 Professional Seminar.** One credit. Prerequisites: Sixty credits and consent of instructor. A professional development seminar for students who want to learn about their profession and prepare for graduate school. May be repeated for up to six credits total.



# Developmental Studies Program

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**Marva Lucas, Interim Chair**  
**Peck Hall 202**

**Alley, Azarbarzin, Badley, Belton, Clark, Conway, Dawson, Dooley, Fisher, Flanigan, Harrison, Henslee, Higgs, Hopper, Hunt, McCormick, McDaniel, Otto, Otts, Raines, Ross, Rouse, Sundeen, Tyner, Williams**

The Developmental Studies Program is designed to serve the needs of students who are underprepared to enter the regular college curriculum. The purpose of the program is to assist students in achieving a level of academic competence that will enable them to work successfully in college-level courses.

## Academic Assessment Placement Testing

All entering degree-seeking students less than 21 years of age will be assessed for Developmental Studies Program (DSP) placement initially according to valid ACT/SAT scores. Permissible scores are less than three years old. Students with ACT subscores that are 18 or lower in the areas of reading, English, or math are automatically placed in the program in the appropriate area. Students with mathematics or verbal SAT scores of 450 or less are placed in the appropriate areas, and students with SAT composite scores of 890 or below are placed into the reading area.

Applicants who will be 21 years of age or older at the time of admission are required to undergo assessment for each area or may elect to provide ACT/SAT scores that have been taken within three years prior to the first day of the first term of enrollment. Additionally, transfer students who have not earned college-level, algebra-based math or English credits must undergo departmental assessment in appropriate areas.

Students admitted as Adult Special who have not completed the first college-level course in English or algebra-based mathematics must undergo assessment in the appropriate subject area and must complete courses indicated by test placement prior to enrolling in the respective college-level English or mathematics course. Students may not enroll in any college-level course that has prerequisites of developmental math and/or writing.

Students who, on the basis of the ACT score(s), are not required by the institution to undergo assessment but who later show deficiency in English, mathematics, or reading must undergo assessment and placement. Such students shall not be allowed to continue in a college-level course requiring subject area competencies as prerequisites and must instead enroll in the appropriate Developmental Studies course.

Students who consider themselves inadequately prepared to pursue a college-level course may request assessment to determine whether they need DSP English, mathematics, or reading courses. They must complete the appropriate subject area pretest and must be determined to need remediation before placement. The decision to permit the student to enroll in any DSP course is an institutional prerogative with placement decision made by the program director.

Students admitted with high school deficiencies in algebra or English may remove these deficiencies by (1) scoring at college course placement levels and thereby demonstrating competency or (2) completing DSP requirements.

The assessment exam is administered on multiple dates throughout the year. On the basis of their test scores, students are placed in basic, developmental, or college-level courses.

Learning Strategies course placement is required for students who are placed in two subject areas. Beyond this mandatory placement, students with at least one developmental studies course have the option to elect placement in Learning Strategies. Course enrollment is limited to students in these categories.

## Grades

In order to pass basic and developmental courses, students must earn a grade of **C** or better. The grade of **D** is not assigned. Basic and developmental courses carry institutional credit which does not count toward the hours required for an undergraduate degree. Developmental course grades are not used in the computation of the 2.00 GPA required for a bachelor's degree nor for the required GPA for admission to teacher education. Developmental course grades are used to compute a student's overall grade point average.

## Enrollment

Students admitted into the Developmental Studies Program must be continuously enrolled in the correct course(s) until they complete the program. Those failing developmental studies courses must retake the courses in the next semester they enroll. They may not drop a developmental course without approval of the chair of the Developmental Studies Department. Students are expected to attend all class sessions. More than two absences in a two-day-a-week class or three absences in a three-day-a-week or four-day-a-week class ordinarily will result in failure.

Students placed in four basic and/or developmental classes per semester may take only one other course—either an ROTC or PHED activity course. They may not take any college-level course which requires skill in any area in which they show a deficiency as determined by the placement test. Students are urged to consult with one of the Academic Support Center advisors for details.

## Support Services

A number of support services provide tutoring to assist students in achieving the objectives of their courses. These are (1) the Developmental Writing Lab, (2) the Developmental Reading Lab, and (3) the Developmental Mathematics Lab. The tutoring provided in the labs reinforces the curriculum and the objectives of the basic and developmental courses.

Each student in Developmental Studies is assigned an advisor who assists with scheduling developmental classes and academic advising. Students should check with the Academic Support Center in 324 KUC (615-898-2339) immediately upon arrival on campus to determine the name and office number of the assigned advisor. Students should make appointments to meet with their advisors prior to registration. Students should see their advisors at least twice during the semester. Students on probation must see their advisors at least four times a semester or once a month.

## Program: Basic and Developmental

The Developmental Studies Program offers courses in both basic and/or developmental studies in four areas: writing skills, reading skills, mathematics skills, and learning strategies. Course offerings in basic and developmental studies are listed each semester in the class schedule book and carry the designations **DSPW**, **DSPM**, **DSPR**, or **DSPS**. In addition to the usual daytime offerings, basic and developmental courses are offered at night and during the summer.

More detailed specifications for the Developmental Studies Program may be found in the Tennessee Board of Regents Guideline No. A-100.

## Courses in Basic Studies\*

**DSPW 0700 Basic Writing.** Three credits. Prerequisite: Placement pretesting. Intensive practice in paragraph and sentence construction; intensive review of basics of spelling, grammar, and punctuation. Skills refined through individualized laboratory work.

**DSPM 0700 Basic Mathematics.** Three credits. Prerequisite: Placement pretesting. Intensive study of all mathematical operations with whole numbers, decimals and fractions, percent and equivalency, units of measure, word problems, geometry, graphs, elementary probability, and statistics.

**DSPR 0700 Basic Reading.** Three credits. Prerequisite: Placement pretesting. Intensive practice in identifying main ideas, sequencing, locating facts, using contextual clues, drawing conclusions, and making inferences.

*\*NOTE: All DSP 0700 courses are taught by Motlow State Community College faculty on the MTSU campus.*



## Courses in Developmental Studies

**DSPW 0800 Developmental Writing.** Three credits. Prerequisite: Placement pretesting. Intensive practice in writing brief essays for a variety of rhetorical purposes and audiences. Emphasis on strategies for prewriting, writing, and rewriting. Also intensive review of sentence and paragraph constructions and basic language arts.

**DSPM 0800 Elementary Algebra.** Three credits. Prerequisite: Placement pretesting. Intensive study of real numbers, algebraic expressions, linear equations and inequalities, graphing and linear functions, and operations with polynomials.

**DSPM 0850 Intermediate Algebra.** Three credits. Prerequisite: Placement pretesting. Intensive study of factoring of polynomials, rational equations and functions, systems of equations with applications, radical functions, and quadratic functions and equations.

**DSPR 0800 Developmental Reading.** Three credits. Prerequisite: Placement pretesting. Intensive practice in developing reading skills and techniques for improving vocabulary and comprehension. Critical thinking, methods of understanding and retaining textbook material, and development of reading fluency emphasized.

**DSPS 0800 Learning Strategies.** Three credits. Intensive study of brain-based learning. Particular attention given to time management, goal setting, critical thinking, note taking, test taking, and use of college resources. Overall goal is to give students the tools they need to be independent learners.

**MATH 0990 Basic Geometry.** Three credits. Plane and solid geometry including measurement formulas, properties of plane figures, proof techniques, symmetry, congruency, and construction. Open only to those lacking required high school geometry course for unconditional admission to University.

## Courses in Academic Success Program [ACA]

**ACA 3000 Theory and Practice of College Peer Tutoring.** One credit. Prerequisite: Consent of department. Provides training in the knowledge and fundamental skills useful to tutors in various academic disciplines. Pass/Fail.

# Cooperative Education

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**Wayne Rollins, Director**  
**Keathley University Center 326-0**

In the Cooperative Education Program, the student performs a portion of his/her university education program as an employee in business, industry, government, or a service organization, where the work is directly related to his/her academic major. The program is based upon the philosophy that gainful employment in the student's chosen field before graduation affords a number of opportunities not otherwise available: to apply methods and principles learned in the classroom to actual work situations and problems; to enhance academic motivation; to help defray the costs of education; to assist in career selection; to improve job preparation and accelerate professional maturity; and to develop better opportunities for employment upon graduation.

## Requirements

### To enroll in the program, a student must

1. have an MTSU cumulative grade point average of 2.50 or better (undergraduate);
2. have completed at least two semesters of college work;
3. be a degree-seeking student at MTSU in good standing (not on probation or under suspension);
4. be willing to work a minimum of three work periods;
5. file an application with the director of Cooperative Education one semester prior to the semester in which the first work experience starts;
6. obtain the approval of the department Cooperative Education coordinator and the director of Cooperative Education.

Students should consult departmental listings for course number and credit hours. If the student's major department has no listing for cooperative education, he/she should refer to the cooperative education courses listed below.

Further information may be obtained by contacting the  
 Director, Office of Cooperative Education  
 Box 31  
 Middle Tennessee State University  
 Murfreesboro, Tennessee 37132

## Courses in Cooperative Education [COED]

**2930, 2940, 3970, 3980 Cooperative Education.** Three credits. Experiential learning that occurs in real employment situations. Must be taken in sequence or approved by the director of Cooperative Education. Graded on a pass/fail basis.

# University Courses

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University courses are offered to address specific learning goals and are taught by faculty throughout the various colleges of the University. University courses include:

## University Seminar 1010

MTSU offers a special course to help freshman students develop tools needed for success. This seminar course helps new students appreciate the value of a higher education, learn about the numerous campus resources available to them, clarify their career goals, and refine the academic skills required of the successful college student.

UNIV Seminar 1010 can be taken as an elective and counted toward the 120-semester-hour minimum graduation requirement. Undeclared freshmen with 0-24 credit hours will be required to enroll in University Seminar 1010. Times, locations, and instructors for the seminar can be found in the schedule book issued for each semester.

More information can be obtained from the  
Office of the Executive Vice President and Provost  
111 Cope Administration Building  
Middle Tennessee State University  
Murfreesboro, TN 37132

## Courses in University Seminar 1010 [UNIV]

**1010 University Seminar 1010.** Three credits. Provides information to ease the transition to college during the first semester on campus. Helps student develop strategies for a successful college career.

## Service Learning Courses

Service learning courses give students opportunities to participate in project-based, interactive partnerships with community entities and to gain valuable experience as mentors and leaders in situations where their presence and efforts can fill a community need. The Service Learning Practicum (SLP) allows MTSU students to enrich their classroom experiences by taking part in projects designed to promote community service and self-discovery. Such enrichment ultimately enables participating students to function as leaders and citizens with experience integrating civic awareness and engagement into their academic and professional pursuits.

Students can take UNIV 3001 as an elective that counts toward the 120-semester-hour degree requirement. The subject of the course varies according to the instructor, but all projects will promote community service and discovery learning.

## Courses in Service Learning 3001 [UNIV]

**3001 Service Learning Practicum.** One credit. Prerequisites: Completion of 15 hours of academic coursework and permission of instructor (specific departmental prerequisites may apply). Provides students an opportunity to take part in service learning projects with community partners. Pass/Fail. (May be repeated once for a total of two credits.)



# Air Force Reserve Officers' Training Corps (AFROTC)

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MTSU students may participate in the Air Force Reserve Officer Training Corps (AFROTC) at Detachment 790 on the campus of Tennessee State University. AFROTC provides pre-commissioning training to college students (male and female) who desire to serve as officers in the U.S. Air Force (USAF).

High school students may also apply for the AFROTC College Scholarship Program online at [www.AFROTC.com](http://www.AFROTC.com). The application deadline is typically December 1 of the senior year. Detailed eligibility requirements are available on the AFROTC Web site.

As AFROTC cadets, the majority of students will earn scholarships that may cover all or a significant portion of tuition costs. In addition, cadets earn a monthly stipend of up to \$400 and up to \$510 per academic year to pay for textbooks.

Cadets are required to attend AFROTC classes in uniform one day per week. One summer, typically between the sophomore and junior year, cadets must attend a four-week military training session. The combination of USAF military education, training, and college-level curriculum gives cadets a broad-based knowledge of management, leadership, and technical skills.

The minimum eligibility requirements are as follows: U.S. citizen, thirty years old or younger on December 31 of the year of graduation (exception—prior enlisted), meet USAF weight standards, pass a physical fitness test, have a 2.5+ cumulative college GPA, and pass the Air Force Officer Qualifying Test (a USAF-unique academic aptitude test).

Although the USAF will accept students from any accredited academic major, there is a critical need for engineers (all disciplines) and meteorologists. Upon graduation, cadets will earn USAF commissions as second lieutenants and must serve a minimum of four years on active duty.

For more information, visit [www.AFROTC.com](http://www.AFROTC.com) or telephone the Detachment 790 Unit Admissions Officer at (615) 963-5931. Also visit the Detachment 790 Web site at [www.tnstate.edu/rotc](http://www.tnstate.edu/rotc).



# COLLEGE OF BASIC AND APPLIED SCIENCES

Thomas Cheatham, Dean, Jones Hall 159

Pamela Holder, Interim Associate Dean for  
Research and Outreach, Jones Hall 159

Marlene Lawson, Assistant to the Dean, Jones Hall 161

Karen Case, Program Coordinator and Academic Advisor,  
Jones Hall 119

**Aerospace • Agribusiness and Agriscience • Biology •  
Chemistry • Computer Science • Engineering Technology  
and Industrial Studies • Mathematical Sciences • Military  
Science • Nursing • Physics and Astronomy**

Within an environment that values excellent teaching and fosters initiatives in research and public service, the mission of the College of Basic and Applied Sciences at Middle Tennessee State University is to

1. prepare individuals for successful careers in scientific and technical fields in industry, teaching, government, and health services;
2. provide general education through exposure and exploration of natural sciences, applied sciences, and mathematics;
3. provide “hands-on” experience with state-of-the-art materials and equipment;
4. promote the development and practice of critical thought and expression;
5. develop basic knowledge and promote attitudinal skills and other abilities needed for further graduate or professional study.

Environmental Science and Technology is an interdisciplinary major and minor offered by several departments within the college. A complete description of the program is given under the Department of Engineering Technology and Industrial Studies.

Following are the curricula, courses, and specific requirements for majors and minors in each department or school.



# Department of Aerospace

**Paul A. Craig, Chair**

**Business and Aerospace Building 211C**

**Allen, Bertrand, Crowder, Dornan, Dorris, Ferrara, Gossett, Hill, Jones, Phillips, Zlotky**

Programs in the Department of Aerospace lead to the Bachelor of Science degree with a major in Aerospace and concentrations in Administration, Maintenance Management, Professional Pilot, Technology, and Flight Dispatch and Scheduling. A minor in Aerospace is also available. All of these programs are designed to prepare students for professional positions in the air transportation or aerospace manufacturing industry or in operations supporting allied areas.

## Aerospace Core Requirement

All Aerospace majors will take AERO 1010, 1020, 3020, 3030, and 4040.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

## Major in Aerospace

### Concentration: Administration

The Administration concentration offers instruction designed for students who are interested in careers in the various aspects of aerospace administration and management. Selected General Education and minor courses are interwoven with aerospace courses to provide students with a foundation for such careers. This concentration requires the completion of

1. 39 semester hours in aerospace courses as listed below;
2. a minor as recommended by the faculty advisor and approved by the department chair and dean;
3. other specific required courses as listed below.

#### Recommended Sequence and Curriculum Requirements

FRESHMAN		SOPHOMORE	
AERO 1010, 1020	6	AERO 2010	3
ENGL 1010, 1020 (Comm)	6	AERO 2140 or 2230	3
MATH 1710 (Math)	3	ENGL 2020 or 2030 or	
HIST 2010, 2020, or 2030	6	HUM 2610 (Hum/FA)	3
COMM 2200 (Comm)	3	Humanities and/or Fine Arts	3
Humanities and/or Fine Arts	3	Social/Behavioral Sciences	
TRNS 1610	3	(2 prefixes)	6
	<b>30</b>	CHEM 1010 (Nat Sci)	4
		PHYS 2010/2011 (Nat Sci)	4
		INFS 2200 or 3100	3
		MATH 1810	3
			<b>32</b>

### JUNIOR

AERO 3020, 3030	6	AERO 4040, 4100, 4110,	
MGMT 3610	3	4150	12
ACTG 3000	3	TRNS 3630	3
MKT 3820	3	AERO or TRNS elective	3
BMOM 3510 or ENGL 3520	3	Minor	9
Electives	4		<b>27</b>
Minor	9		

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### SENIOR

### Concentration: Flight Dispatch and Scheduling

The Flight Dispatch and Scheduling concentration offers instruction designed to meet the aviation industry's needs by preparing professional, corporate, and airline flight dispatchers and schedulers. Selected General Education and minor courses are interwoven with required aerospace courses to provide students with a foundation for careers in this area. This concentration requires the completion of

1. 40 hours of aerospace courses as listed below;
2. a minor of 18 semester hours to be selected from one of the following: Geography/Geology, Computer Science, Information Systems, or other science or business-related field;
3. other specific required courses as listed below.

#### Recommended Sequence and Curriculum Requirements

FRESHMAN		SOPHOMORE	
AERO 1010, 1020, 2010	9	AERO 3210	3
ENGL 1010, 1020 (Comm)	6	HIST 2010, 2020, or 2030	6
CHEM 1010 (Nat Sci)	4	ENGL 2020 or 2030 or	
PHYS 2010/2011 (Nat Sci)	4	HUM 2610 (Hum/FA)	3
MATH 1710 (Math)	3	Humanities and/or	
COMM 2200 (Comm)	3	Fine Arts (2 prefixes)	6
PSY 2180	3	Social/Behavioral Sciences	3
	<b>32</b>	MATH 1810	3
		GEOG 2000 or PSY 1410	
		(Soc/Beh Sci)	3
		CSCI 1000	1
		Elective	3
			<b>31</b>

### JUNIOR

AERO 3020, 3030	6	AERO 3230, 4040, 4580,	
AERO 3080, 3170, 4530	9	4590	12
Electives	6	ECON 4510 or MGMT 4510	3
Minor	9	GEOG 3410 or GEOL 4050	3
	<b>30</b>	Minor	9

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### Concentration: Maintenance Management

The Maintenance Management concentration offers instruction designed for students who are interested in careers as skilled technicians or managers in aircraft manufacturing, aircraft repair, engine overhaul, or space vehicle maintenance. The fundamental skills needed in aerospace vehicle repair and maintenance are stressed together with management skills for such careers. MTSU is an approved Federal Aviation Administration (FAA) FAR Part 147 maintenance technician school for airframe and powerplant mechanics. This concentration requires the completion of

1. 45 hours of aerospace courses as listed below;
2. a minor that complements the major recommended by the faculty advisor and approved by the department chair and dean;

3. other specific required courses as listed below; and
4. FAA Airframe and Powerplant Certification prior to graduation.

**Recommended Sequence and Curriculum Requirements**

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
AERO 1010, 1020	6	AERO 2331, 2371, 2342	9
AERO 1340, 1380, 2381	9	ENGL 2020 or 2030 or	
ENGL 1010, 1020 (Comm)	6	HUM 2610 (Hum/FA)	3
MATH 1710 (Math)	3	Humanities and/or Fine Arts	3
MATH 1810	3	HIST 2010, 2020, or 2030	6
COMM 2200 (Comm)	3	CHEM 1010 (Nat Sci)	4
Humanities and/or Fine Arts	3	PHYS 2010/2011 (Nat Sci)	4
Social/Behavioral Sciences	3	CSCI 1000	1
	<b>36</b>	ETIS 1310	4
			<b>34</b>

<b>JUNIOR</b>		<b>SENIOR</b>	
AERO 3020, 3030	6	AERO 3362, 3371, 4040	9
AERO 3301, 3322, 3392	9	AERO 4310, 4332, 4342	9
AERO 4301, 4311, 4312	9	AERO 4371, 4381, 4392	9
E T 3600 or 3610	4	MGMT 4510	3
MGMT 3610 or E T 3910	3		<b>30</b>
Social/Behavioral Sciences	3		
	<b>34</b>		

**NOTE:** Additional aerospace maintenance courses are required if FAA certification is sought. Students enrolled in the Airframe and Powerplant Technician's Program are required to pass a comprehensive qualification examination prior to receiving authorization to take the FAA examination or prior to receiving a Certificate of Completion from MTSU.

**Concentration: Professional Pilot**

In addition to all academic requirements, this concentration requires students to obtain pilot certificates at the MTSU Flight School. All required flight training for this concentration is conducted in flight labs. Admission to the University does not guarantee enrollment in a flight lab. To enroll in a flight lab, students must submit a Flight Lab Request Form for each and every semester. The deadline to submit a Flight Lab Request Form for the summer or fall semester is March 1 each year. The deadline to submit a Flight Lab Request Form for the spring semester is October 1 each year. Enrollment in flight labs is limited and selection is made from eligible candidates who are best qualified. Most incoming freshmen will start flight training in their second semester at MTSU. To become eligible for a flight lab, candidates must meet the following minimum standards:

1. have a college cumulative grade point average of 2.50 (entering freshman will have their ACT scores ranked for admission into the flight lab during their first semester);
2. have a current Second Class FAA medical certificate;
3. be in good standing within the department and University (if a transfer, candidate cannot be on probation in any form);
4. have no physical disability that would prohibit completion of the course requirements.

The Professional Pilot concentration requires the completion of

1. 48 semester hours in aerospace courses as listed below;
2. a minor that complements the Professional Pilot major, recommended by the faculty advisor and approved by the department chair and dean;
3. other specific required courses as listed below; and

4. the Instrument Rating–Airplane, the Commercial Pilot Certificate, and the Commercial Multiengine Rating with instrument privileges all at the MTSU Flight School and in the flight labs.

Retention in the program is based on maintaining a cumulative GPA of 2.50 or better and making consistent and satisfactory progress in flight training. Violation of any MTSU safety practice and procedure or any FAA regulations will result in immediate termination from the flight program.

Students admitted to the Professional Pilot program must receive all required flight training beyond the Private Pilot Certificate at the MTSU Flight School. Credit for flight time, including cross-country flight time obtained by the student after becoming a private pilot, is very limited and is determined by FAA and MTSU regulations. Transfer students who come to MTSU already holding the Instrument Rating may be admitted; however, they must complete the Commercial Pilot Certificate, the Maintenance Rating, and Flight Instructor Certificate at the MTSU Flight School. Students entering MTSU who already hold the Commercial Pilot Certificate are not eligible for the Professional Pilot concentration.

**Recommended Sequence and Curriculum Requirements**

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
AERO 1010, 1020, 2010	9	AERO 3202, 3203	2
AERO 2220 or 2230	3	AERO 3020, 3210	6
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
COMM 2200 (Comm)	6	HUM 2610 (Hum/FA)	3
MATH 1710 (Math)	3	Humanities and/or	
CHEM 1010 (Nat Sci)	4	Fine Arts (2 prefixes)	6
PHYS 2010/2011 (Nat Sci)	4	Social/Behavioral Sciences	
	<b>32</b>	(2 prefixes)	6
		HIST 2010, 2020, or 2030	6
		MATH 1810	3
			<b>32</b>

<b>JUNIOR</b>		<b>SENIOR</b>	
AERO 3030, 3204, 3261	5	AERO 4100 or 4110	3
AERO 3215, 3260, 3440	9	AERO 4040, 4130, 4310,	
CSCI 1150 or		4440	12
INFS 2200 or 3100	3	MGMT 3610	3
BMOM 3510 or ENGL 3520	3	Minor	9
Minor	9		<b>27</b>
	<b>29</b>		

**Concentration: Technology**

The Technology concentration is designed for students interested in technical careers in aerospace and as preparation for those who seek more advanced study at the graduate level. Students will receive a strong background in mathematics, the sciences, industrial studies, and the more technical courses in aerospace. This concentration requires the completion of

1. 36 semester hours of aerospace courses as listed below;
2. minors in Mathematics and Engineering Technology and Industrial Studies;
3. two semesters of general chemistry and two semesters of calculus-based physics;
4. other specific required courses as listed below.

**Recommended Sequence and Curriculum Requirements**

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
AERO 1010, 1020, 1380	9	ENGL 2020 or 2030 or	
ENGL 1010, 1020 (Comm)	6	HUM 2610 (Hum/FA)	3
COMM 2200 (Comm)	3	Humanities and/or	
HIST 2010, 2020, or 2030	6	Fine Arts (2 prefixes)	6
MATH 1710 (Math)	3	Social/Behavioral Sciences	
MATH 1810	3	(2 prefixes)	6
	<b>30</b>	CHEM 1010 (Nat Sci)	4
		PHYS 2010/2011 (Nat Sci)	4
		MATH 1820, 3020	6
		CSCI 1000	1
		Elective	3
			<b>33</b>
<b>JUNIOR</b>		<b>SENIOR</b>	
AERO 3020, 3030	6	AERO 2381 or 3301	3
AERO 3440, 4170	6	AERO 4301 or 4310	3
MATH 3120	3	AERO 4071 or 4160	3
MATH 2010 or 2050	3	AERO 4100, 4110, or 4150	3
E T 1840, 2310	8	AERO 4040, 4440	6
E T 3210, 3830	6	E T 3860	3
	<b>32</b>	E T 3950 or 4230	4
			<b>25</b>

**Minor in Aerospace**

A minimum of 18 semester hours is required for the minor. The minor may emphasize administrative, piloting, or technical subject matter. Courses are chosen with the approval of the student's minor advisor.

**Accreditation**

In addition to regional accreditation, the following programs are formally approved by the Council on Aviation Accreditation: Aerospace Administration, Aerospace Maintenance Management, Aerospace Technology, and Professional Pilot.

**Academic Common Market**

Since the Aerospace Department is a participant in the Academic Common Market, students from selected southern states may enroll at MTSU on an **in-state** fee basis. Further information is available from the department or Admissions Office.

**Professional Relationships**

MTSU holds membership in the Aviation Technical Education Council, the Council on Aviation Accreditation, the National Business Aircraft Association, the National Intercollegiate Flying Association, and the University Aviation Association.

**Advanced Standing**

Specific aerospace course credit may be granted to holders of FAA Airframe/Powerplant Certificates. Such aeronautical credential-based credit awards are applicable to MTSU enrollments only and will not transfer to other institutions.

**Maintenance Management Advanced Standing**

Only students pursuing the Maintenance Management concentration may receive advanced standing for certificates held.

Students seeking advanced standing on the basis of possession of the Airframe or Powerplant (or both) Technician Certificates must produce documentation to substantiate prior training to the dean of the College of Basic and Applied Sciences through the chair of the Aerospace Department. In addition, each applicant will be required to pass an oral or written examination covering the course content of each course for which advanced standing is requested. Twenty-four semester hours will be the maximum credit allowed for both certificates.

Holders of an FAA Airframe Technician Certificate may be granted credit for the following courses:

AERO 1020	Theory of Flight
AERO 1380	Aerospace Maintenance Shop Practices
AERO 3301	Sheet Metal Structures
AERO 4310	Aerospace Vehicle Systems

Holders of an FAA Powerplant Technician Certificate may be granted credit for the following courses:

AERO 3030	Propulsion Fundamentals
AERO 3392	Reciprocating Engine Maintenance Repair
AERO 3322	Aerospace Reciprocating Engine Overhaul
AERO 3362	Advanced Aerospace Engine Systems Maintenance and Repair

Holders of FAA Repairmen Certificates and former military mechanics who are not holders of an FAA Maintenance Technician Certificate may not be granted specific course credit for their experiences.

**Air Traffic Control Training**

MTSU is a participant in the FAA Collegiate Training Initiative (CTI). Students who successfully complete this program are recommended to attend the FAA's Air Traffic Controller Training Course in Oklahoma City.

Students wishing to enroll in the CTI Program must

1. be at least 16 years of age and possess a high school diploma;
2. hold United States citizenship;
3. obtain employment as an FAA Air Traffic Controller by age 31;
4. pass an FAA physical examination (to include hearing and vision tests and drug screening);
5. pass a background security suitability examination; and
6. complete the following aerospace courses:

AERO 1010	Introduction to Aerospace
AERO 1020	Theory of Flight
AERO 1230	Aviation Laws and Regulations
AERO 2010	Aviation Weather
AERO 2220	Navigation
AERO 3210	Instrumental Flight Fundamentals
AERO 3230	Crew Resource Management
AERO 4530	Air Traffic Control
AERO 4560	Advanced Air Traffic Control



**NOTE:** Additional requirements and disqualifying conditions pertain to enrollment in this program. For further information, contact the Aerospace Department at (615) 898-2788.

## Aircraft Maintenance Training

The Aerospace Department offers maintenance training which will qualify students for the FAA's Airframe and Powerplant Mechanics Certificate. The following courses are required for this qualification.

AERO	1020	Theory of Flight
AERO	1340	Introduction to Aerospace Maintenance
AERO	1380	Aerospace Maintenance Shop Practices
AERO	2331	Airframe Inspection
AERO	2342	Powerplant Inspection
AERO	2371	Aircraft Welding
AERO	2381	Non-Metallic Structures: Dope, Fabric, and Finishing
AERO	3030	Propulsion Fundamentals
AERO	3392	Reciprocating Engine Maintenance Repair
AERO	3301	Sheet Metal Structures
AERO	4311	Aerospace Accessory Systems Maintenance and Repair
AERO	3322	Aerospace Reciprocating Engine Overhaul
AERO	4332	Reciprocating Engine Troubleshooting
AERO	3371	Aircraft Finishing and Non-Destructive Inspection
AERO	3020	Aerospace Materials
AERO	4310	Aerospace Vehicle Systems
AERO	3362	Advanced Aerospace Engine Systems Maintenance and Repair
AERO	4371	Advanced Aerospace Vehicle Systems Overhaul
AERO	4381	Advanced Aerospace Accessory Systems Maintenance and Repair
AERO	4392	Aerospace Turbine Engine Maintenance and Overhaul
AERO	4301	Advanced Aerospace Vehicle Structural Repair
AERO	4312	Turbine Engine Systems
AERO	4342	Turbine Engine Inspection and Troubleshooting
ET	3610	Introduction to Electricity and Electronics
ETIS	1310	Basic Technical Drawing and Sketching
MATH	1710	College Algebra
OR		
MATH	1730	Algebra and Trigonometry
PHYS	2010	Non-Calculus-Based Physics I
PHYS	2011	Physics Problems Laboratory I

## Flight Training

The Aerospace Department offers flight training to MTSU students pursuing the Professional Pilot concentration. All training will be conducted in University-owned and maintained aircraft by a select group of flight instructors screened and trained for their positions by MTSU. All flights will be conducted from the Murfreesboro Municipal Airport. Flight fees will be paid directly to MTSU, and students must maintain a positive balance in their training accounts at all times. Financial aid support materials may be obtained from the faculty coordinator in the Aerospace Department.

**NOTE:** Students interested in military flying careers should contact their local Armed Forces recruiting officer or MTSU's Reserve Officer Training Corps (ROTC) program representatives. Air Force ROTC program information can be obtained by calling (615) 963-5931. For information regarding the Army ROTC Program, call (615) 898-2470. Please see page 95.

## Student Organizations

Recognized student organizations in aerospace are Alpha Eta Rho, international aviation fraternity (co-ed); Flying Raiders, intercollegiate competitive flight team; AERO Maintenance Club of MTSU, aircraft maintenance organization; Future Airport Executives (FAE), student chapter of the American Association of Airport Executives; and Women in Aviation, student chapter of Women in Aviation International.

## Courses in Aerospace [AERO]

- 1010 Introduction to Aerospace.** Three credits. History of aerospace, opportunities in the field, fundamentals of flight, navigation, meteorology, and Federal Aviation Regulations. Open to all students desiring a general and practical knowledge of aviation.
- 1020 Theory of Flight.** Three credits. Basic aerodynamics with emphasis on lift, weight, thrust, and drag forces acting upon an airplane in flight. Five-hour flight demonstration required at student expense. Fee required.
- 1230 Aviation Laws and Regulations.** Three credits. Those portions of Titles 14 and 49 of the U.S. Code of Federal Regulations concerning airman certification and aircraft operations.
- 1340 Introduction to Aerospace Maintenance.** Three credits. Organization and operation of aircraft maintenance activities. Federal regulations and aviation maintenance law. Maintenance management function in practical settings.
- 1380 Aerospace Maintenance Shop Practices.** Three credits. Use of common tools, measuring devices, and special aircraft tools. Shop layout for aircraft maintenance management.
- 2010 Aviation Weather.** Three credits. Atmosphere, measurement of meteorological elements, and effects of these on air operations.
- 2140 Civil Aviation.** Three credits. Historical development and present status of air transportation facilities; state and federal regulations; legal characteristics of aerospace industry; problems and services of commercial air transportation.
- 2201 Private Pilot Flight Laboratory.** One credit. Prerequisite: Simultaneous completion of AERO 2230. Flight instruction leading to the FAA Private Pilot Certificate. The certificate must be completed during this course. Fee required.
- 2220 Navigation.** Three credits. The principles of pilotage, dead reckoning, and radio/electronic methods of navigation as applied to cross-country flight planning.
- 2230 Private Pilot Fundamentals.** Three credits. Aeronautical subject matter pertaining to the Private Pilot Certificate.
- 2331 Airframe Inspection.** Three credits. Requirements, techniques, and procedures.
- 2342 Powerplant Inspection.** Three credits. Requirements, techniques, and procedures.
- 2371 Aircraft Welding.** Three credits. Various types of aircraft welding techniques and procedures.
- 2381 Non-Metallic Structures: Dope, Fabric, and Finishing.** Three credits. Aircraft fabric covering and finishing.

- 2930 Cooperative Education.** Three credits. Provides students with opportunities for on-the-job experiences related to academic major. Consult department. Pass/Fail.
- 2940 Cooperative Education.** Three credits. Provides students with opportunities for on-the-job experiences related to academic major. Consult department. Pass/Fail.
- 3020 Aerospace Materials.** Three credits. Explores materials used in aerospace applications throughout their development from the standpoint of their properties, economic impact, and future possibilities. The need for new materials to fill current requirements included.
- 3030 Propulsion Fundamentals.** Three credits. Principles of operations, major components, and important features of typical propulsion systems used in aircraft and missiles, from reciprocating to reaction.
- 3050 Women in Aviation.** Three credits. Explores the many roles of women in this nontraditional field. Research on the history of women in aviation and their political and social impact on aviation, industry, and the country.
- 3080 Aviation Weather II.** Three credits. Prerequisite: AERO 2010. Advanced weather concepts, forecasting, and applications to flight dispatch problems. Preparation for NWS observers license.
- 3100 Aerospace in Our Lives.** Three credits. Open course for non-majors which allows exploration of the aerospace world in which we live. Credit not applicable to Aerospace major.
- 3170 Flight Safety.** Three credits. Prerequisite: AERO 1020. Safety rules and regulations and aircraft accident investigation.
- 3202 Cross-Country Flight Lab.** One credit. Prerequisite: Private Pilot Certificate. Flight instruction leading to the FAA Instrument Rating-Airplane, single engine land. Students should consult with the chief instructor pilot for a scheduled flight slot. Fee required.
- 3203 Instrument Rating Flight Lab.** One credit. Prerequisites: Private Pilot Certificate, AERO 3202 or equivalent, and completion of AERO 3210 or simultaneous study. Flight instruction leading to the FAA Instrument Rating-Airplane, single engine land. The instrument rating must be completed during this course. The student should consult with the chief instructor pilot for a scheduled flight slot. Fee required.
- 3204 Commercial Flight Laboratory.** One credit. Prerequisites: Private Pilot Certificate, Instrument Rating-Airplane, single engine land, AERO 2010, 2220, 3030 or equivalent for each, and completion of AERO 3215 or simultaneous study. Flight instruction leading to the Commercial Pilot Certificate-Airplane, single engine land. The commercial certificate must be completed during this course. Students should consult with the chief instructor pilot for a scheduled flight slot. Fee required.
- 3205 Conventional Landing Gear Airplane Laboratory.** One credit. Prerequisite: Private Pilot Certificate. Flight and ground instruction leading to conventional landing gear operation endorsement. Course includes flight and ground instruction. Fee required.
- 3206 Advanced Conventional Landing Gear Flight Laboratory.** One credit. Prerequisite: AERO 3205. Flight and ground instruction in a high-performance conventional landing gear aircraft leading to a log book endorsement in this type of aircraft. Fees required. NOTE: This is not an FAA Part 141 course.
- 3210 Instrument Flight Fundamentals.** Three credits. Prerequisite: Private Pilot Certificate. Flight instruction and academics required for the instrument airplane rating.
- 3215 Commercial Flight Fundamentals.** Three credits. Prerequisite: Private Pilot Certificate. Flight instruction and academics required for the Commercial Pilot Certificate.
- 3222 High-Altitude Aircraft Operations Laboratory.** One credit. Prerequisite: AERO 3240. Simulator and ground instruction in an aircraft simulator leading to a high-altitude log book endorsement. Fees required: NOTE: This is not an FAA-approved Part 141 course.
- 3223 High-Performance Aircraft Flight Laboratory.** One credit. Prerequisite: AERO 3204. Flight and ground instruction in a high-performance aircraft leading to a log book endorsement in this type of aircraft. Fees required. NOTE: This is not an FAA-approved Part 141 course.
- 3225 High-Altitude Aircraft Operations.** One credit. Prerequisite: Department head or chief pilot approval. A specialized flight-related course for certifying pilots for the ground portion of high-altitude flight in accordance with Federal Aviation Administration regulations.
- 3230 Crew Resource Management.** Three credits. Augments the student's ability to understand the emotional and logical gaps in communication in the present-day aviation crew environment by developing a better understanding of the student's relational style and personality traits in himself/herself and others. Personality profile is optional and confidential.
- 3240 Advanced Flight Operations.** Three credits. Prerequisites: Commercial Pilot Certificate, Instrument Rating-Airplane, Multiengine Rating-Airplane, MTSU Aerospace student. Two-hour blocks of instruction in classroom and flight simulator for students who desire first officer preparation and turbine engine transition. First officer candidates for the MTSU owned or operated passenger-transporting aircraft will be required to complete this course. Fee required.
- 3241 Air Charter Flight Laboratory.** One credit. Prerequisites: AERO 3202, 3203, 3204, 3223, 3240, and 3260; consent of instructor. Air charter operation. Students will be utilized as co-pilots during transportation of university personnel. NOTE: This is not an FAA-approved Part 141 course.
- 3250 Flight Simulator.** Three credits. Instruction in the use of the flight simulator and development of proficiency to fly under instrument conditions.
- 3260 Multiengine Rating.** Three credits. Prerequisite: Commercial Pilot/Instrument Rating. Flight and ground instruction pertaining to the multiengine rating. Students should consult chief flight instructor for a scheduled flight slot. The multiengine rating must be completed during the course. Fee required.
- 3261 Multiengine Rating Flight Lab.** One credit. Prerequisites: Single Engine Commercial Pilot Certificate with Instrument Rating. Corequisite: AERO 3260. Covers all topics of the Multiengine Practical Test Standards. Flight and ground instruction leading to the FAA Multiengine add-on rating. Multiengine rating required for course completion. Fee required.
- 3301 Sheet Metal Structures.** Three credits. Provides practical experience in the repair of sheet metal structures, including major repairs and alterations.

- 3322 Aerospace Reciprocating Engine Overhaul.** Three credits. Completion of a major overhaul on an aircraft engine, including procedures and acceptable techniques used in engine disassembly, inspection, repair, reassembly, and operational testing.
- 3362 Advanced Aerospace Engine Systems Maintenance and Repair.** Three credits. The operation of powerplant component systems; induction, exhaust, instrumentation, engine electrical, and propeller systems.
- 3371 Aircraft Finishing and Non-Destructive Inspection.** Three credits. Fundamentals of non-destructive inspection techniques including dye penetrant, magnetic particle, eddy current, and ultrasonic inspection.
- 3392 Reciprocating Engine Maintenance Repair.** Three credits. Reciprocating engines including theory, construction, fuel metering, ignition, and operational maintenance procedures. Inspection and repair processes are applied to operating engine systems.
- 3440 Fundamentals of Aerodynamics.** Three credits. Prerequisites: PHYS 2010 and MATH 1730 or equivalent. Aerodynamics of powered flight. Includes theories of lift and drag and fundamentals of stability and control.
- 3970 Cooperative Education.** Three credits. Provides students with opportunities for on-the-job experiences related to academic major. Consult department. Pass/Fail.
- 3980 Cooperative Education.** Three credits. Provides students with opportunities for on-the-job experiences related to academic major. Consult department. Pass/Fail.
- 4040 Aerospace Seminar.** Three credits. Prerequisite: Senior status or final semester of aerospace program. A capstone course involving analysis, synthesis, and integration of relevant academic experiences. Required of all aerospace students prior to graduation.
- 4050 Aerospace Internship I.** Three credits. Prerequisites: Junior standing and consent of department chair. Student is employed by an acceptable airline, airport director, or aerospace industry for 300 hours of field work. Pass/Fail.
- 4060 Aerospace Internship II.** Three credits. Prerequisites: Junior standing and consent of department chair. A continuation of the internship program with a different employer and place of work or a significant job category change. Pass/Fail.
- 4071 Problems in Aerospace.** One to three credits. Individual directed study in the field of aerospace.
- 4075 Selected Readings in Aerospace.** Three credits. Guided readings in aviation or space; alternates each semester. Topics range from historical events to possible future developments. Discussion, presentations, and critical analysis of material.
- 4100 Airline Management.** Three credits. Airline operation and implementation of sound management practice.
- 4110 Airport Management.** Three credits. Airport operations and development of airport master plan.
- 4130 Aerospace Physiology.** Three credits. Instruction, readings, and structured experiences to insure familiarity with the various physiological and health-related factors affecting a flyer's safety and performance.
- 4150 Fixed Base Operations Management.** Three credits. The FBO operator and the essential role played in general aviation.
- 4160 Aviation Law.** Three credits. Legal responsibility in the aviation industry.
- 4170 Airport Planning and Design.** Three credits. Methods utilized; the relationship of the airport and the community.
- 4201 Flight Instructor - Airplane Lab.** One credit. Prerequisites: Current FAA Commercial Pilot Certificate, AERO 3220, and consent of the instructor. Flight and ground instruction leading to the FAA Flight Instructor - Airplane Certificate. Covers all topics of the Flight Instructor - Airplane Practical Test Standards. Flight fees required. NOTE: This is not an FAA Part 141 course.
- 4202 Flight Instructor - Instrument Lab.** One credit. Prerequisites: Current FAA Commercial Pilot Certificate with an instrument rating, AERO 3210, and consent of the instructor. Flight and ground instruction leading to the FAA Flight Instructor - Instrument Certificate. Covers all topics of the Flight Instructor - Instrument Practical Test Standards. Flight fees required. NOTE: This is not an FAA Part 141 course.
- 4203 Flight Instructor - Multiengine Lab.** One credit. Prerequisites: Current FAA Commercial Pilot Certificate with an Instrument rating, AERO 3260, and consent of the instructor. Flight and ground instruction leading to the FAA Flight Instructor - Multiengine Certificate. Covers all topics of the Flight Instructor - Multiengine Practical Test Standards. Flight fees required. NOTE: This is not an FAA Part 141 course.
- 4210 Flight Instructor Fundamentals.** Three credits. Prerequisites: Commercial Pilot Certificate, Instrument Rating-Airplane. Ground instruction leading to the Certificated Flight Instructor - Airplane, Single Engine Land. At least one FAA Ground Instructor Certificate must be completed during the course. Fee required for ground instructor exams. Students should consult with the chief flight instructor for a scheduled flight slot. Fee required.
- 4220 Flight Instruction VI.** Three credits. Prerequisite: Certified Flight Instructor Certificate. Ground and flight instruction leading to the instrument and multiengine instructor ratings. Flight training for this course is to be taken at the MTSU Flight School. The ratings must be completed during the course. Students should consult with the chief flight instructor for a scheduled flight slot. Fee required.
- 4230 Advanced Air Navigation.** Three credits. Advanced navigation equipment and operation procedures, GPS, and LORAN.
- 4240 Aircraft Systems Management.** Three credits. Instruction and requirements pertaining to the activities of a flight engineer.
- 4301 Advanced Aerospace Vehicle Structural Repair.** Three credits. Nontypical structures including bonded and plastic structures. Includes planning and organizing of major structural repair projects and rebuilding of severely damaged aircraft.
- 4310 Aerospace Vehicle Systems.** Three credits. Design, use, and function of typical hydraulic, mechanical, and electrical systems used on transport category aircraft. Designed for potential pilots, flight engineers, and managers.
- 4311 Aerospace Accessory Systems Maintenance and Repair.** Three credits. A laboratory course providing experience in the maintenance, inspection, and repair of aircraft system components.



- 4312 Turbine Engine System.** Three credits. Advanced course in the maintenance of complex systems.
- 4332 Reciprocating Engine Troubleshooting.** Three credits. A laboratory course providing practical experience in inspecting and troubleshooting problems with reciprocating engines and powerplant systems.
- 4342 Turbine Engine Inspection and Troubleshooting.** Three credits. A laboratory course providing practical experience in turbine engine inspection to include hot section inspection, engine operation, and troubleshooting.
- 4371 Advanced Aerospace Vehicle Systems Overhaul.** Three credits. Complete repair and overhaul of complex aerospace vehicle systems including hydraulics, electric, pneumatics, fuel, and oil. Shop layout and quality control procedures stressed.
- 4381 Advanced Aerospace Accessory Systems Maintenance and Repair.** Three credits. Repair and overhaul of complex accessory systems and subsystems. Practical experience in overhaul of air conditioning, pressurization, power brakes, constant speed drives, and jet fuel controls.
- 4392 Aerospace Turbine Engine Maintenance and Overhaul.** Three credits. A laboratory course in field maintenance and repair of turbine engines and components. Includes limited overhaul procedures and techniques. Management procedures stressed.
- 4400 Space.** Three credits. History of global space exploration and the successes and failures of manned and unmanned efforts in the race to the moon.
- 4440 Aircraft Performance.** Three credits. Prerequisites: MATH 1730 and PHYS 2010 or equivalent. Determination of performance from basic lift, drag, power, and structural characteristics of the airplane. Use of flight charts. Effects of loading on performance.
- 4490 Aerospace Science for Teachers.** Three credits. An introduction to the total aviation and space effort.
- 4530 Air Traffic Control.** Three credits. FAA Air Traffic Control system used to regulate air traffic during enroute and terminal phases of flight, with emphasis on communication, navigation, control equipment, and procedures.
- 4560 Advanced Air Traffic Control.** Four credits. Prerequisites: AERO 2220, 3210, and 4530. Capstone course for FAA Collegiate Training Initiative. Focuses on mastery of concepts acquired in AERO 4530. Includes computer simulations conducted in high-density, high-workload conditions. Emphasizes situational analysis, decisive action, and problem-solving ingenuity in terminal and enroute ATC environments. One three-hour lecture and one one-hour laboratory.
- 4580 Flight Dispatch/ATP Written Preparation.** Three credits. Prerequisite: Approval of instructor. Academics for the ATP written. If flight is desired, student will meet FAR 61. Fee required.
- 4590 Flight Dispatch.** Three credits. Prerequisite: AERO 4580. A capstone for those seeking flight dispatch as a career. This course should be the last one in the student's program.
- 4730 Honors Seminar in Aviation Psychology.** Three credits. Application and physiological testing and research techniques in aviation education, management, and technology.



## Courses in Transportation [TRNS]

- 1610 Introduction to Transportation.** Three credits. Transportation development, identification, and evaluation of the elements of the transportation system including historical, legislative, and trend analysis.
- 2620 Transportation Freight Systems.** Three credits. An overview of cargo systems and transportation freight rates. Includes an analysis of transportation issues and the relationship between the shipper, the modes of transportation, and the consumer.
- 3630 Transportation Systems.** Three credits. Prerequisite: TRNS 1610 or permission of instructor. An overview of the structure and management of a logistics distribution system. Distribution logistics as a function area and as a strategic element of the total transportation system.

## Honors College

The Department of Aerospace offers periodically 1020, 4071, and 4730.

## Graduate Study

The Aerospace Department offers the Master of Science in Aviation Administration and the Master of Education in Aerospace Education. Requirements for these degrees and a list of the courses offered for graduate credit are published in the Graduate Catalog.



# School of Agribusiness and Agriscience

**Harley Foutch, Director**  
**Stark Agribusiness and Agriscience Center 100**

**Anderson, Brzezicki, Day, Djunaidi, Downs, Gentry, Haffner,  
Halterlein, Hoffman, Johnston, Redd, Ricketts, Whitaker**

Programs in the School of Agribusiness and Agriscience lead to the Bachelor of Science degree with majors in Agribusiness, Animal Science, and Plant and Soil Science. A concentration in Horse Science is available in the Animal Science major. Certification in Agricultural Education and a concentration in Agricultural Communication are available in each of the three majors. Preparatory programs are also offered for additional study in agricultural engineering, forestry, and veterinary medicine. A minor in Agriculture is available.

A major in the School of Agribusiness and Agriscience requires a minimum of 43 semester hours of courses to include

- 21 hours in the major area;
- an additional six (6) hours from ABAS as indicated under each major's requirements; and
- a general core of ABAS 1000, 1410, 1610, 2210, 3010, and 4100. (3010 not required for majors taking YOED 4110 or participating in judging teams.)

Specific course requirements for each major are listed below in the curriculum of that major.

Environmental Science and Technology is an interdisciplinary major and minor offered by Agribusiness and Agriscience, Biology, Chemistry, and Engineering Technology and Industrial Studies. A complete description of this program is found under the Department of Engineering Technology and Industrial Studies.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

## Major in Agribusiness

The program leading to a major in Agribusiness is designed for students who are interested primarily in the non-farm phases of agriculture. Specific course requirements are

FRESHMAN		SOPHOMORE	
ABAS 1000, 1410, 1610	7	ABAS 2130, 2210	6
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
BIOL 1030 (Nat Sci)	4	COMM 2200 (Comm)	3
MATH 1010 or 1710 (Math)	3	PSCI 1030 (Nat Sci)	4
Humanities and/or Fine Arts Social/Behavioral Sciences	3	Humanities and/or Fine Arts	3
Elective	3	ECON 2410 (Soc/Beh Sci)	3
	<b>29</b>	HIST 2010, 2020, or 2030	6
		Elective	3
			<b>31</b>
JUNIOR		SENIOR	
ABAS 3130, 3010*	6	ABAS 4100, 4190	6
Animal Science elective	3	Agribusiness electives**	6
Agribusiness electives	6	Minor requirements	12
Upper-division electives	6	Upper-division electives	6
Plant and Soil Science elective	3		<b>30</b>
Minor requirements	6		
	<b>30</b>		

\*Students taking YOED 4110 or participating in judging teams may substitute ABAS 4480 or 4590.

\*\*Internship courses may not be used to fulfill this requirement.

## Concentration: Agricultural Communication

The program is designed to meet the needs of students who are interested in specializing in the communications phase of agriculture. A minor in Mass Communication is required. Specific course requirements are

FRESHMAN		SOPHOMORE	
ABAS 1000, 1410, 1610	7	ABAS 2130, 2210	6
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
BIOL 1030 (Nat Sci)	4	COMM 2200 (Comm)	3
MATH 1010 or 1710 (Math)	3	PSCI 1030 (Nat Sci)	4
Humanities and/or Fine Arts Social/Behavioral Sciences	3	Humanities and/or Fine Arts	3
Elective	3	ECON 2410 (Soc/Beh Sci)	3
	<b>29</b>	HIST 2010, 2020, or 2030	6
		Elective	3
			<b>31</b>
JUNIOR		SENIOR	
ABAS 3010*, 3130	6	ABAS 4100, 4190	6
Animal Science elective	3	Agribusiness electives**	6
Agribusiness electives	6	Mass Comm minor	9
Plant and Soil Science elective	3	P R 3400	3
Elective	3	EMC/JOUR 4250	3
Mass Comm minor	9	Elective	3
	<b>30</b>		<b>30</b>

\*Students taking YOED 4110 or participating in judging teams may substitute ABAS 4480 or 4590.

\*\*Internship courses may not be used to fulfill this requirement.

### Certification in Agricultural Education

Agribusiness majors seeking certification to teach agricultural education in secondary schools (grades 7-12) must complete (1) the Agribusiness major, (2) a minor in Secondary Education, and (3) professional agricultural education courses. Specific course requirements are

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ABAS 1000, 1410, 1610, 2230	10	ABAS 3440, 3600	6
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
BIOL 1030 (Nat Sci)	4	Social/Behavioral Sciences	3
MATH 1010 or 1710 (Math)	3	PSCI 1030 (Nat Sci)	4
Humanities and/or Fine Arts	3	Humanities and/or Fine Arts	3
FOED 1110§	3	ECON 2410 (Soc/Beh Sci)	3
	<b>29</b>	HIST 2010, 2020, or 2030	6
		FOED 2110§	3
			<b>31</b>
<b>JUNIOR</b>		<b>SENIOR</b>	
ABAS 2210, 3130, 3340	9	Agribusiness electives*	12
COMM 2200 (Comm)	3	Secondary Education minor§	18
ABAS 4190, 4210, 4220, 4230	12	ABAS 4250	3
Secondary Education minor§	6		<b>33</b>
Elective	1		
	<b>31</b>		

\*Internship courses may not be used to fulfill this requirement.  
 §The Secondary Education minor has been revised. Please see page 193 and contact the Educational Leadership Department for information.

### Major in Animal Science

The program leading to a major in Animal Science is designed to offer preparation for leadership careers in livestock and related industries. Specific course requirements are

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ABAS 1000, 1410, 1610	7	ABAS 2210	3
ENGL 1010, 1020 (Comm)	6	COMM 2200 (Comm)	3
BIOL 1110 (Nat Sci)	4	ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
BIOL 1120	4	CHEM 1010 (Nat Sci)	4
MATH 1010 or 1710 (Math)	3	CHEM 1020	4
Humanities and/or Fine Arts	3	Social/Behavioral Sciences	3
Social/Behavioral Sciences	3	Humanities and/or Fine Arts	3
	<b>30</b>	HIST 2010, 2020, or 2030	6
			<b>29</b>
<b>JUNIOR</b>		<b>SENIOR</b>	
ABAS 3130; 3340 or 4310	6	ABAS 4410, 4510	6
ABAS 3010*	3	Animal Science electives**	6
ABAS 4100, 3440, 3420	9	Minor requirements	6
Minor requirements	12	Upper-division electives	10
	<b>30</b>	Animal Science/Agribusiness elective	3
			<b>31</b>

\*Students taking YOED 4110 or participating in judging teams may substitute ABAS 4480 or 4590.  
 \*\*Electives must come from the following courses: ABAS 3430, 3470, 3480, 3490, 3500, 3540, 4090, 4470, 4520, 4860.

### Concentration: Agricultural Communication

The program is designed to meet the needs of students who are interested in specializing in the communications phase of agriculture. A minor in Mass Communication is required. Specific course requirements are

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ABAS 1000, 1410, 1610	7	ABAS 2210	3
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
BIOL 1110 (Nat Sci)	4	COMM 2200 (Comm)	3
BIOL 1120	4	CHEM 1010 (Nat Sci)	4
MATH 1010 or 1710 (Math)	3	CHEM 1020	4
Humanities and/or Fine Arts	3	Humanities and/or Fine Arts	3
Social/Behavioral Sciences	3	HIST 2010, 2020, or 2030	6
	<b>30</b>	Social/Behavioral Sciences	3
			<b>29</b>
<b>JUNIOR</b>		<b>SENIOR</b>	
ABAS 3130; 3340 or 4310	6	ABAS 4410, 4510	6
ABAS 3010*, 4100, 3440, 3420	12	Agribusiness electives**	6
Mass Comm minor	12	Mass Comm minor	6
	<b>30</b>	P R 3400	3
		EMC/JOUR 4250	3
		Electives	4
		Animal Science/Agribusiness elective	3
			<b>31</b>

\*Students taking YOED 4110 or participating in judging teams may substitute ABAS 4480 or 4590.  
 \*\*Electives must come from the following courses: ABAS 3430, 3470, 3480, 3490, 3500, 3540, 4090, 4470, 4520, 4860.

### Certification in Agricultural Education

Animal Science majors seeking certification to teach agricultural education in secondary schools (grades 7-12) must complete (1) the Animal Science major, (2) a minor in Secondary Education, and (3) professional agricultural education courses. Specific course requirements are

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ABAS 1000, 1410, 1610, 2230	10	ABAS 2210, 3130, 3440	9
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
BIOL 1030 (Nat Sci)	4	ECON 2410 (Soc/Beh Sci)	3
MATH 1010 or 1710 (Math)	3	PSCI 1030 (Nat Sci)	4
Humanities and/or Fine Arts	3	Humanities and/or Fine Arts	3
Social/Behavioral Sciences	3	HIST 2010, 2020, or 2030	6
FOED 1110§	3	FOED 2110§	3
	<b>32</b>		<b>31</b>
<b>JUNIOR</b>		<b>SENIOR</b>	
ABAS 3340, 3420, 4410, 4510	12	ABAS 4250, 3600	6
COMM 2200	3	Animal Science electives*	6
ABAS 4210, 4220, 4230	9	Secondary Education minor§	18
Secondary Education minor§	6		<b>30</b>
Elective	1		
	<b>31</b>		

\*Electives must come from the following courses: ABAS 3430, 3470, 3480, 3490, 3500, 3540, 4090, 4470, 4520, 4860.  
 §The Secondary Education minor has been revised. Please see page 193 and contact the Educational Leadership Department for information.

**Concentration: Horse Science**

The Horse Science concentration is designed to meet the needs of persons majoring in Animal Science who wish to emphasize horse science and related courses. Specific requirements are

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ABAS 1000, 1410, 1610	7	ABAS 2210	3
ENGL 1010, 1020 (Comm)	6	COMM 2200 (Comm)	3
BIOL 1110 (Nat Sci)	4	ENGL 2020 or 2030 or	
BIOL 1120	4	HUM 2610 (Hum/FA)	3
MATH 1010 or 1710 (Math)	3	CHEM 1010 (Nat Sci)	4
Humanities and/or Fine Arts	3	CHEM 1020	4
Social/Behavioral Sciences	3	Humanities and/or Fine Arts	3
	<b>30</b>	Social/Behavioral Sciences	3
		HIST 2010, 2020, or 2030	6
			<b>29</b>
<b>JUNIOR</b>		<b>SENIOR</b>	
ABAS 3010*, 3130, 3340	9	ABAS 3040, 3410, 4090,	
ABAS 4100, 3440, 2400	9	4460	12
Minor requirements	12	Animal Science/Agribusiness	
	<b>30</b>	elective	3
		Minor requirements	6
		Upper-division electives	10
			<b>31</b>

\*Students taking YOED 4110 or participating in judging teams may substitute ABAS 4480 or 4590.

**Major in Plant and Soil Science**

The program leading to a major in Plant and Soil Science is designed for students interested in agronomy, horticulture, and/or soil sciences. Students may choose to concentrate on either one of these areas within this major. Specific course requirements are

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ABAS 1000, 1410, 1610	7	ABAS 2210	3
ENGL 1010, 1020 (Comm)	6	COMM 2200 (Comm)	3
BIOL 1110 (Nat Sci)	4	ENGL 2020 or 2030 or	
BIOL 1120	4	HUM 2610 (Hum/FA)	3
MATH 1010 or 1710 (Math)	3	CHEM 1010 (Nat Sci)	4
Humanities and/or Fine Arts	3	CHEM 1020	4
Social/Behavioral Sciences	3	Social/Behavioral Sciences	3
	<b>30</b>	Humanities and/or Fine Arts	3
		HIST 2010, 2020, or 2030	6
			<b>29</b>
<b>JUNIOR</b>		<b>SENIOR</b>	
ABAS 3010*, 3340	6	ABAS 3130, 4100	6
Agribusiness elective	3	Plant and Soil Science	
Plant and Soil Science		electives	9
electives	9	Minor requirements	6
Minor requirements	12	Upper-division electives	10
	<b>30</b>		<b>31</b>

\*Students taking YOED 4110 or participating in judging teams may substitute ABAS 4480 or 4590.

**Concentration: Agricultural Communication**

The program is designed to meet the needs of students who are interested in specializing in the communications phase of agriculture. A minor in Mass Communication is required. Specific course requirements are

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ABAS 1000, 1410, 1610	7	ABAS 2210	3
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
BIOL 1110 (Nat Sci)	4	HUM 2610 (Hum/FA)	3
BIOL 1120	4	COMM 2200 (Comm)	3
MATH 1010 or 1710 (Math)	3	CHEM 1010 (Nat Sci)	4
Humanities and/or Fine Arts	3	CHEM 1020	4
Social/Behavioral Sciences	3	Humanities and/or Fine Arts	3
	<b>30</b>	HIST 2010, 2020, or 2030	6
		Social/Behavioral Sciences	3
			<b>29</b>
<b>JUNIOR</b>		<b>SENIOR</b>	
ABAS 3010, 3340	6	ABAS 3130, 4100	6
Agribusiness elective	3	Plant and Soil Science	
Plant and Soil Science		electives	9
electives	9	EMC/JOUR 4250	3
Mass Comm minor	9	Mass Comm minor	9
P R 3400	3	Upper-division electives	4
	<b>30</b>		<b>31</b>

\*Students taking YOED 4110 or participating in judging teams may substitute ABAS 4480 or 4590.

**Certification in Agricultural Education**

Plant and Soil Science majors seeking certification to teach agricultural education in secondary schools (grades 7-12) must complete (1) the Plant and Soil Science major, (2) a minor in Secondary Education, and (3) professional agricultural education courses. Specific course requirements are

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ABAS 1000, 1410, 1610,		ABAS 2210, 3440, 3600	9
2230	10	ENGL 2020 or 2030 or	
ENGL 1010, 1020 (Comm)	6	HUM 2610 (Hum/FA)	3
BIOL 1030 (Nat Sci)	4	Social/Behavioral Sciences	3
MATH 1010 or 1710 (Math)	3	PSCI 1030 (Nat Sci)	4
Humanities and/or Fine Arts	3	Humanities and/or Fine Arts	3
Social/Behavioral Sciences	3	HIST 2010, 2020, or 2030	6
FOED 1110§	3	FOED 2110§	3
	<b>32</b>		<b>31</b>
<b>JUNIOR</b>		<b>SENIOR</b>	
ABAS 3130, 3340, 4250	9	Plant and Soil Science	
COMM 2200 (Comm)	3	electives	12
ABAS 4210, 4220, 4230	9	Secondary Education minor§	18
Secondary Education minor§	6		<b>30</b>
Elective	1		
Plant and Soil Science			
elective	3		
	<b>31</b>		

For certification to teach agriscience, students should see advisor.

§The Secondary Education minor has been revised. Please see page 193 and contact the Educational Leadership Department for information.

## Minor

A minor in Agriculture consists of 18 semester hours, with at least 3 hours at the upper-division level, selected with the approval of the school director.

## Pre-Agricultural Engineering

A two-year pre-agricultural engineering program is offered by cooperative agreement with the University of Tennessee and requires two years of study at that school to meet the requirements for a Bachelor of Science degree in agricultural engineering. These courses also may be transferred to programs at other universities.

FRESHMAN		SOPHOMORE	
English 1010, 1020	6	MATH 3110, 3120	7
CHEM 1110, 1120	8	PHYS 2110, 2111	4
MATH 1910, 1920	8	ET 3830, 3840	6
ET 2310, 3360	8	ET 3860, 4970	6
ET 1840	3	ABAS 1610, 3340	6
	<b>33</b>	COMM 2200	3
			<b>32</b>

## JUNIOR

Other courses that could be taken at MTSU and transferred include

HIST 2010, 2020	6	MATH 2010	3
Sociology or Psychology	3	ECON 2410	3

## Pre-Forestry

A two-year pre-forestry program is offered by cooperative agreement with the University of Tennessee which offers two curricula in forestry:

1. Forest Resource Management
2. Wildlife and Fisheries Science

Two years of additional study are necessary to meet the requirements for a Bachelor of Science degree in forestry. These courses also may be transferred to programs in other universities.

FRESHMAN		SOPHOMORE	
BIOL 1110, 1120	8	CHEM 1010, 1020	8
ENGL 1010, 1020	6	GEOL 1040	4
ABAS 1610	3	ECON 2410, 2420	6
ABAS 3630	3	Literature	3
MATH 1710, 1720	6	MATH 1530	3
PHYS 1300	3	ABAS 3340	3
COMM 2200	3	CSCI 1150	3
	<b>32</b>		<b>30</b>

## Preparation for Studying Veterinary Medicine

Students who wish to pursue studies in veterinary medicine should follow the appropriate catalog requirements at institutions offering advanced degrees in the field. The following curriculum will enable a student to continue in a standard veterinary curriculum to complete work for a degree in veterinary medicine:

ENGL 1010, 1020	6
CHEM 1110, 1120	8
BIOL 1110, 1120	8
Humanities and Social Science*	18
PHYS 2010, 2011, 2020, 2021	8
CHEM 3010, 3020	8
BIOL 2120, 4210**	8
CHEM 3530	4
Math***	0-6
	<b>68-74</b>

\*May include English literature, speech, music, art, philosophy, religion, language, history, economics, anthropology, medical vocabulary, political science, psychology, sociology, and geography.

\*\*Should have had organic chemistry plus BIOL 1110, 1120, and 2120 prior.

\*\*\*MATH 1710 and/or 1720 should be taken if student needs background for Physics.

The above requirements represent the very minimum, and those students without an adequate farm background could benefit by taking such agriculture courses as feeds and feeding, elements of animal science, livestock management, livestock production courses, and animal nutrition. An introduction to physiology would also be helpful. Many students who are accepted to a professional veterinary program first complete the four-year Animal Science major at MTSU and earn the B.S. degree

## Courses in Agribusiness and Agriscience [ABAS]

### Agribusiness

**2130 Introduction to Agribusiness.** Three credits. Nature, scope, importance, and relationship to the general economy.

**3130 Principles of Agricultural Economics.** Three credits. Applying the principles of economics to agricultural problems.

**3490 Poultry Production and Marketing.** Three credits. (Also listed under Animal Science.) Prerequisites: ABAS 1410; PSCI 1030 or CHEM 1010, 1011, 1020, 1021; junior standing. The practices, techniques, and demands of further processed poultry production in the U.S., including chickens, ostriches, and emus and egg production. Both domestic and international marketing of poultry products discussed. Examines the economic impact of the poultry industry on both local and national economies.

**3810 Milk Processing and Marketing.** Three credits. (Also listed under Animal Science.) Prerequisite: PSCI 1030 or CHEM 1010, 1011, 1020, 1021. Biological, chemical, and physical properties of cow's milk and its value as an animal food source; techniques of processing and marketing; governmental regulations; dairy arithmetic and laboratory testing.



- 4130 Agricultural Marketing and Price Analysis.** Three credits. Prerequisite: ABAS 3130 or approval of instructor. Agricultural prices and their relationship to production and marketing. Agricultural marketing systems, functions, institutions, and structural changes.
- 4140 Economics of Agribusiness Management.** Three credits. Prerequisite: ABAS 3130 or approval of instructor. Application of economic concepts to agribusiness firms.
- 4150 Agricultural Policy.** Three credits. Prerequisite: ABAS 3130. Agricultural policy in a democratic society; relationship of farm groups to public policy; types of agricultural programs and appraisal of their results.
- 4160 Agricultural Cooperatives.** Three credits. Prerequisite: ABAS 3130. Role of agricultural cooperatives in collective bargaining for farmers; historical development, economic organization, and structural aspects.
- 4180 Internship in Agribusiness.** Six credits. Prerequisite: Approval of instructor. In-depth practical experience in a specific area of agribusiness. NOT OPEN TO STUDENTS WHO HAVE RECEIVED CREDIT FROM ANOTHER SCHOOL INTERNSHIP COURSE.
- 4190 International Agriculture.** Three credits. Prerequisite: ABAS 3130. The effect of international trade on the U.S. agricultural industry.
- 4200 Fruit and Vegetable Marketing.** Three credits. (Also listed under Plant and Soil Science.) Prerequisites: PSCI 1030 and BIOL 1030 or approval of instructor. Basic biochemistry of respiration, handling techniques and practices, quality assessment and marketing of fruit and vegetable crops. Both domestic and international marketing of fruit and vegetable products discussed. Examines the economic impact of improper handling on both the local producer and the end user.
- 4810 The Food Industry.** Three credits. An overview from production to processing to marketing. Covers the current status of the world's largest employer, including where and how foods are produced, distributed, and marketed and where the industry is heading in the future.
- 4820 Principles of Food Processing.** Three credits. Prerequisite: PSCI 1030 or CHEM 1010, 1011, 1020, 1021. Principles used in the modern food industry, including thermal, refrigerated, frozen, and irradiation methods. Includes coverage of the techniques used to process major food commodities such as meats, cereal grains, and fats and oils.
- 4830 Food Quality Control.** Three credits. Prerequisites: PSCI 1030 and BIOL 1030 or approval of instructor. Quality control and sensory evaluation techniques utilized in food processing. Instrumental and physical methods of quality determination of raw and processed food products, hazard analysis and critical control point (HACCP), and quality philosophies employed in the industry. Sensory evaluation techniques and statistical analysis of evaluation results covered.
- Animal Science**
- 1410 Elements of Animal Science.** Three credits. Types and breeds of beef cattle, dairy cattle, sheep, horses, swine, and poultry. Special emphasis on breeds adapted to Tennessee and to market classifications.
- 2110 Basic Horsemanship-Equitation.** One credit. (Same as PHED 2110, activity for men and women.) Preparation for recreational horseback riding; proper riding skills, handling, mounting, dismounting. Various gaits and proper equitation stressed. Two one-hour laboratories.
- 2400 Fundamentals of Horsemanship.** Three credits. Concepts of applications of horse handling, particularly the riding horse. Understanding, communicating with, and influencing the equine athlete; development of basic control skills; development of balance and coordination; use of equipment. (First course in a three-part series.)
- 3040 Stable Management.** Three credits. Prerequisite: ABAS 2400 or approval of instructor. Management of a teaching and training stable and the preparation of horses and riders for the show ring.
- 3400 Horsemanship-Equitation.** Three credits. Prerequisite: ABAS 2400 or approval of instructor. Proper horseback riding, handling, mounting, and dismounting. Various gaits and proper equitation stressed. One lecture and two two-hour laboratory periods.
- 3410 Light Horse Breeds.** Three credits. Historical development of the horse and the establishment of the individual light horse breeds.
- 3420 Genetics of Domestic Livestock.** Three credits. Prerequisites: ABAS 1410; BIOL 1110, 1120; junior or senior standing. Basic principles of genetics, inbreeding, quantitative traits in livestock, prediction of breeding value and genetic progress, method of selection, mating systems, methods of genetic evaluation, computer software for animal breeding and genetics, and genetic engineering.
- 3430 Light Horse Production.** Three credits. Prerequisite: ABAS 2400 or approval of instructor. Breeding, feeding, management, and disease control practices essential for economical light horse production.
- 3440 Livestock Management.** Three credits. Prerequisite: Junior or senior standing. Practical solutions to management problems including feeding and fitting of beef and dairy cattle and swine, sheep shearing, branding of cattle, castrations, and other routine practices. Designed to accompany production courses of light horses, beef cattle, swine, dairy cattle. One lecture and two two-hour laboratory periods.
- 3450 Anatomy and Physiology of Domestic Animals.** Three credits. The parts, functions, and anatomical relationships of various organs and systems of domestic animals.
- 3460 Farrier Science.** Three credits. Basic techniques in the science and art of making, fitting, and actual shoeing of horses according to proper methods. One lecture and two two-hour laboratory periods. (Offered at irregular times in conjunction with the Division of Continuing Studies.)
- 3470 Beef Cattle Production.** Three credits. Prerequisites: ABAS 1410, 3440; junior or senior standing. Breeding, feeding, and management practices essential for economical beef production. Purebred, commercial, and feedlot programs and their role in the beef industry. Beef evaluation through carcass and testing programs.
- 3480 Swine Production.** Three credits. Prerequisites: ABAS 1410, 3440; junior or senior standing. Breeding, feeding, management, and disease control practices essential for economical swine production. Types of buildings, waste disposal, and development of the pig through the nursing, growing, and finishing stages.

- 3490 Poultry Production and Marketing.** Three credits. (Also listed under Agribusiness.) Prerequisites: ABAS 1410; PSCI 1030 or CHEM 1010, 1011, 1020, 1021; junior standing. The practices, techniques, and demands of further processed poultry production in the U.S., including chickens, ostriches, and emus and egg production. Both domestic and international marketing of poultry products discussed. Examines the economic impact of the poultry industry on both local and national economies.
- 3500 Sheep Production.** Three credits. Genetics, nutrition, reproduction, and management practices essential for profitable sheep production.
- 3540 Dairy Production.** Three credits. Prerequisite: ABAS 1410. Feeding and management, ruminant digestion, physiology of milk secretion, production testing and official records, sanitary regulations, handling and marketing of raw milk.
- 3810 Milk Processing and Marketing.** Three credits. (Also listed under Agribusiness.) Prerequisite: PSCI 1030 or CHEM 1010, 1011, 1020, 1021. Biological, chemical, and physical properties of cow's milk and its value as an animal food source; techniques of processing and marketing; governmental regulations; laboratory testing.
- 3900 Horses and Horsemanship.** Three credits. Applications of basic requirements in owning, caring for, and using the pleasure horse as a personal riding mount.
- 4090 Horse Breeding Farm Management.** Three credits. Prerequisites: ABAS 2400, 3040, and 3430 or approval of instructor. Practical as well as vocational application of the principles of horse breeding farm management stressed.
- 4260 Behavior of Domestic Animals.** Three credits. Behavior aspects of raising and managing domestic animals to include equine, swine, goats, cattle, sheep, dogs, and cats. Communication, ingestive, sexual, social, aggressive, and abnormal behaviors emphasized.
- 4400 Advanced Horsemanship-Equitation.** Three credits. Prerequisites: ABAS 2400 and 3400 or approval of instructor. Advanced techniques of horseback riding at all position seats stressing proper equitation and coordination and refinement of techniques learned in previous courses.
- 4410 Animal Nutrition and Feeding.** Three credits. Prerequisites: ABAS 1410; CHEM 1010, 1020; junior standing. Gastrointestinal tract, process of digestion, and nutrient utilization. Application of principles of animal nutrition to formulation of supplements and complete rations for livestock.
- 4430 Internship in Animal Science.** Six credits. Prerequisite: Approval of instructor. In-depth practical experience in a specific area of animal science pertinent to the individual's interest. Students work with producers and agencies that have agreed to cooperate in the program and to provide adequate salary and guidance. NOT OPEN TO STUDENTS WHO HAVE RECEIVED CREDIT FROM ANOTHER SCHOOL INTERNSHIP COURSE.
- 4450 Techniques of Teaching Horsemanship.** Three credits. Prerequisites: ABAS 2400, 3400, and 4400 or approval of instructor. Basic techniques and methods used in teaching riding discussed and applied. Two-hour lecture and one two-hour laboratory.
- 4460 Care and Training of Horses.** Three credits. Prerequisites: ABAS 2400, 3400, and 4400 or approval of instructor. Theory, fundamentals, and practices of breaking, training, fitting, showing, and using light horses for riding and driving, with special emphasis on the Tennessee Walking Horse and the needs of the local area.
- 4470 Advanced Beef Production.** Three credits. Prerequisite: ABAS 3470 or approval of instructor. In-depth look at various systems of beef production from standpoint of function, economics, and suitability to locale. Extensive field trips to commercial cow-calf, feedlot, performance testing, stocker, and purebred operations.
- 4480 Selecting and Judging Horses.** Three credits. Individual parts, conformation, and gaits of the horse as they relate to selecting and judging horses for production, recreation, and sport.
- 4490 Livestock Evaluation.** Three credits. Prerequisite: Approval of instructor. Comparative evaluation of beef cattle, swine, sheep, and horses. Develops defense of placing through an organized set of reasons involving terms describing the animal's characteristics. Importance of these characteristics to the animal function stressed.
- 4510 Domestic Animal Reproductive Physiology.** Three credits. Prerequisites: ABAS 1410; BIOL 1110, 1120; junior standing. Advanced topics in the anatomy, physiology, and endocrinology of reproduction in domestic livestock species. Topics include male and female physiology and an overview of comparative anatomy and physiology between species. Current technologies and methods in controlling reproduction in livestock species also discussed.
- 4520 Companion Animals.** Three credits. Introduces the variety of companion animals (dogs, cats, horses, rabbits, ferrets, amphibians, fish, hamsters, gerbils, and birds) and further examines issues related to dogs and cats. Breeds, behavior, breeding, training, and care and management of dogs and cats emphasized.
- 4580 Advanced Judging of Horses.** Three credits. Prerequisite: ABAS 4480. Systems of judging for current horse show disciplines and exercises for students who aspire to become professional judges. Ethics, contracts with management, and procedures for becoming a judge are part of focus.
- 4590 Dairy Cattle Judging.** Three credits. Ideal dairy cattle type and relationship to performance and longevity. Classification and evaluation according to type of the various breeds and comparative judging within the breed. Selection for genetic improvement.
- 4860 Meat Science and Technology.** Three credits. Prerequisites: ABAS 1410 and junior standing. Ideal livestock type and relationship to carcass merit, reproduction, and longevity. Characteristics of livestock carcasses, wholesale and retail cut locations and value, grading systems, and evaluation of overall carcass merit and that of component parts. The art of cutting cattle and hog carcasses into wholesale and retail cuts. One-hour lecture and one four-hour laboratory.
- 4980 Seminar in Horse Science.** Three credits. Familiarizes horse science majors with important current scientific investigation.

## Plant and Soil Science

- 1610 Elements of Plant Science.** Three credits. Fundamental plant processes; plant tissues, structures, environment, growth, development, reproduction, and propagation.
- 3330 Field Crop Production.** Three credits. Economic importance, adaptation, origin, and history; botanical characteristics; cultural methods, uses, breeding, and pests of field crops.
- 3340 Soil.** Three credits. Physical, chemical, and biological properties. REQUIRED FOR ENVIRONMENTAL SCIENCE MAJORS.
- 3350 Soil Fertility and Fertilizer.** Three credits. Prerequisite: ABAS 3340. Use of fertilizer and liming materials in soil-plant relationships. Lecture/lab.

- 3370 Soil Analysis.** Three credits. Prerequisite: ABAS 3340. Analysis of soils in laboratory. REQUIRED FOR ENVIRONMENTAL SCIENCE MAJORS. Lecture/lab.
- 3630 Forestry.** Three credits. Culture, conservation, management, and utilization of forest stands.
- 3640 Woody Landscape Plants.** Three credits. Distribution, characteristics, relationships, and adaptation of native and exotic trees shrubs, and vines for landscape use. One-hour lecture and four-hour lab.
- 3660 Vegetable Gardening.** Three credits. Principles of home and commercial vegetable production; adaptation, culture, fertility, diseases, and insects of vegetables.
- 3700 Agricultural Chemicals in Soil Environments.** Three credits. Prerequisites: BIOL 1110, 1120, and CHEM 1010, 1011, 1020, 1021 or approval of instructor. Characteristics, use, mode of action, degradation, and environmental impact of fertilizers and pesticides used in agriculture; environmental safeguards imposed by federal and state regulations on chemical use.
- 4200 Fruit and Vegetable Marketing.** Three credits. (Also listed under Agribusiness.) Prerequisites: PSCI 1030 and BIOL 1030 or approval of instructor. Basic biochemistry of respiration, handling techniques and practices, quality assessment and marketing of fruit and vegetable crops. Both domestic and international marketing of fruit and vegetable products discussed. Examines the economic impact of improper handling on both the local producer and the end user.
- 4300 Plant Protection.** Three credits. Prerequisite: ABAS 1610 or 4 hours of biology. Principles of protecting crop plants from damage by weeds, insects, diseases, and other biotic factors. Pest control by chemical, cultural, and biological methods with an emphasis on integrated pest management.
- 4310 Forage Crops.** Three credits. Adaptation, distribution, establishment, management, culture, and utilization of forage legumes and grasses.
- 4330 Turf Management.** Three credits. Prerequisite: ABAS 1610 or BIOL 1120. Establishment and management of turf grasses for lawns, golf courses, and parks.
- 4340 Soil Formation.** Three credits. Prerequisite: ABAS 3340. Environmental factors affecting soil formation and utilization.
- 4350 Soil Survey and Land Use.** Three credits. Prerequisite: ABAS 3340 or approval of instructor. Soil properties used to determine suitability for land use. Lecture/lab.
- 4370 Soil and Water Conservation.** Three credits. Principles and practices of soil and water conservation in rural and urban environments. Lecture/lab.
- 4380 Interior Landscaping.** Three credits. Principles and practices of designing, installing, and maintaining landscapes in malls, public buildings, and other indoor environments.
- 4390 Urban and Sports Turf Soils.** Three credits. Prerequisites: ABAS 3340 and 4330. Describe, design, manage, and evaluate urban and sports turf soils. Lecture/lab.
- 4610 Arboriculture.** Three credits. Prerequisite: ABAS 1610 or BIOL 1120. The culture of trees, shrubs, and vines in the landscape. Planting, transplanting, fertilizing, irrigation, pruning, problem diagnosis, and damage repair included.
- 4620 Greenhouse Management.** Three credits. Prerequisite: ABAS 1610 or BIOL 1120. Analysis of soils, fertilizers, irrigation techniques, container preparation, ventilation, growth regulation, and carbon dioxide enrichment for greenhouse operation. Two-hour lecture and two-hour lab.
- 4630 (463) Floriculture.** Three credits. Prerequisite: ABAS 1610 or BIOL 1120. Propagation and other cultural practices for the production and maintenance of plants and flowers in the home. Two-hour lecture and two-hour lab.
- 4640 Landscaping.** Three credits. Application of the principles of design, the use of proportionate-sized woody landscape plants, and other practices to produce low-maintenance-cost landscapes. One-hour lecture and four-hour lab.
- 4660 Nursery Management.** Three credits. Prerequisite: ABAS 1610 or BIOL 1120. Principles and practices of nursery management as a business. Nursery administration, financial management, and marketing. Cultural management of field- and container-grown nursery plants.
- 4670 Plant Propagation.** Three credits. Prerequisite: ABAS 1610 or BIOL 1120. Anatomical features and physiological principles involved in propagating plants from seed and by division, cutting, budding, and grafting. Use of growth regulators and environmental factors. Two-hour lecture and two-hour lab.
- 4680 Internship in Plant and Soil Science.** Six credits. Prerequisite: Approval of instructor. Practical experience in a specific area of agronomy, horticulture, or soils. Classroom material related to practical application. NOT OPEN TO STUDENTS WHO HAVE RECEIVED CREDIT FROM ANOTHER SCHOOL INTERNSHIP.
- 4690 Japanese Landscaping.** Three credits. The elements of Japanese garden design.

## Agricultural Education

- 2230 Introduction to Vocational Agricultural Education.** Three credits. Duties of the vocational agriculture teacher with special emphasis on the Future Farmers of America and Supervised Agricultural Experience Programs.
- 4210 Farm Power and Equipment.** Three credits. Gasoline engines with actual work experience in overhaul. Work also with transmissions, hydraulics, braking systems, and other farm equipment including use of shop manuals, operation manuals, and parts books.
- 4220 Methods of Teaching Agricultural Mechanics.** Three credits. Emphasis on performing shop skills such as welding, brazing, wiring, etc.
- 4230 Adult Education in Vocational-Technical Education and Program Development.** Three credits. How to teach adults and administer adult programs. Emphasis on planning, organizing, and arranging courses for adults in agriculture.
- 4240 Workshops in Agricultural Education.** One to six credits each. Prerequisite: Teaching experience or approval of instructor. Designed to provide vocational agriculture teachers with intensive training in selected areas of agriculture. A MAXIMUM OF SIX CREDIT HOURS IN EACH DIVISION.
- 4241 Production Agriculture**
- 4242 Ornamental Horticulture**
- 4243 Agricultural Mechanics**
- 4244 Farm Energy Alternatives**
- 4245 Problems of New and Established Teachers**

## Agribusiness and Agriscience General

- 1000 Orientation in Agriculture.** One credit. Job opportunities in agriculture, departmental facilities, extracurricular activities at MTSU associated with specific phases of agriculture. Pass/Fail.
- 2210 Introduction to Agricultural Engineering.** Three credits. Prerequisite: MATH 1710 or 1010 or approval of instructor. Basic principles, mechanics, combustion engines, electricity, building construction, and machinery with applications of problem solving techniques.
- 3010 Agri-Media Skills.** Three credits. Applications of oral and written skills in communicating about agricultural research, shows, and sales.
- 3600 Horticulture in Our Lives.** Three credits. Emphasis on the role of horticulture in everyday living, through principles of growing plants in the home, floral design, home landscaping, and gardening.
- 4100 Microcomputer Applications in Agriculture.** Three credits. Includes use of agricultural software, agricultural communications networks, computer dairy feeding systems, and farm records.
- 4250 Leadership in Agricultural Industries.** Three credits: Prerequisite: Junior or senior standing or consent of instructor. A capstone course to enhance students' leadership and human relation skills in the workplace. Topics include leadership styles, theories, characteristics of leaders (conceptual, technical, human relations), communication styles, group dynamics, conducting successful meetings, problem solving, goal setting, attitudes, motivation, self-concept, learning styles, time management, and employability skills.
- 4700 Agriculture in Our Lives.** Three credits. National and international importance of U.S. agriculture. Emphasis on food production and marketing, land conservation, and agriculture-related recreation. Accepted as a natural science elective for education majors. NO CREDIT GIVEN TOWARD A MAJOR IN THE SCHOOL OF AGRIBUSINESS AND AGRISCIENCE.
- 4910 Problems in Agriculture.** One to six credits. Problem or problems selected from one of the major disciplines. May involve conferences with instructor, library work, field study and/or laboratory activity. Students can take from one to three credits with a maximum of three per semester.
- 4990 Seminar.** One credit. Students required to research and give an oral report on a current agricultural topic.

## Graduate Study

A graduate minor is offered in Agriculture. Requirements and a list of the courses offered for graduate credit are published in the Graduate Catalog.



# Department of Biology

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**George Murphy, Chair**  
**Davis Science Building 128**

**Bailey, Benz, Blum, Butler, Cahoon, DuBois, Elrod-Erickson, Ervin, A. Farone, M. Farone, Hemmerly, Howard, Jetton, Johnson, Kelly, Klukowski, Leblond, Mathis, McGhee, Miller, Mullen, Newsome, Rosing, Rutledge, Seipelt, Smith-Walters, Stewart, Swain, Walck, Wright, Zamora**

The Department of Biology offers preparation for teachers of biology, for biologists in industrial and governmental employment, and for students planning for graduate study in biology or for advanced professional courses in health sciences. The program for the Biology major leads to the Bachelor of Science degree. Students choose from concentrations in Animal Biology, General Biology, Genetics and Biotechnology, Microbiology, Physiology, and Plant Biology. A minor in Secondary Education is suggested for those persons planning to teach. A minor in Biology is also available.

Environmental Science and Technology is an interdisciplinary major and minor offered by Agribusiness and Agriscience, Biology, Chemistry, and Engineering Technology and Industrial Studies. A complete description of the program is found under the Department of Engineering Technology and Industrial Studies.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

## Major in Biology

The major in Biology requires 40 semester hours including a biology core for all concentrations of 26 semester hours:

1. BIOL 1110 and 1120 or, with approval of the department head, BIOL 1030 with a grade of A or B plus 4 hours from upper-division courses;
2. BIOL 2120, 2230, 3230, 4240;
3. BIOL 4110 or 4210 or 4500.

Other requirements include

1. MATH 1910 and one of the following: BIOL 4350 or MATH 2050 or MATH 1920;
2. 12 hours of chemistry (1110, 1120, and 2030 or 3010).

All Biology majors are assigned a faculty advisor through the Biology Department Office (DSB 128). The student is responsible for seeking the assistance of the advisor. This catalog is not intended to provide the detail necessary for self-advising.

Every Biology major is required to declare a concentration area. Each area requires semester hours to be selected from a set of designated courses.

### Concentration: Animal Biology

Minimum of 10 hours selected from  
BIOL 3010, 3020, 3040, 3050, 4140, 4180, 4220, 4390, 4580, 4720

### Concentration: General Biology

Select one course from each of the following three areas:

1. BIOL 3010 or 3020 or 4180;
2. BIOL 3030 or 4080 or 4120;
3. BIOL 3040 or 3050 or 4130 or 4140.

### Concentration: Genetics and Biotechnology

BIOL 4550 and BIOL 4450 or 4460 and one course selected from  
BIOL 4270, 4290, 4300, 4450, 4460, 4510, 4570, 4720

### Concentration: Microbiology

Minimum of 10 hours selected from  
BIOL 3210, 4080, 4300, 4430, 4440, 4450, 4510, 4550, 4730

### Concentration: Physiology

Minimum of 10 hours selected from  
BIOL 3010, 3020, 4110\*, 4130, 4170, 4210\*, 4300, 4440, 4500\*,  
4520, 4560, 4570

*\*only if not used for core requirement*

### Concentration: Plant Biology

Minimum of 10 hours selected from  
BIOL 3030, 4060, 4080, 4120, 4520

### Suggested freshman and sophomore program for majors not planning to teach

FRESHMAN		SOPHOMORE	
BIOL 1110 (Nat Sci)	4	BIOL 2120, 2230	8
BIOL 1120	4	ENGL 2020 or 2030 or	
CHEM 1110 (Nat Sci)	4	HUM 2610 (Hum/FA)	3
CHEM 1120	4	HIST 2010, 2020, or 2030	6
ENGL 1010, 1020 (Comm)	6	CHEM 2030 or 3010	4
MATH 1910 (Math)	4	Social/Behavioral Sciences	3
COMM 2200 (Comm)	3	BIOL 4350 or MATH 2050*	3-4
	29	*Elective (if MATH 2050 taken)	1
		Minor	3
			31
JUNIOR		SENIOR	
Social/Behavioral Sciences	3	Humanities and/or Fine Arts	3
Humanities and/or Fine Arts	3	BIOL concentration	6
BIOL 3230	2	Minor**	9
BIOL 4240	4	Upper-division BIOL elective	4
BIOL 4110, 4210, or 4500	4	Electives**	9
BIOL concentration	4		31
Minor**	6		
Elective**	3		
	29		

\*See advisor for additional choices in this area.

\*\*Must include 16 hours of upper-division classes.

## Teacher Licensure

Students seeking a license to teach in secondary schools (grades 7-12) must complete (1) a major in the subject they intend to teach, (2) a minor in Secondary Education, and (3) additional teacher licensure requirements.

### Additional Teacher Licensure Requirements

The following courses are required in addition to the General Education requirements (see pages 60–63).

MATH 1710 College Algebra, 3 hours

MATH 1720 Plane Trigonometry, 3 hours

#### General Science Core:

BIOL 1110, 1120 General Biology, 8 hours

CHEM 1110, 1120 General Chemistry I, II, 8 hours

CHEM 2030 Elements of Organic Chemistry, 4 hours, OR

CHEM 3010 Organic Chemistry, 4 hours

ASTR 1030 Exploring the Universe, 3 hours

PHYS 2010, 2011 Non-Calculus-Based Physics I/Physics Problems

Laboratory I, 4 hours

PHYS 2020, 2021 Non-Calculus-Based Physics II/Physics Problems

Laboratory II, 4 hours

GEOL 1040 Physical Geology, 4 hours

### Secondary Education Minor Requirements

Students must contact their Secondary Education minor advisors for approval of appropriate courses.

**NOTE:** The Secondary Education minor has been revised. Please see page 193 and contact the Educational Leadership Department for information.

### Biology Major Requirements for Licensure

Complete the following General Biology concentration:

BIOL 1110, 1120, 8 hours

BIOL 2120, 4 hours

BIOL 2230, 4 hours

BIOL 3230, 2 hours

BIOL 4240, 4 hours

**Select one:** BIOL 3010, 4 hours; BIOL 3020, 4 hours; BIOL 4180, 4 hours

**Select one:** BIOL 3030, 4 hours; BIOL 4080, 4 hours; BIOL 4120, 4 hours; BIOL 4520, 4 hours

**Select one:** BIOL 3040, 3 hours; BIOL 3050, 3 hours; BIOL 4130, 4 hours; BIOL 4140, 4 hours

**Select one:** BIOL 4110, 4 hours; BIOL 4210, 4 hours; BIOL 4500, 4 hours

**Biology electives to total 40 hours minimum.**

### Minor in Biology

There are two options for the minor in Biology:

1. 19 semester hours in biology including one year of freshman biology or equivalent and BIOL 2120 and 2230.
2. 19 semester hours in biology including BIOL 1030 with a grade of A or B plus 4 hours chosen from upper-division courses and approved by the department head and BIOL 2120 and 2230.

Each option requires at least one upper-division course to be taken at MTSU. A 2.00 GPA is required for courses satisfying the minor in Biology.

Four or more semester hours of freshman-level General Education equivalent biology in transfer credits may be substituted for BIOL 1030.

Students who have taken BIOL 1110 or 1120 and also BIOL 1030 may use BIOL 1030 to satisfy their General Education requirement and BIOL 1110 or 1120 as elective hours toward graduation. However, neither BIOL 1110 nor 1120 alone will substitute for BIOL 1030.

## Course in General Studies Biology [BIOL]

**1030 Topics in Biology.** Four credits. Biological principles and processes and their importance to humans. Three lectures and one two-hour laboratory.

## Courses in Biology [BIOL]

**1110 General Biology.** Four credits. Primarily for Biology majors and minors and other science-oriented students. Biological principles and processes, including introduction to the nature of science, cells (structure, function, metabolism, division), genetics, evolution, viruses, bacteria, protists, and fungi. Three lectures and one three-hour laboratory.

**1120 General Biology.** Four credits. Prerequisite: BIOL 1110. Primarily for Biology majors and minors and other science-oriented students. Survey of plants and animals emphasizing evolution, structure, function, reproduction, growth, and ecology. Three lectures and one three-hour laboratory.

**2000 Orientation to the Medical Lab.** Two credits. Open to anyone in medical and allied medical careers, but may not be taken as part of Biology major. Survey of medical lab careers, curricula, and affiliated laboratory programs; experience in medical laboratory testing procedures. One lecture and one two-hour laboratory.

**2010, 2020 Human Anatomy and Physiology I and II.** Four credits each. Prerequisites: BIOL 2010 - C or better in high school chemistry and biology within the last five years or consent of instructor; BIOL 2020 - C or better in 2010. Strongly recommend BIOL 1030/1110 prior to BIOL 2010. Meets requirements for many pre-health professional programs including nursing. Structure and function of humans covered. Three lectures and one three-hour laboratory.

**2030 Anatomy and Physiology.** Three credits. Prerequisite: BIOL 1030 or 1110. General structure and physiological activities of human systems. Two lectures and one two-hour laboratory.

**2120 Genetics.** Four credits. Prerequisites: BIOL 1110, 1120. An introductory course in genetics. Surveys and explores the sub-disciplines of genetics, including classical, molecular, and evolutionary genetics. Emphasis on the experiments, techniques, and theories forming the foundation of modern genetic research and its applications. Three lectures and one two-hour laboratory.

**2230 Microbiology.** Four credits. Prerequisites: BIOL 1110, 1120 or 2010, 2020; background in general chemistry strongly recommended. Morphology, physiology, isolation, and cultivation of bacteria, fungi, and viruses. Three lectures and one two-hour laboratory.

**3000 Life Science for Elementary Teachers.** Four credits. Prerequisites: 8 hours of science including BIOL 1030 or equivalent. A process-oriented approach to the study of life with emphasis on execution and analysis of activities and experiments suited to the elementary school classroom. Six hours lecture and laboratory. (May not be used for Biology majors or minors.)

**3010 Embryology.** Four credits. Prerequisites: BIOL 1110, 1120. Early development of the frog, chick, pig, and human. Living material, whole mounts, and serial sections are used for studying cleavage, germ layer formation, histogenesis, and organogenesis. Three lectures and one three-hour laboratory.

**3020 Comparative Anatomy of the Vertebrates.** Four credits. Prerequisites: BIOL 1110, 1120. Vertebrate morphology and the development and function of systems and organs. Three lectures and one three-hour laboratory.

**3030 Non-Flowering Plants.** Four credits. Prerequisites: BIOL 1110, 1120. Structure, physiology, methods of reproduction, and classification of the algae, fungi, liverworts, mosses, and ferns. Three lectures and one three-hour laboratory.

**3040 Entomology.** Three credits. Prerequisites: BIOL 1110, 1120. Morphology, classification, evolution, life histories, and economic importance of insects. Five hours of lecture and laboratory.

**3050 Parasitology.** Three credits. Prerequisites: BIOL 1110, 1120. Life histories, host-parasite relationships, and control measures of the more common parasites of humans and domesticated animals. Two lectures and one three-hour laboratory.

**3070 Biology Seminar on Environmental Problems.** Three credits. Causes, effects, and solutions of environmental problems. Three lectures.

**3100 History and Philosophy of Biology.** Three credits. Prerequisites: BIOL 1110, 1120. Historical development of biology; the philosophy, ideas, and contributions of outstanding biologists. Two lectures.

**3160 Social Issues and Genetic Technology.** Three credits. Prerequisite: BIOL 1030 or 1110 or 1120. Exploration of genetic principles related to contemporary issues. Provides students with the background needed to evaluate topics such as the release of genetically engineered plants and animals, the use of DNA fingerprinting techniques, the relationship between race and IQ, and others which impact their lives. Impact of genetics on society as well as society's influence on the science will be explored. Role of genetics in medicine and agriculture also emphasized.

**3200 Internship in Biology.** Two to four credits. Prerequisite: Permission of department. Practical experience for students in a professional setting.

**3210 Environmental Microbiology.** Three credits. Prerequisite: BIOL 2230. Deals with microorganisms commonly found in air, water, and soil. Two lectures and one three-hour laboratory.

**3220 Environmental Regulations and Compliance.** Three credits. Prerequisites: BIOL 1110, 1120. An in-depth review and application of governmentally established regulations concerning environmental quality. Emphasis on major federal acts. Three lectures.

**3230 Introduction to Biological Literature.** Two credits. Prerequisites: BIOL 1110, 1120. Application of methods of literature research in the biological sciences and techniques of scientific writing.

- 3240 Introduction to Evolution.** Three credits. Prerequisites: BIOL 1110 and 1120 or 1030. Scientific principles and concepts for formulating the biological theory of evolution. Includes historical development of modern theory; Darwin's natural selection theory; and problems in speciation, systematics, and geographical distribution of species.
- 3340 Pathophysiology.** Three credits. (Same as NURS 3010.) Prerequisites: BIOL 2230, 2010, 2020. Basic mechanisms of disease processes and their role in disrupting normal physiology. Three lectures.
- 4060 Dendrology.** Three credits. Prerequisite: BIOL 1120. Woody plants with emphasis on important timber trees of North America. Two lectures and one three-hour laboratory.
- 4070 Economic Botany.** Three credits. Prerequisite: BIOL 1120. Useful plants which have shaped civilization. Topics include origin of agriculture, fruits and nuts, grains and legumes, vegetables, spices and herbs, oils and waxes, medicinal plants, psychoactive plants. Three lectures.
- 4080 Mycology.** Four credits. Prerequisite: BIOL 1120. Emphasizes taxonomy, morphology, and culture of fungi and their importance to humans. Three lectures and one three-hour laboratory.
- 4110 General Physiology.** Four credits. Prerequisites: BIOL 2120; CHEM 3010 or 2030. Physiological and chemical properties of life processes in animals using an organ systems approach. Emphasis on mammalian physiology. Three lectures and one three-hour laboratory.
- 4120 Flowering Plants.** Four credits. Prerequisites: BIOL 1110, 1120. Structure and classification of seed plants; a survey of local flora. Three lectures and one three-hour laboratory.
- 4130 Histology.** Four credits. Prerequisites: BIOL 1110, 1120, 2120; CHEM 1110, 1120. Microscopic anatomy of vertebrate cells, tissues, and organs. Three lectures and one three-hour laboratory.
- 4140 Invertebrate Zoology.** Four credits. Prerequisites: BIOL 1110, 1120. Morphology, classification, evolution, life histories, and economic importance of invertebrate phyla. Three lectures and one three-hour laboratory.
- 4150 Radiation Biology.** Three credits. Prerequisites: Junior standing and permission of department. Types and properties of ionizing radiation, isotopes and tracer study techniques, and the biological effects of ionizing radiations on living things.
- 4170 Endocrinology.** Three credits. Prerequisites: BIOL 2120, 4110 or 2020; CHEM 3010 or 2030. Study of hormones and other chemical messengers including synthesis, secretion, transport, receptors, cellular, and physiological activity. Focus on humans and other vertebrates. Three lectures.
- 4180 Vertebrate Zoology.** Four credits. Prerequisites: BIOL 1110, 1120. Structure, life history, and classification of fish, amphibians, and mammals. Local representatives emphasized. Three lectures and one three-hour laboratory.
- 4210 Cell and Molecular Biology.** Four credits. Prerequisites: BIOL 1110, 1120, 2120, 2230; CHEM 2030 or 3010. Cellular morphology and function. Three lectures and one three-hour laboratory.
- 4220 Ichthyology.** Four credits. Prerequisites: BIOL 1110, 1120. The morphology, physiology, taxonomy, and ecology of fishes. Three lectures and one three-hour laboratory.
- 4240 General Ecology.** Four credits. Prerequisites: BIOL 1110, 1120; CHEM 1110. Basic concepts of the ecosystem and community aquatic and terrestrial habitats, and population ecology; complemented by field and laboratory activities. Three lectures and one three-hour laboratory.
- 4250 Limnology.** Four credits. Prerequisites: BIOL 1110, 1120; CHEM 1110. Biological, chemical, and physical aspects of lakes and streams. Three lectures and one three-hour laboratory.
- 4260 Nature Study.** Three credits. Prerequisites: BIOL 1110, 1120. Identification of local plants and animals and a consideration of the ecological principles governing them. Two lectures and one two-hour laboratory.
- 4270 Transmitting Electron Microscopy.** Four credits. Prerequisite: Permission of department. Tissue fixation, dehydration, embedding, and thin sectioning for examination and development of micrographs using a Zeiss electron microscope. One-hour lecture and three two-hour laboratory periods.
- 4280 Undergraduate Research in Biology.** Three credits. Prerequisite: Permission of department. Selection, design, and conduction of projects.
- 4290 Scanning Electron Microscopy.** Four credits. Prerequisite: Permission of department. Preparation of biological and non-biological materials for examination and development of micrographs using an ISI electron microscope. One-hour lecture and three two-hour laboratory periods.
- 4300 Immunology.** Four credits. Prerequisite: BIOL 2230. Humoral and cellular mechanisms of immunity. Two lectures and one two-hour laboratory.
- 4320 Seminar: Advancements in Biology.** Two credits. Prerequisite: Senior standing. A broad overview of biological principles and recent research developments. Two lectures.
- 4331-4333 Biome Analysis.** One to four credits. Prerequisite: Permission of department and junior or senior standing. An intensive classroom and on-site study of a specific biome. Special emphasis on data collection and analysis. Consult the department chair for specific credits and costs.
- 4331 Cedar Glade**  
**4332 Biome Analysis**  
**4333 Desert**
- 4350 Biometry.** Four credits. Prerequisites: BIOL 1110, 1120, 2120. Statistical methods utilized in biological research. Three lectures and one two-hour laboratory.
- 4360 Energy Dispersive X-Ray Analysis.** One credit. Prerequisite: BIOL 4290. Elemental analysis of materials using an energy dispersive x-ray system with scanning electron microscopy. One three-hour laboratory.
- 4390 Ethology.** Four credits. Prerequisite: BIOL 1110. Innate and learned animal behavior in primitive and advanced animals including behavior associated with space, reproduction, and food getting. Three lectures and one three-hour laboratory.
- 4400 Medical Botany.** Three credits. Prerequisite: BIOL 1120. Plants affecting human health. Included are poisonous and psychoactive as well as remedial plants; both ethnobotanical and modern medicinal uses treated. Three lectures.



- 4430 Diagnostic Microbiology.** Four credits. Prerequisite: BIOL 2230. Microorganisms that cause disease in humans and other animals, their isolation and identification, mechanisms of disease causation, and methods of control. Two lectures and one four-hour laboratory.
- 4440 General Virology.** Four credits. Prerequisites: BIOL 2230; CHEM 1110, 1120. Viruses, with emphasis on their clinical importance and impact on biotechnology. Two lectures and one four-hour laboratory.
- 4450 Molecular Genetics.** Four credits. Prerequisites: BIOL 2230, 2120; CHEM 1110, 1120. Basic techniques of microbial genetics and gene manipulation with emphasis on the application of molecular genetics in basic and applied research. Six hours lecture/laboratory.
- 4460 Human Genetics.** Three credits. Prerequisite: BIOL 2120. Application of the fundamental laws of inheritance to humans. Two lectures and one two-hour laboratory.
- 4500 Plant Physiology.** Four credits. Prerequisites: BIOL 1110, 1120, 2120; CHEM 2030 or 3010. Plant growth, development, and metabolism at the cellular and whole plant levels. Six hours of lecture/laboratory.
- 4510 Food/Industrial Microbiology.** Four credits. Prerequisite: BIOL 2230. Interaction between microorganisms and food; industrial processes of importance to humans. Two lectures and two two-hour laboratory periods.
- 4520 Plant Anatomy.** Four credits. Prerequisite: BIOL 1120. Plant cells, tissues, and organs. Emphasis on the survival value of the plant's various structural features. Three lectures and one three-hour laboratory.
- 4540 Topics in Environmental Education.** One to four credits. Prerequisite: Junior standing or above. An intensive classroom and field study of natural science and resources in Tennessee. Special emphasis on data collection, analysis, and problem solving. Target groups are upper-division students in biology and education. Consult the department chair for specific credits and costs. THIS COURSE DOES NOT APPLY TO THE BIOLOGY MAJOR OR MINOR.
- 4550 Biotechnology.** Three credits. Prerequisites: BIOL 1110, 1120, 2230. Instruction in both theory and application of current research methodologies in biology and molecular biology. Topics include immunochemistry, polymerase chain reaction, restriction enzyme analysis, and electrophoresis. Five hours lecture/laboratory.
- 4560 Neurobiology.** Four credits. Prerequisites: BIOL 1110, 1120; PSY 4030 or 4240. Introduces comparative neurobiology. Topics include the basic structure and function of the nerve cell and organization of nervous systems of representative species of invertebrate and vertebrate animals. Two lectures and one three-hour laboratory.
- 4570 Principles of Toxicology.** Three credits. Prerequisites: BIOL 1110, 1120; CHEM 1110, 1120, 3010. Study of adverse effects of chemical agents on living organisms; current toxicological techniques used in the laboratory. Two-hour lecture and one three-hour laboratory.
- 4580 Marine Biology.** Four credits. Prerequisites: BIOL 1110, 1120; CHEM 1110, 1120. Introduction to the biological, chemical, and physical characteristics of major marine environments and their associated flora and fauna. Three lectures and one three-hour laboratory.
- 4590 Principles of Environmental Toxicology.** Four credits. Prerequisites: BIOL 1110, 1120; CHEM 1110, 1120, 3010. Ecological effects of chemicals in the environment and techniques currently utilized to assess these effects. Lab includes current environmental assessment techniques, including biomonitoring. Three-hour lecture and three-hour laboratory.
- 4700 Principles of Plant-Animal Interactions.** Three credits. Prerequisites: BIOL 1110, 1120. Evolutionary and ecological perspectives on how plants attract and repel organisms that influence their ability to survive and leave progeny. Topics include angiosperm evolution; the coevolution of plants with pollinators, herbivores, mycorrhizae, and N-fixing bacteria; how plant secondary metabolites facilitate or mitigate these interactions. Two-hour lecture and three-hour laboratory.
- 4720 Animal Development.** Four credits. Prerequisites: BIOL 1110, 1120, and 2120; BIOL 4210 recommended. Processes and underlying molecular mechanisms by which a single fertilized egg develops into an adult organism, focusing on vertebrate development, but including insights gained from other model organisms. Three hours of lecture and two hours of lab.
- 4730 Microbial Physiology and Biochemistry.** Prerequisites: General biology (BIOL 1110 and 1120), microbiology (BIOL 2230), general chemistry (CHEM 1110, 1111, 1120, and 1121), and organic chemistry (CHEM 2030 or 3010), or consent of instructor. Survey of the physiology and biochemistry of prokaryotic and eukaryotic microorganisms. Two three-hour blocks of lecture/lab.
- 4750 Plant Biotechnology.** Four credits. Prerequisites: BIOL 1110, 1120, 2120. Processes and reasoning behind the human manipulation of plant species for agricultural and technological purposes. Topics include traditional breeding techniques, tissue culture, plant cell transformation, and general plant molecular biology techniques as well as current debate over genetically modified organisms. Three hours of lecture and three hours of lab.
- 4760 Introduction to Bioinformatics.** Four credits. Prerequisites: BIOL 1110, 1120, and CSCI 1170 or consent of instructor. Application of computer science to biological questions. Specifically applies to the computational aspects of data gathering, processing, storage, analysis, and visualization methods for use in revising and testing biological hypotheses. Students should have a strong background in either computer science or biology, be willing to learn about the other field in an accelerated fashion, and be willing to work cooperatively as part of an interdisciplinary team. Three hours of lecture/problem-solving per week.

### Gulf Coast Research Laboratory

MTSU is an affiliate of the Gulf Coast (Miss.) Research Laboratory. Marine biology courses may be taken at the Station during the summer and the credits transferred to MTSU. Summer course offerings are as follows:

BOT	331	Coastal Vegetation. Three credits.
BOT	341	Marine Botany. Four credits.
BOT	441	Salt Marsh Plant Ecology. Four credits.
CH	461	Marine Chemistry. Six credits.
GEO	431	Coastal Marine Geology. Three credits.
MIC	452	Marine Microbiology. Five credits.
MS	400	Special Problems in Marine Science. One-six credits.
MS	405	Special Topics in Marine Science. One-six credits.
MSE	431	Marine Science for Teachers I. Three credits.
MSE	432	Marine Science for Teachers II. Three credits.
MSE	433	Marine Science for Elementary Teachers. Three credits.
OCE	251	Oceanography I. Five credits.
OCE	252	Oceanography II. Five credits.
ZO	141	Introduction to Marine Zoology. Four credits.
ZO	361	Marine Invertebrate Zoology. Six credits.
ZO	362	Marine Vertebrate Zoology and Ichthyology. Six credits.
ZO	408	Comparative Histology of Marine Organisms. One-six credits.
ZO	442	Marine Fisheries Management. Four credits.
ZO	443	Behavior and Neurobiology of Marine Animals. Four credits.
ZO	447	Fauna and Faunistic Ecology of Tidal Marshes. Four credits.
ZO	448	Early Life History of Marine Fishes. Four credits.
ZO	452	Marine Ecology. Five credits.
ZO	464	Aquaculture. Six credits.

### Honors College

The Department of Biology offers the following courses in Honors:

BIOL	1030	(Fall/Spring Semester)
BIOL	1110	(Fall/Spring Semester)
BIOL	1120	(Spring Semester)
BIOL	2120	(Fall Semester)
BIOL	2230	(Spring Semester)
BIOL	3160	(Spring Semester of even-numbered years)

### Graduate Study

The Master of Science is offered in Biology. Requirements for this degree and a list of the courses offered for graduate credit are published in the Graduate Catalog.

# Department of Chemistry

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**Earl F. Pearson, Chair**  
**Davis Science Building 239**

**Bonicamp, Burden, Chong, Clark, DiVincenzo, Dunlap, Friedli, Howard, Ilsley, Iriarte-Gross, Kline, Koritsanszky, Lee, MacDougall, Melton, Ooi, D. Patterson, P. Patterson, Phelps, Sanger, Stewart, White, Wilson, Wulfsberg**

The Department of Chemistry has as its objectives preparation and training in both scientific principles and skills for chemists seeking industrial or governmental employment; students planning graduate study in the sciences or advanced professional courses of study in medicine or engineering; science teachers in public or private schools; and for students wishing to meet institutional requirements in chemistry.

Programs in the department lead to the Bachelor of Science degree with majors or concentrations in Professional Chemistry, Chemistry, or Science. The Professional Chemistry Program does not require a minor, and the other programs require a minor of at least 18 semester hours. Minors are also offered in Chemistry and Science. In addition, pre-professional programs for cytotechnology, dentistry, dental hygiene, health information management, medicine, medical technology, nuclear medicine technology, occupational therapy, pharmacy, physical therapy, and radiation therapy technology are offered under the Health Sciences concentration.

Environmental Science and Technology is an interdisciplinary major and minor offered by Agribusiness and Agriscience, Biology, Chemistry, and Engineering Technology and Industrial Studies. A complete description of the program can be found under the Department of Engineering Technology and Industrial Studies.

A grade of C or better is required on all transfer credits accepted as part of a major or minor in the Department of Chemistry. Students must have a grade point average of at least 2.00 on courses counting toward a major or minor in any of the department's programs. No more than 8 hours of 1000-level chemistry, 8 hours of 1000-level biology, or 8 hours of 2000-level physics courses may count toward a Chemistry or Science major or minor. No 1000-level physics course may count toward a Science major or minor.

Laboratory safety is of primary importance in the Department of Chemistry. Students are required to follow **all** laboratory safety rules, a statement of which will be provided to all students at the first laboratory period.

**Approved safety goggles must be worn at all times while in the laboratory.** Failure to comply with any of the laboratory rules may result in the student's removal from the laboratory for that laboratory period. Continued violation of safety rules can result in the withdrawal of the student from the course.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

## Major in Chemistry, Professional Concentration

The Professional Chemistry concentration in the Chemistry major, approved by the American Chemical Society, consists of 48 semester hours in chemistry including CHEM 1110, 1120, 2230, 3010, 3020, 3530 or 4500, 4230, 4350, 4360, 4400, 4410, and 4430, plus at least 4 hours (including one hour of laboratory) from CHEM 4100, 4700/4780, 4730, 4000, 4510/4530, 4880, 4600, or 4610; mathematics through MATH 1920; MATH 3110 or PHYS 3150; PHYS 2010, 2011, 2020, 2021 (or 2110, 2111, 2120, 2121); BIOL 1110, 1120; at least 3 hours of computer science approved by advisor; and fulfillment of University General Education requirements. A minimum of 12 upper-division hours in the Chemistry major must be taken at MTSU. No minor is required for this major.

### Recommended Sequence

FRESHMAN		SOPHOMORE	
CHEM 1110 (Nat Sci)	4	CHEM 2230, 3010, 3020	13
CHEM 1120	4	PHYS 2010/2011, 2020/2021	8
MATH 1730 (Math)	4	MATH 1920	4
MATH 1910	4	ENGL 2020 or 2030 or	
BIOL 1110 (Nat Sci)	4	HUM 2610 (Hum/FA)	3
BIOL 1120	4	CSCI (approved by advisor)	3
ENGL 1010, 1020 (Comm)	6		<b>31</b>
	<b>30</b>		

### JUNIOR

CHEM 4400, 4350, 4360, (3530 or 4500)	14	CHEM 4230, 4410, 4430	9
COMM 2200 (Comm)	3	CHEM concentration	4
HIST 2010, 2020, or 2030	6	upper-division electives	4
MATH 3110 or PHYS 3150	4	Humanities and/or Fine Arts	3
Humanities and/or Fine Arts	3	Social/Behavioral Sciences	6
	<b>30</b>	(2 prefixes)	4
		Electives	4
		Upper-division elective	3
			<b>29</b>

## Major in Chemistry

The Chemistry major consists of 36 semester hours in chemistry including CHEM 1110, 1120, 2230, 3010, 3020, 4330, 4340 (or 4350, 4360), and at least 7 hours from among the upper-division electives: CHEM (3530 or 4500), 4000, 4400, 4100, (4700 or 4780), 4600, (4630 or 4230), and PSCI 4080. Also required are MATH 1910; PHYS 2010, 2011, 2020, 2021; BIOL 1110, 1120; and fulfillment of University General Education requirements. A minimum of 12 upper-division hours in the Chemistry major must be taken at MTSU.

*NOTE: Students who wish to get jobs as chemists are strongly encouraged to take additional upper-division courses, especially CHEM 4630, follow the plan for the professional major, or take more advanced chemistry courses upon graduation. The Chemistry major requires one minor of at least 18 hours. Students who plan to graduate with no more than 120 hours should consult their advisors to be sure 42 upper-division hours are included in their curriculum.*

### Recommended Sequence

FRESHMAN		SOPHOMORE	
CHEM 1110 (Nat Sci)	4	CHEM 2230, 3010, 3020	13
CHEM 1120	4	PHYS 2010/2011, 2020/2021	8
MATH 1730 (Math)	4	Minor	3
MATH 1910	4	ENGL 2020 or 2030 or	
BIOL 1110 (Nat Sci)	4	HUM 2610 (Hum/FA)	3
BIOL 1120	4	Upper-Division Elective	3
ENGL 1010, 1020 (Comm)	6		<b>30</b>
	<b>30</b>		

### JUNIOR

CHEM 4330, 4340	8	CHEM concentration	7
COMM 2200 (Comm)	3	upper-division electives	7
HIST 2010, 2020, or 2030	6	Humanities and/or Fine Arts	3
Minor	10	Social/Behavioral Sciences	3
Humanities and/or Fine Arts	3	(2 prefixes)	6
	<b>30</b>	Minor	5
		Upper-division electives	9
			<b>30</b>

## Minor in Chemistry

The minor in Chemistry consists of 19 semester hours of chemistry, including CHEM 1110 and 1120 with a maximum of 8 hours in freshman-level chemistry. At least four upper-division hours must be taken at MTSU.

## Teacher Licensure in Chemistry (7-12)

Students seeking a license to teach chemistry in secondary schools (grades 7-12) must complete (1) a major in Chemistry, (2) a minor in Secondary Education, and (3) a course (PSCI 1030) in addition to the General Education requirements.

## Secondary Education Minor Requirements

Students must contact their Secondary Education minor advisors for approval of appropriate courses.

*NOTE: The Secondary Education minor has been revised. Please see page 193 and contact the Educational Leadership Department for information.*



## Teacher Licensure in Interdisciplinary Studies (K-6)

Students may become licensed to teach in grades K-6 including science by following the Interdisciplinary Studies major. The science and math courses required are PSCI 1030 and 4030; BIOL 1030 and 3000; GEOL 1030; and MATH (1010 or 1710), 1410, 1420, and 4010. See other requirements for majors in the Elementary and Special Education Department section.

## Major in Science

The major in Science has two concentrations—General Science and Health Science. A minimum of 9 semester hours of upper-division courses in either concentration of the Science major must be taken at MTSU. The Science major requires only one minor which must include at least 3 semester hours at the upper-division level taken at MTSU.

### Concentration: General Science

The General Science concentration is a broad-based science degree requiring 19 semester hours acceptable for a minor in each of two fields selected from biology, chemistry, and physics plus 8 semester hours from the third field. Each student should work closely with his/her advisor in completing the program for the General Science concentration.

#### Recommended Sequence

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
CHEM 1110 (Nat Sci)	4	Science major electives	8
CHEM 1120	4	PHYS 2010/2011, 2020/2021	8
MATH 1730 (Math)	4	Electives/Minor	11
MATH 1910	4	ENGL 2020 or 2030 or	
BIOL 1110 (Nat Sci)	4	HUM 2610 (Hum/FA)	3
BIOL 1120	4		<b>30</b>
ENGL 1010, 1020 (Comm)	6		
	<b>30</b>		
<b>JUNIOR</b>		<b>SENIOR</b>	
Science major electives	8	Science major electives	6
COMM 2200 (Comm)	3	Humanities and/or Fine Arts	3
HIST 2010, 2020, or 2030	6	Electives/Minor	15
Electives/Minor	10	Social/Behavioral Sciences	
Humanities and/or Fine Arts	3	(2 prefixes)	6
	<b>30</b>		<b>30</b>

### Concentration: Health Science

The Health Science concentration is for students who expect to enter a professional school after completing an appropriate pre-professional curriculum. There are three groups of programs. One group leads to an MTSU degree through completion of three years of the program at MTSU, acceptance into a professional school, and successful completion of one year. These programs are referred to as three-and-one programs and result in a bachelor's degree in science from MTSU with a health science concentration. Some programs listed under health science are designed for transfer only and do not lead to a degree from MTSU while other programs require completion of a baccalaureate degree prior to entrance.

Admission to the MTSU pre-professional program does not assure admission to a professional program. In the beginning of the third year, the student should make application to the program of choice, following the procedures of the particular program. Selection for admission is competitive and is made by the admissions committee of the respective program according to their selection standards.

The limits on class size in most of the professional programs may prevent acceptance of some qualified applicants. In the event a first application is unsuccessful, the program may be easily changed to a Chemistry or Biology major leading to a B.S. degree, and then application may be made a second time.

Students should note the following:

**Chemistry**—Students with a weak background or no high school chemistry should enroll in CHEM 1010 before taking CHEM 1110.

**Mathematics**—Mathematics is not required for entrance into medical school, dental school, or pharmacy school; however, mathematics is necessary for physics which is required. MATH 1710 and 1720 provide the minimum math preparation; good students are advised to take MATH 1730 and 1910.

**Irregularities**—Advanced placement, remedial courses, failure of required courses, or summer school may cause some students to deviate from the sequence in the recommended curriculum. Regular consultation with the advisor is most important.

**Advisors**—Advisors to these programs are assigned in the Clara Todd Pre-professional Health and Science Advising Center located in the Chemistry Department. The advisor will provide a curriculum sheet as a guide for the program. Guidance is provided on the recommended courses and procedures to be followed in leading to applications to a professional program. A pre-professional evaluation committee aids the students in providing recommendations requested by the professional programs.

**Degree from MTSU**—Students who plan to obtain degrees from MTSU must file the Intent to Graduate Form.

### Minor in Science

The minor in Science consists of 24 semester hours: 16 hours in biology, chemistry, or physics, and 8 semester hours in one of the other two. At least 4 upper-division hours in a science must be taken at MTSU. Consult your advisor to determine which courses will satisfy minor requirements.

### Pre-medical Curriculum

#### (Including optometry, osteopathy, podiatry, or chiropractic)

The pre-medical curriculum prepares students to make application to all of the medical schools in Tennessee and most of the medical schools in the United States. A student planning to enter a medical school in another state is expected to supply the advisor with a catalog from the school under consideration. Students who plan to apply for admission to a school of optometry, osteopathy, podiatry, or chiropractic should follow this general pre-medical curriculum.

**Recommended Curriculum****FRESHMAN**

CHEM 1110 (Nat Sci)	4
CHEM 1120	4
BIOL 1110 (Nat Sci)	4
BIOL 1120	4
ENGL 1010, 1020 (Comm)	6
MATH 1910 (Math)	4
COMM 2200 (Comm)	3
Humanities and/or Fine Arts	3
<b>32</b>	

**JUNIOR**

CHEM 3020	4
CHEM 3530 or 4500	4
BIOL 3020, 4210	8
HIST 2010, 2020, or 2030	6
Social/Behavioral Sciences (2 prefixes)	6
Upper-division elective	1
<b>29</b>	

**NOTE:** Electives must be selected carefully in order to assure meeting institutional requirements for graduation: (1) completion of General Education requirements; (2) completion of a minor; (3) completion of a minimum 42 semester hours of upper-division work (courses numbered 3000 and above).

**Pre-physical Therapy Curriculum**

The following curriculum is proposed for students planning to make application to the physical therapy program in the College of Allied Health Sciences at the University of Tennessee-Memphis. Students are encouraged to complete a baccalaureate degree prior to entering a physical therapy (PT) school. Consult your advisor. Since different schools have different prerequisites, curriculum guide sheets for this and other PT schools in Tennessee should be obtained from the coordinator of pre-professional advising. At that time, a pre-physical therapy advisor is assigned. *Frequent contact with the advisor is essential to being properly prepared for application to the professional schools.* Volunteer work in physical therapy is required. A student intending to apply to other schools should obtain admission packets from them and consult with his or her advisor.

**Recommended Curriculum****FRESHMAN**

BIOL 1110, 1120	8
ENGL 1010, 1020	6
CHEM 1110, 1120	8
MATH 1730	4
Courses from major*	

**NOTE:** Other prerequisite courses: PSY 3020 (3 hrs.) or MATH 1530 (3 hrs.), CSCI 1150 (3 hrs.) or INFS 2200 (3 hrs.), HIST 2010, 2020 (6 hrs.), and COMM 2200 (3 hrs.)

Student must obtain an advisor for the physical therapy program who helps select a major in addition to meeting prerequisites for physical therapy requirements. The advisor will assist in selecting elective courses. UT-M requires 9 hours of social science which should be taken from MTSU General Education requirements or courses necessary to meet requirements of other PT programs. Some suggested courses are PSY 4190, 4210, 3230, 3590; ANTH 2010; SOC 1010; PHIL 1030, 2110; ECON 2410. Other elective courses should be selected from BIOL 3010, 3020, 4130 or other **approved** biology or chemistry courses. Other suggested elective courses are PHED 4830 and 4910.

**SOPHOMORE**

CHEM 2230	5
CHEM 3010	4
BIOL 2120, 2230	8
PHYS 2010/2011, 2020/2021	8
ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
Humanities and/or Fine Arts	3
<b>31</b>	

**SENIOR**

Professional program credits (granted upon successful completion of first year of approved program)	30
<b>30</b>	

**Three-and-One Programs**

The following are programs that lead to an MTSU degree: pre-cytotechnology, pre-dental, pre-medical technology, pre-pharmacy, pre-nuclear medicine technology, and pre-radiation therapy technology.

Since acceptance into dental or pharmacy school after three years is highly competitive, most students complete the specified pre-dental or pre-pharmacy curriculum then complete a fourth year at MTSU which will lead to a bachelor's degree in biology, chemistry, or science.

General requirements for a degree under this concentration:

1. Complete the specified three-year pre-professional curriculum consisting of at least 90 hours.
  2. Apply to, be accepted in, and successfully complete either one year (30 hours) in the professional school or one year of an approved clinical or laboratory school (for which 30 hours will be granted).
  3. Each program will require a minimum of 35 hours of science (biology, chemistry, physics).
  4. Twenty-one (21) upper-division hours from MTSU of which 12 must be in science as approved by the advisor.
- NOTE:** Any hours granted for laboratory experience do not apply to these 21 upper-division hours.
5. The last 30 semester hours of MTSU coursework must be in residence at MTSU.

**Pre-cytotechnology Curriculum (CT)**

The curriculum outlined for the Medical Technology program may be followed at MTSU; after successful completion of a program in a nationally accredited cytotechnology school, a B.S. degree from MTSU can be received.

**Recommended Curriculum****FRESHMAN**

CHEM 1110 (Nat Sci)	4
CHEM 1120	4
BIOL 1110 (Nat Sci)	4
BIOL 1120	4
ENGL 1010, 1020 (Comm)	6
MATH 1710 (Math)	3
PHYS 2010/2011 or 1300	4
COMM 2200 (Comm)	3
<b>32</b>	

**SOPHOMORE**

CHEM 3010, 3020 or CHEM 2030, 3530	8
BIOL 2120, 2230	8
HIST 2010, 2020, or 2030	6
ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
Humanities and/or Fine Arts (2 prefixes)	6
<b>31</b>	

**JUNIOR**

CHEM elective*	3
BIOL 4110, 4300	8
BIOL elective	3
Social/Behavioral Sciences (2 prefixes)	6
Electives*	7
<b>27</b>	

**SENIOR**

Professional program credits (granted upon completion of first year of approved program)	30
<b>30</b>	

\*Total upper-division hours must equal at least 21; total of 90 hours prior to professional program.

**Pre-dental Curriculum**

The following curriculum is proposed for students planning to enter the College of Dentistry at the University of Tennessee-Memphis and will meet the requirements for a B.S. degree from MTSU upon successful completion of one year in dental school. See page 57 for specific requirements.

**NOTE:** Many applicants find that a B.S. degree is required to be competitive for acceptance; therefore, most pre-dental students usually pursue a Chemistry major and Biology minor or vice versa.

### Recommended Curriculum

FRESHMAN		SOPHOMORE	
CHEM 1110 (Nat Sci)	4	CHEM 2230	5
CHEM 1120	4	CHEM 3010	4
BIOL 1110 (Nat Sci)	4	PHYS 2020/2021	4
BIOL 1120	4	BIOL 2120	4
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
MATH 1910 (Math)*	4	HUM 2610 (Hum/FA)	3
PHYS 2010/2011	4	HIST 2010, 2020, or 2030	6
	<b>30</b>	COMM 2200 (Comm)	3
			<b>29</b>
JUNIOR		SENIOR	
CHEM 3020	4	Professional program	
CHEM 3530	4	credits (granted upon	
BIOL 3020, 4130	8	successful completion of	
Humanities and/or Fine Arts		first year of approved	
(2 prefixes)	6	program)	30
Social/Behavioral Sciences			<b>30</b>
(2 prefixes)	6		
Upper-division elective	3		
	<b>31</b>		

\*Prerequisite to MATH 1910 is MATH 1730 or MATH ACT greater than or equal to 26.

**NOTE 1:** Total of 90 hours prior to professional program. Total upper-division hours must equal at least 21.

**NOTE 2:** Additional courses elected must satisfy the requirements for 42 upper-division hours (21 for the three-and-one program); 120 total hours for graduation (90 for the three-and-one program), and for the B.S. degree (but not for the three-and-one program) major and minor.

### Pre-medical Technology Curriculum (MT)

The medical technology degree program requires the successful completion of three years (minimum of 90 semester hours) academic work followed by a minimum of 12 months (30 semester hours or equivalent) in a medical technology program approved by a national accrediting agency and by Middle Tennessee State University. The academic program must fulfill all General Education requirements for a B.S. degree, include at least 24 semester hours of courses numbered 3000 or above, and at least the last two semesters (30 semester hours) must be in residence at MTSU. All other requirements for graduation given elsewhere in this catalog must be met. Specific course requirements are shown below.

Upon approval, a student with the MLT certification from a nationally accredited program at a community college or from any other nationally accredited MLT program may enroll at MTSU, follow the academic part of the medical technology curriculum, fulfill MTSU requirements for graduation, and receive credit (30 semester hours for programs with credit hours not assigned) for the MLT clinical work to be applied toward the B.S. degree. In addition to appropriate MLT certification, three years of full-time clinical laboratory experience are required, in accordance with state and national regulations.

### Recommended Curriculum

FRESHMAN		SOPHOMORE	
CHEM 1110 (Nat Sci)	4	CHEM 3010, 3020	8
CHEM 1120	4	BIOL 2120, 2230	8
BIOL 1110 (Nat Sci)	4	HIST 2010, 2020, or 2030	6
BIOL 1120	4	ENGL 2020 or 2030 or	
ENGL 1010, 1020 (Comm)	6	HUM 2610 (Hum/FA)	3
MATH 1710 (Math)	3	COMM 2200 (Comm)	3
PHYS 2010/2011 or 1300	4	Humanities and/or Fine Arts	3
	<b>29</b>		<b>31</b>
JUNIOR		SENIOR	
CHEM 3530	4	Professional program	
BIOL 4110, 4300	4	credits (granted upon	
BIOL upper-division elective*	8	successful completion	
Humanities and/or Fine Arts	3	of first year of approved	
Social/Behavioral Sciences		program)	30
(2 prefixes)	6		<b>30</b>
Electives	5		
	<b>30</b>		

Total of 90 hours prior to professional program.

\*At least 1 hour must be upper division; total upper-division hours must equal at least 21.

### REGISTRATION PROCEDURE FOR THE FOURTH YEAR

Upper-division forms must have been completed and approved by the dean, College of Basic and Applied Sciences, at the end of the second year. After acceptance to an accredited medical technology program, the student will be considered registered for the professional year when the following procedures are completed:

1. A letter of recommendation is sent from the faculty advisor to the dean, College of Basic and Applied Sciences, stating the name of the program, the program being taken during the senior year, and dates of beginning and completion of the program.
2. Approval is given by the dean, College of Basic and Applied Sciences, of the advisor's recommendation by letter, authorizing the student to attend the program indicated. Copies of the letters are sent to the Records Office, to the advisor, and to the professional program.
3. An Intent to Graduate Form is filed by the student in the Records Office at the beginning of the semester **before** the semester in which graduation is expected.

### AFFILIATED MEDICAL TECHNOLOGY PROGRAMS

1. Vanderbilt Medical Center, Program of Medical Technology, Nashville, Tennessee
2. TSU-Meharry, Program of Medical Technology, Nashville, Tennessee
3. Austin Peay State University, Program of Medical Technology, Clarksville, Tennessee

Acceptance of work from non-affiliated schools may also be arranged on an individual student basis.

### Pre-pharmacy Curriculum

The following curriculum is proposed for students planning to enter pharmacy school after three years of study at MTSU. Well-prepared students with advanced placement credits may be able to complete pharmacy admission requirements in two years and should consult with their advisors regarding course selection. The course schedule below meets prerequisites for the Pharm.D. programs at the University of Tennessee at Memphis, Samford University, and Mercer University. Students planning to enter other schools of pharmacy should consult regularly with their advisors and choose courses required by the particular school.

**Recommended Curriculum****FRESHMAN**

CHEM 1110 (Nat Sci)	4
CHEM 1120	4
BIOL 1110 (Nat Sci)	4
BIOL 1120	4
MATH 1910 (Math)	4
PHYS 2010/2011	4
ENGL 1010, 1020 (Comm)	6

**30****SOPHOMORE**

CHEM 3010, 3020	8
BIOL 2010, 2020	8
MATH 1530	3
ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
PSY 1410 (Soc/Beh Sci)	3
COMM 2200 (Comm)	3
HIST 1010, 1020, 1110, or 1120 (Hum/FA)	3

**31****JUNIOR**

CHEM 4500, 4510, 4530	8
BIOL 2230	4
BIOL 4300	4
HIST 2010, 2020, or 2030	6
ECON 2410 (Soc/Beh Sci)	3
Humanities and/or Fine Arts	3
Upper-division elective	1

**29****SENIOR**

Professional program credits (granted upon successful completion of first year of approved program)	30
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**30**

Total of 90 hours prior to professional program. Total upper-division hours must equal at least 21.

**Pre-nuclear Medicine Technology**

The Nuclear Medicine Technology degree program requires a successful completion of three years (minimum of 90 semester hours) academic work at MTSU followed by a minimum of 12 months (30 semester hours or equivalent) in a nuclear medicine technology program approved by a national accrediting agency and by Middle Tennessee State University. The academic program must fulfill all General Education requirements for a B.S. degree, include at least 21 semester hours of courses numbered 3000 or above, and at least the last two semesters (junior year, 30 semester hours) must be in residence at MTSU. All other requirements for graduation given elsewhere must be met.

**Recommended Curriculum****FRESHMAN**

CHEM 1110 (Nat Sci)	4
CHEM 1120	4
BIOL 2010 (Nat Sci)	4
BIOL 2020	4
MATH 1730 or 1910 (Math)	4
ENGL 1010, 1020 (Comm)	6
PSY 1410 (Soc/Beh Sci)	3
Elective	1

**30****SOPHOMORE**

CHEM 3010, 3020 or 2030, 3530	8
PHYS 2010/2011, 2020/2021	8
HLTH 3300	3
ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
HIST 2010, 2020, or 2030	6
COMM 2200 (Comm)	3

**31****JUNIOR**

BIOL 2230, 3340, 4150	10
CSCI 1000	1
PHYS 3330	3
Humanities and/or Fine Arts (2 prefixes)	6
PSY 4650	3
SOC 4040	3
Social/Behavioral Sciences	3

**29****SENIOR**

Professional program credits (granted upon successful completion of first year of approved program)	30
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**30**

Total of 90 hours prior to professional program. Total upper-division hours must equal at least 21.

**Pre-radiation Therapy Technology Curriculum**

The Radiation Therapy Technology degree program requires a successful completion of three years (minimum of 90 semester hours) academic work at MTSU followed by a minimum of 12 months (30 semester hours or equivalent) in a radiation therapy technology program approved by a national accrediting agency and by Middle Tennessee State University. The academic program must fulfill all General Education requirements for a B.S. degree, include at least 21 semester hours of courses numbered 3000 or above, and at least the last two semesters (junior year, 30 semester hours) must be in residence at MTSU. All other requirements for admission given elsewhere must be met.

**Recommended Curriculum****FRESHMAN**

ENGL 1010, 1020 (Comm)	6
CHEM 1110 (Nat Sci)	4
MATH 1730	4
MATH 1530 (Math)	3
HIST 2010, 2020, or 2030	6
COMM 2200 (Comm)	3
HUM 2130	3

**29****SOPHOMORE**

Social/Behavioral Sciences	3
PHYS 2010/2011, 2020/2021	8
BIOL 2010 (Nat Sci)	4
BIOL 2020	4
HLTH 3300	3
HLTH 4270	3
N FS 1240	3
PSY 1410 (Soc/Beh Sci)	3

**31****JUNIOR**

BIOL 2230, 3340, 4150	10
CSCI 1150	3
PHYS 3330	3
PSY 4650 or SOC 4040	3
HLTH 4280	2
Humanities and/or Fine Arts (2 prefixes)	6
ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3

**30****SENIOR**

Professional program credits (granted upon successful completion of first year of approved program)	30
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**30**

Total of 90 hours prior to professional program. Total upper-division hours must equal at least 21.

**Other Transfer Programs**

The following programs do not lead to an MTSU degree: pre-dental hygiene, pre-health information management, and pre-occupational therapy. Students apply to the professional school during the second or third year.

**Pre-dental Hygiene Curriculum**

The following curriculum is proposed for students planning to make application to the dental hygiene program in the College of Allied Health Sciences at the University of Tennessee-Memphis. Students who plan to apply for admission to other schools of dental hygiene should consult their advisors.

**Recommended Curriculum****FRESHMAN**

BIOL 1110	4
BIOL 1120 (recommended)	4
ENGL 1010, 1020	6
CHEM 1010, 1020	8
SOC 1010, 2010	6
PSY 1410, 1420	6

**34****SOPHOMORE**

BIOL 2010, 2020, 2230	12
COMM 2200	3
HIST 2010, 2020	6
ENGL 2030	3
Electives*	6

**30**

\*The advisor should be consulted for elective recommendations.



### Pre-health Information Management Curriculum

The pre-health information management curriculum below is recommended for students planning to enter the health information management program at Tennessee State University. Information pertaining to pre-health information management is available in DSB 241.

To gain the best first-hand knowledge about health information management, you should contact health information managers (medical record administrators), visit their facilities, and talk to them directly. Working in an office of health information management on a paid or volunteer basis is recommended.

#### Recommended Curriculum

FRESHMAN		SOPHOMORE	
BIOL 1110, 1120	8	BIOL 2010, 2020	8
ENGL 1010, 1020	6	ENGL 2030	3
PSY 1410	3	SOC or HIST or ECON	6
PSY elective*	3	COMM 2200	3
MATH 1710	3	PSY 3020	3
Electives*	6	HUM 2130	3
	<b>29</b>	Electives*	5
			<b>31</b>
JUNIOR			
INFS 2200 or 3100	3		
BMOM 3010	3		
BLAW 3400	3		
BMOM 3510	3		
BMOM 4350	3		
MGMT 3610	3		
Electives*	12		
	<b>30</b>		

\*For admission to University of Tennessee-Memphis, a minimum of fifteen (15) upper-division hours is required. The business courses and statistics courses listed above satisfy this requirement.

### Pre-occupational Therapy Curriculum

The following curriculum is proposed for students planning to enter the occupational therapy program at the College of Allied Health Sciences, University of Tennessee-Memphis. The program requires three (3) years of study (90 semester hours) at MTSU followed by two calendar years at UT-Memphis. While a bachelor's degree is not required, students are encouraged to obtain a bachelor's degree before attending the occupational therapy program at UT-Memphis. Successful completion of the program will entitle the student to receive a Master of Science degree in occupational therapy granted by UT-Memphis.

Students who plan to apply for admission to other schools of occupational therapy should consult with their advisors.

#### Recommended Curriculum

FRESHMAN		SOPHOMORE	
BIOL 1110, 1120	8	BIOL 2010, 2020	8
ENGL 1010, 1020	6	SOC 1010	3
Social Sciences elective	3	CSCI 1150	3
CHEM 1110*	4	PHYS 2010/2011	4
PSY 1410	3	PSY 2300, 3230	6
COMM 2200	3	HUM 2130	3
Elective**	3	ANTH 2010	3
	<b>30</b>		<b>30</b>

JUNIOR	
HUM 2130	3
PSY 3020	3
Humanities elective (note)	9
Electives**	15
	<b>30</b>

**NOTE:** Ninety semester hours must be completed prior to matriculation to include additional hours from ANTH (3), Social Sciences (3), and 9 hours of humanities.

\*Students with a weak background in chemistry should take CHEM 1010 before taking CHEM 1110.

\*\*Recommended electives: computer/technology skills, kinesiology, education, technical or critical writing, fine and performing arts, language and communication systems, philosophy, and up to 4 hours in industrial arts or activity-based courses (e.g., woodworking, ceramics, photography).

### Courses in Chemistry [CHEM]

**1010 Introductory General Chemistry I.** Four credits. For students with no prior courses in chemistry; to be taken before CHEM 1110. Fundamental concepts of chemistry: measurements, matter, chemical bonds, chemical reactions, nuclear chemistry, states of matter, solutions, and electrolytes. Three hours of lecture and one three-hour laboratory. Will not count toward a major or minor in Chemistry.

**1020 Introductory General Chemistry II.** Four credits. Prerequisite: CHEM 1010. Topics include hydrocarbons, organic functional groups, isomerism, carbohydrates, lipids, nucleic acids and proteins, enzymes, and metabolism. Three hours of lecture and one three-hour laboratory. Will not count toward a major or minor in Chemistry.

**1030 Chemistry for Consumers.** Four credits. Language, development, structure, and role of chemistry as it relates to the knowledge and activities of the educated person. Examples will be taken from medicine and human health, environmental pollution, energy and its costs, etc. Understanding of the relationship between chemistry and society will be enhanced using special subtopics: lectures, demonstrations, and inquiry-based laboratory work drawing from the expertise of the individual instructor. For non-science majors. Three hours lecture and one two-hour laboratory. **(Does not count toward any major or minor.)**

**1110 General Chemistry I.** Four credits. Prerequisites: High school chemistry; CHEM 1010 and 1011 or equivalent. Fundamental concepts of atomic structure, molecular structure and bonding, chemical reactions, stoichiometric relationships, periodic properties of the elements, thermochemistry, and properties of gases. Three hours of lecture and one three-hour laboratory.

**1120 General Chemistry II.** Four credits. Prerequisites: CHEM 1110 and 1111. Chemical equilibrium, solid and liquid states of matter, chemistry of acids and bases, principles of chemical kinetics, precipitation reactions, elementary thermodynamics, electrochemistry, and nuclear chemistry. Three hours of lecture and one three-hour laboratory.

**2030 Elements of Organic Chemistry.** Four credits. Prerequisites: CHEM 1020 and 1021 or 1120 and 1121. Aspects of organic chemistry fundamental to an understanding of reactions in living organisms. Three hours lecture and one three-hour laboratory.

- 2230 Quantitative Analysis.** Five credits. Prerequisites: CHEM 1120 and 1121. Gravimetric and volumetric determinations, an introduction to optical and electrical methods of analysis, and the stoichiometry of analytical chemistry. Three hours lecture and two three-hour laboratories.
- 2880 Undergraduate Research I.** One to four credits. Prerequisite: Permission of the instructor. Student research allied with the instructor's research or designed specifically for the particular student. Minimum of three clock-hours work per week required for each credit hour. Counts for elective hours toward graduation but does not count for a major or minor in Chemistry. May be repeated for a total of four credits.
- 2930, 2940 Cooperative Education.** Three credits. Provides students with opportunities for on-the-job training in conjunction with on-campus academic experiences. Department chair should be consulted. Pass/Fail.
- 3010 Organic Chemistry I.** Four credits. Prerequisites: CHEM 1120 and 1121 or equivalent. Types of carbon compounds, their nomenclature, reactions, and physical properties. Three hours lecture and one three-hour laboratory.
- 3020 Organic Chemistry II.** Four credits. Prerequisite: CHEM 3010. A continuation of CHEM 3010. Three hours lecture and one three-hour laboratory.
- 3530 Principles of Biochemistry.** Four credits. Prerequisite: CHEM 2030 or 3020. Structure, properties, and functions of carbohydrates, lipids, and proteins and their reactions in living organisms. Three-hour lecture and one three-hour laboratory.
- 3880 Undergraduate Research II.** One to four credits. Prerequisites: CHEM 2230 and permission of the instructor. Student research allied with the instructor's research or designed specifically for the particular student. Minimum of three clock-hours work per week required for each credit hour. Summary report or some other form of presentation required. A total of no more than four credit hours of CHEM 3880, CHEM 4880, or PSCI 4080 may be counted toward a major in Chemistry. May be repeated for a total of four credits.
- 3890 Chemistry Instruction Internship.** One to three credits. Prerequisites: Successful completion of target courses and permission of instructor. A course to refine thinking, communication, and interpersonal skills through exposure to on-the-spot technical questions and a laboratory teaching experience as an assistant in an introductory chemistry laboratory. Course credits will not count toward a major or minor in Chemistry. May be repeated for a total of three credits.
- 3970, 3980 Cooperative Education.** Three credits. Provides students with opportunities for on-the-job training in conjunction with on-campus academic experiences. Department chair should be consulted. Pass/Fail.
- 4000 Medicinal Chemistry.** Three credits. Prerequisite: CHEM 3010/3020 or CHEM 2030 with permission of instructor. Drug design and development including structural changes involved in making drug analogs. Drug interaction with macromolecular targets including receptors, enzymes, and DNA. Various classes of drugs and their mechanisms for the treatment of specific therapeutic areas.
- 4100 Organic Spectroscopy.** Three credits. Prerequisite: CHEM 3020. Theory of and practice in the interpretation of mass, infrared, Raman, ultraviolet-visible, and nuclear magnetic resonance spectra. Three hours lecture.
- 4230 Instrumental Analysis.** Four credits. Prerequisites: CHEM 2230, 3020, and 4360. Potentiometric titration, polarographic, coulometric, gas chromatographic, ultraviolet, visible and infrared absorption, and atomic absorption techniques of analysis. Requirements and limitations of each technique for obtaining quantitative measurements; applications to various chemical systems from both theoretical and experimental standpoints. Three hours lecture and one three-hour laboratory.
- 4330 Physical Chemistry Fundamentals I.** Four credits. Prerequisites: PHYS 2020 and 2021; CHEM 2230; MATH 1910. Basic study of physical chemistry including modern theories of atomic and molecular structure, chemical thermodynamics, electrochemistry, chemical kinetics, and related theoretical topics. Three hours lecture and one three-hour laboratory.
- 4340 Physical Chemistry Fundamentals II.** Four credits. Prerequisite: CHEM 4330. A continuation of CHEM 4330. Three hours lecture and one three-hour laboratory.
- 4350 Physical Chemistry I.** Four credits. Prerequisites: CHEM 2230; MATH 3310; PHYS 2021 and 2120. Quantitative principles of chemistry involving extensive use of calculus. Thermodynamics, phase changes, chemical equilibria, electrochemistry, reaction kinetics, quantum chemistry, molecule structure, and statistical mechanics. Three hours lecture and one three-hour laboratory.
- 4360 Physical Chemistry II.** Four credits. Prerequisite: CHEM 4350. A continuation of CHEM 4350. Three hours lecture and one three-hour laboratory.
- 4400 Inorganic Chemistry.** Three credits. Prerequisites: CHEM 1120 and 1121 or equivalent; CHEM 2030 or 3010 recommended. The basic concepts and theories of inorganic chemistry and how these are used to predict and understand the physical and chemical properties of compounds of the elements other than carbon. Inorganic compounds in the air, water, earth, and in the laboratory and in biochemistry, geochemistry, and industrial materials and processes.
- 4410 Advanced Inorganic Chemistry.** Three credits. Prerequisites: CHEM 3020 and 4400; prerequisite or corequisite: CHEM 4360. Atomic theory for chemical periodicity; symmetry and group theory; molecular orbital theory; coordination, organometallic, and bioinorganic chemistry of the transition metals.
- 4430 Advanced Synthetic Laboratory Techniques.** Two credits. Prerequisite: CHEM 3020. Techniques for synthesis and purification of organic, organometallic, and inorganic compounds. Practice in the measurement of NMR and IR spectra. Skills in library use for research. Four hours laboratory and one-hour lecture.
- 4500 Biochemistry I.** Three credits. Prerequisite/corequisite: CHEM 3020; not open to those who have had CHEM 3530. Chemical properties of biological molecules such as amino acids, proteins, enzymes, and carbohydrates. Chemical basis of enzyme catalysis and reactions of carbohydrate metabolism.
- 4510 Biochemistry II.** Three credits. Prerequisite: CHEM 4500. Structure and metabolism of lipids, amino acids, nucleotides, and nucleic acids at the molecular level. Emphasis on chemistry of metabolic reactions.
- 4530 Biochemical Techniques.** Two credits. Prerequisite/corequisite: CHEM 4500 or consent of instructor. CHEM 2230 recommended. Laboratory in biochemical techniques with emphasis on protein purification, enzyme kinetics, carbohydrate and lipid

analysis, and manipulation of DNA. One-hour lecture and four hours laboratory.

- 4580 Medical Technology Clinical Practicum.** Six credits. Intensive classroom and laboratory studies covering principles and techniques in the areas of clinical chemistry, microbiology, immunohematology, bloodbanking, and related areas. Pass/Fail.
- 4600 Introduction to Environmental Chemistry.** Three credits. Prerequisites: CHEM 1120 and 1121; CHEM 2030 or 3010; CHEM 2230 strongly recommended. Quality of environment and of chemical changes in the environment through contaminations or modification of the air, water, and soil as they are affected by agricultural, industrial, and social activities. Three hours lecture.
- 4610 Environmental Soil Chemistry.** Three credits. Prerequisites: CHEM 2230 and 3020. Fundamental chemical principles applied to the fate and behavior of organic and inorganic contaminants in the soil-water environment. An overview of the soil medium; will include both the mineral component and the soil organic matter. Interaction between solid and liquid components introduced, followed by contaminant reactions between the phases, including sorption and redox reactions.
- 4630 Detection of Chemical Pollutants.** Four credits. Prerequisites: CHEM 2230 and one semester of organic chemistry or consent of instructor. Theory and practice of analytical chemistry methods used in pollution measurement. Three hours lecture and one three-hour laboratory.
- 4700 Polymers, an Introduction.** Three credits. Prerequisite: CHEM 3020; physical chemistry strongly recommended. Chemistry of polymers; their structure, properties, and applications. Three hours lecture.
- 4730 Advanced Physical Chemistry.** Four credits. Prerequisite: CHEM 4360 or permission of instructor. Modern chemical concepts as applied to the areas of thermodynamics, electrochemistry, and chemical kinetics. Three hours lecture and one three-hour calculation laboratory.
- 4780 Polymer and Materials Chemistry Laboratory.** One credit. Prerequisite: Organic chemistry; physical chemistry strongly recommended. Laboratory introduction to synthesis, kinetics, characterization, engineering, and applications of polymers and other modern materials. To be taken concurrently with CHEM 4700.
- 4800 Technical Writing for Chemists.** One credit. Prerequisite: Completion of undergraduate English requirements. Emphasis on improving communication skills using writing exercises. Students will develop writing skills necessary to transmit technical information effectively, construct persuasive proposals and resumes, and produce clearly written reports of laboratory results.
- 4880 Research.** Four credits. Prerequisites: 24 hours of ACS-approved chemistry courses. Student research allied with the instructor's research or designed specifically for the particular student. Minimum of twelve (12) hours a week. Student must write a formal report which is approved by the instructor to receive credit for this course.

## Courses in Chemical Instrumentation Techniques [CHEM]

- 4190 Mass Spectrometry.** One credit. Prerequisite: CHEM 2230 or consent of instructor. Mass spectrographic analysis emphasizing the use of the instrument in obtaining mass spectral data. Technique of obtaining spectra using gas chromatographic effluents as well as normal sampling procedures. Routine maintenance and an introduction to the interpretation of simple spectra.
- 4380 Nuclear Magnetic Resonance Experimental Methods.** One credit. Prerequisite: CHEM 3020 or 2030. NMR measurements, operation of the spectrometer, and evaluation of the quality of spectra produced.

## Courses in General Physical Science [PSCI]

- 1030 Topics in Physical Science.** Four credits. Language, development, structure, and role of physical science (physics, chemistry, astronomy, and geology) as it relates to the knowledge and activities of the educated person. For non-science majors. Three hours lecture and one two-hour laboratory. **(A General Education course [Nat Sci]. Does not count toward any major or minor.)**
- 3890 Physical Science Instruction Internship.** One credit. Prerequisite: Successful completion of the target course (PSCI 1030) or one semester of chemistry and one semester of physics and permission of instructor. Opportunity to refine thinking, communication, and interpersonal skills through exposure to on-the-spot technical questions and a laboratory teaching experience as an assistant in an introductory physical science laboratory. Course credits will not count toward a major or minor in Chemistry or General Science. May be repeated for up to three credits.
- 4030 Experimental Physical Science.** Four credits. Prerequisite: PSCI 1030. Basic concepts, laws, and principles of astronomy, chemistry, geology, and physics with particular emphasis on the utilization of equipment available or easily improvised in actual school situations to illustrate these concepts, laws, and principles.
- 4080 Problems in Physical Science.** Four credits. Prerequisite: Consent of instructor. A problem from chemistry, physics, or other physical science appropriate to the student's background and interest. A formal written report must be submitted and approved by the instructor to receive credit for this course.

## Honors College

The Department of Chemistry offers the following courses in Honors: CHEM 1110 and 1120 and PSCI 1030. See current class schedule and Honors information in this catalog.

## Graduate Study

The Department of Chemistry offers the Master of Science and Doctor of Arts degrees. The Graduate Catalog has degree requirements and course listings.

# Department of Computer Science

**Richard Detmer, Chair**  
**Kirksey Old Main 306**

**Butler, Cheatham, Cripps, Driscoll, Hankins, Li, Parker, Pettey, Sarkar, Seo, Thweatt, Untch, J. Yoo, S. Yoo**

The Department of Computer Science offers a full range of courses designed to prepare students who plan to enter computing careers in business, government, education, and industry as well as those who plan to enter graduate school. The department emphasizes a blend of theory, abstraction, and design needed to prepare students to meet their future goals.

Programs in the department lead to the Bachelor of Science degree with a major in Computer Science. Students may select a major in Computer Science (ABET/CAC accredited) or a concentration in Business Applications. Only one minor is required for a Computer Science major. In addition, a minor in Computer Science is offered.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60-63.**

## Major in Computer Science

All Computer Science majors are assigned to a faculty advisor through the Computer Science Department office (KOM 306). The student is responsible for seeking the assistance of the advisor. This catalog is not intended to provide the detail necessary for self-advising.

### Core Requirements for all Computer Science Majors

A major in Computer Science consists of 44 semester hours of computer science courses, including

1. a 29-hour core of CSCI 1170, 2170, 3080, 3110, 3130, 3160, 3250, 3420, and 4700;
2. a mathematics core of MATH 1910, 1920, and 2050;
3. an additional math course (3 hours) that can be counted toward a math major;
4. COMM 2200;
5. additional courses as described below.

A maximum of 3 hours in the major may come from CSCI 3970, 4600, and 4910. Credit in secondary computer languages toward the major is limited to 3 hours. In order to take any computer science course having a prerequisite, the student must have earned a grade of C (2.00) or better in the prerequisite. Each course counted for a major in Computer

Science must be completed with a grade of C (2.00) or higher. CSCI 1000, 1150, and 3150 are considered service courses and do not count toward a major or minor.

### Recommended Lower-Division Curriculum

FRESHMAN		SOPHOMORE	
CSCI 1170, 2170	8	CSCI 3080, 3110, 3130,	
MATH 1910 (Math)	4	3160	13
MATH 1920	4	Natural Sciences (2 prefixes)	8
ENGL 1010, 1020 (Comm)	6	MATH 2050	3
COMM 2200 (Comm)	3	ENGL 2020 or 2030 or	
HIST 2010, 2020, or 2030	6	HUM 2610 (Hum/FA)	3
		Social/Behavioral Sciences	3
			<b>30</b>

*One course from Social/Behavioral Sciences and two courses from Humanities and/or Fine Arts must be taken during the junior and senior years to satisfy General Education requirements. Additional Computer Science and supporting courses are also required. Consult your advisor.*

### Major in Computer Science: No Concentration

In addition to the core requirements, students must complete the following for the ABET/CAC-Accredited Computer Science major:

1. CSCI 3210 and 4160;
2. 2-3 hours in an approved high-level language;
3. upper-division computer science electives (6-7 hours);
4. minor to be selected with the approval of the computer science advisor;
5. a minimum of 15 hours of approved mathematics;
6. a two-semester sequence in a laboratory science for Science majors (8 hours);
7. additional hours in science for Science majors and/or courses with strong emphasis on quantitative methods to make a total of at least 12 hours including the 8-hour science sequence required above;
8. a minimum total of 30 hours of approved mathematics and science;
9. 30 semester hours of humanities, social sciences, and other disciplines (excluding science, mathematics, computer science, and physical education).

### Concentration: Business Applications

In addition to the core requirements, students must complete the following for the Business Applications concentration under the Computer Science major:

1. CSCI 4110 and 4560;
2. 9 hours of computer science electives, at least 6 of which are upper division;
3. a minor in either Business Administration or Mathematics. If a minor in Mathematics is chosen, then the following additional business requirements must be taken: ACTG 2110, ECON 2420, FIN 3000, MGMT 3610, and one of ACTG 2120, BLAW 3400, MKT 3820, ACSI 4230, or MGMT 3620.

### Minor in Computer Science

A minor in Computer Science consists of 17 semester hours including CSCI 1170, 2170, and additional courses including 6 hours selected from upper-division computer science with approval of the minor advisor. CSCI 1000, 1150, and



3150 are considered service courses and do not count toward a major or minor. CSCI 3420 does not count toward a Computer Science minor. Credit in secondary computer languages toward a minor is limited to three hours. A GPA of 2.00 is required in the Computer Science minor.

### Class Attendance Policy

The instructor can at his/her own discretion drop a student after two class meetings if the student fails to attend the first two class meetings.

## Courses in Computer Science [CSCI]

**1000 Computer Literacy.** One credit. An introduction to computers at the non-professional level. Major topics include historical development; impact on society; ethics, applications, languages, and terminology with emphasis on personal computers; productivity tools: word processor, spreadsheet, and Internet. Does not count for Computer Science major or minor.

**1150 Computer Orientation.** Three credits. A general introduction to computers with an emphasis on personal computing, database, word processing, presentation graphics, spreadsheets, and Internet tools. Does not count for Computer Science major or minor.

**1170 Computer Science I.** Four credits. Prerequisite: Sufficient background in algebra and trigonometry. The first of a two-semester sequence using a high-level language; language constructs and simple data structures such as arrays and strings. Emphasis on problem solving using the language and principles of structured software development. Three lectures and one two-hour laboratory.

**2170 Computer Science II.** Four credits. Prerequisite: CSCI 1170 or equivalent. A continuation of CSCI 1170. Topics include introductory object-oriented programming techniques, software engineering principles, records, recursion, pointers, stacks and queues, linked lists, trees, and sorting and searching. Three lectures and one two-hour laboratory.

**3031-Computer Languages.** One to three credits. Prerequisite: CSCI 3038 2170 or consent of instructor. An opportunity for a Computer Science major or minor to gain experience and training in a secondary language. Covers the syntax, advantages, disadvantages, limitations, and selected applications of a language. Credit will not be given toward a Computer Science major or minor if credit has been received for the same language in another course. May be repeated for up to three hours credit in the major or minor.

**3031 C-Language.** Two credits.

**3032 FORTRAN.** Two credits.

**3033 Java.** Three credits.

**3034 Pascal.** Three credits.

**3035 Smalltalk.** Two credits.

**3036 UNIX C-Shell Programming.** One credit.

**3037 Visual Programming.** Three credits.

**3038 Python.** Three credits.

**3080 Discrete Structures.** Three credits. (Same as MATH 3080.) Prerequisites: CSCI 1170 and MATH 1910 or consent of instructor. Topics include formal logic, proof techniques, matrices, graphs, formal grammars, finite state machines, Turing machines, and binary coding schemes.

**3110 Advanced Data Structures.** Three credits. Prerequisite: CSCI 2170; corequisite: CSCI 3080. Topics include additional object-oriented programming techniques, algorithm design, analysis of algorithms, advanced tree structures, indexing techniques, internal and external sorting, graphs, and file organizations.

**3130 Introduction to Computer Architecture.** Four credits. Prerequisite: CSCI 3160. Organization and basic architecture of computer systems. Topics include hardware components of digital computers, microprogramming, and memory management. Laboratory exercises involve logical, functional properties of components from gates to microprocessors. Three lectures and one two-hour laboratory.

**3150 Technology Tools.** One to three credits. Prerequisite: CSCI 1000 or equivalent or permission of instructor. The use, history, and impact of technology tools. Hands-on laboratory exercises. Does not count for Computer Science major or minor.

**3160 Introduction to Assembly Language.** Three credits. Prerequisite: CSCI 1170 or equivalent. Computer architecture and assembly language. Major emphasis on addressing techniques, macros, and program segmentation and linkage.

**3180 Introduction to Numerical Analysis.** Three credits. (Same as MATH 3180.) Prerequisites: MATH 1920 and CSCI 1170. Topics include series approximation, finite differences interpolation, summation, numerical differentiation and integration, iteration, curve fitting, systems of equations and matrices, and error analysis.

**3210 Theory of Programming Languages.** Three credits. Prerequisite: CSCI 2170; corequisite: CSCI 3080. Syntax and theory of multiple languages covered with emphasis on binding times, parsers, grammars, finite automata, regular expressions, type checking and equivalence, scope of variables, exception handling, parameter passing, and storage management.

**3250 Operating Systems.** Three credits. Prerequisites: CSCI 2170 and 3160. Concepts and facilities of an operating system. Major concepts in memory, processor, device, and information management are covered as well as interrelationships between the operating system and the architecture of the computer system.

**3420 Social, Ethical, and Legal Implications of Computing.** Two credits. Prerequisites: A three-hour course in computing, COMM 2200, and junior standing. Introduction to the impact of computers on society and the ethical and legal issues confronting computer users and professionals. Does not count toward a minor in Computer Science.

**4110 Advanced Commercial EDP.** Three credits. Prerequisite: CSCI 2170 or equivalent. File management in business applications. Structuring and identification of files stressed along with software engineering principles. COBOL language used as the implementation tool.

**4130 Microprocessor Operation and Control.** Three credits. Prerequisite: CSCI 3160. Digital systems based around microcomputers, microcomputer architecture, logic replacement, memory design, timing considerations, input/output design, interfacing, robotics, and total system design.

**4160 Compiler Design and Software Development.** Three credits. Prerequisites: CSCI 3110 and 3160. The various phases of a compiler along with grammars, finite automata, regular expressions, LR parsing, error recovery, backward and forward flow analysis, and code optimization. A term project consisting of the design and construction of a functional compiler required.

- 4250 Computer Graphics.** Three credits. Prerequisite: CSCI 2170 or consent of instructor. Topics include vector drawing displays, raster scan displays, input devices and techniques, graphics software, transformations, projections, interpolation, and approximation.
- 4300 Data Communication and Networks.** Three credits. Prerequisite: CSCI 3250. Computer network architectures, protocol hierarchies, and the open systems interconnection model. Modeling, analysis, design, and management of hardware and software on a computer network.
- 4330 Parallel Processing Concepts.** Three credits. Prerequisites: CSCI 3130, 3250, and a working knowledge of either C or C++. Basic concepts in parallel processing and programming in a parallel environment. Topics include classification of parallel architectures, study of actual parallel architectures, design and implementation of parallel programs, parallel software engineering.
- 4350 Introduction to Artificial Intelligence.** Three credits. Prerequisite: CSCI 2170 or equivalent. Principles include search strategies, knowledge representation, reasoning, and machine learning. Applications include expert systems and natural language understanding.
- 4360 Intelligent Robot System.** Three credits. Prerequisites: CSCI 2170 and 3080. Principles and applications of intelligent mobile robotics. Various architectures used in the basic AI robotics development paradigms and basic techniques used for robot navigation. Strong emphasis on hands-on mobile robot design, construction, programming, and experimentation using a variety of robot building platforms.
- 4560 Database Management Systems.** Three credits. Prerequisite: CSCI 3110. The relational and object models of database design along with relational algebras, data independence, functional dependencies, inference rules, normal forms, schema design, modeling languages, query languages, and current literature.
- 4600 Independent Study in Computer Science.** One to six credits. Prerequisites: Senior standing and consent of instructor. Students wishing to enroll must submit a written course/topic proposal to the department prior to the semester in which CSCI 4600 is taken. Proposal must be approved prior to taking the course. At the course conclusion, each enrollee must submit a written report to the department. May count up to 3 hours toward Computer Science major. May not be used in conjunction with CSCI 3970.
- 4700 Software Engineering.** Three credits. Prerequisite: CSCI 3110. Consists of a theoretical component and a practical component. Topics include the history of software engineering, software development paradigms and life cycles, and computer-aided software engineering (CASE). Team project developed in parallel with the theory.
- 4800 Software Testing.** Three credits. Prerequisites: CSCI 2170 and 3080. Integrates theory and applications of software testing techniques. Provides actual hands-on testing experience. Considers multiple testing paradigms.
- 4850 Neural Nets.** Three credits. Prerequisite: CSCI 3080. Various neural net architectures, theory, and applications including models such as Perceptron, back propagation, Kohonen, ART, and associative memory. Learning and conditioning methods also studied.

**4900 Selected Topics in Computer Science.** Three credits. Prerequisite: CSCI 2170. Advanced topics in computer science to be selected and announced at time of class scheduling. May be repeated for up to six credits total.

**4910 Internship.** One to six credits. Prerequisites: CSCI 2170 and 3160. Must be at least a junior with a minimum overall average of 2.75 and 3.00 in computer science. Employment experience in a computer-related function in a firm, governmental agency, etc. Must be approved by the department.

### Cooperative Education

CSCI 2930, 2940, 3970, 3980. Cooperative Education Experience I, II, III, IV. Three credits each. Experiences must be taken in sequence. CSCI 3970 may count toward the Computer Science major. It may not be used in conjunction with CSCI 4600.

### Graduate Study

The Master of Science is offered in Computer Science as is a graduate minor on the masters and doctoral levels. Requirements and a list of courses offered for graduate credit may be found in the Graduate Catalog.



# Department of Engineering Technology and Industrial Studies

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**Walter W. Boles, Chair**  
**Voorhies Industrial Studies Complex 143**

**Beard, Brown, Carter, Chen, Cheney, Foroudastan, Gore, Hatfield, Mathis, McBride, Nasab, Redditt, Salman, Sbenaty, Sergeant, Sridhara**

The purpose of Engineering Technology and Industrial Studies is to prepare students for a broad range of technical and industrial management positions. This is accomplished through nationally accredited programs, a project-based learning environment, and extensive collaboration with industry. The department faculty members have appropriate academic credentials in addition to significant industrial experience. Numerous opportunities are available for students to participate in nationally competitive projects related to topics as diverse as space robotics, solar-powered vehicles, and concrete canoes. Several programs require heavy interaction with the industrial sector, which allows students to work on projects with potential employers. Experiential learning opportunities exist through cooperative and internship classes. Highly motivated students may wish to obtain important industry-recognized certifications that exceed accreditation requirements. Students may study an array of the latest breakthroughs in topic areas such as concrete, construction and industrial management, rapid prototyping of electrical and mechanical systems, safety, and environmental science. The combination of these programs and activities offers preparation for graduates entering the fast-paced technology sector.

The Robert E. and Georgianna West Russell Chair of Manufacturing Excellence is designed to promote quality interaction with local industry. Students are encouraged to benefit from the scheduled activities, seminars, and short courses sponsored by the Chair of Manufacturing Excellence.

The department offers Bachelor of Science degrees in Concrete Industry Management, Engineering Technology, Environmental Science and Technology, and Industrial Technology.

The Engineering Technology major includes three concentrations: Computer Engineering Technology, Electro-

Mechanical Engineering Technology, and Mechanical Engineering Technology.

The Environmental Science and Technology major is an interdisciplinary program including strong science components and environmental applications under four concentrations: Energy Technology, Environmental Health and Safety, Planning and Site Analysis, and Water and Waste Management.

The Industrial Technology major has two concentrations: Construction Management Technology and Industrial Management Technology. (Credit for work experience can be obtained in the Industrial Management Technology concentration.)

Pre-professional programs are offered in Pre-architecture and Pre-engineering. In each case the student will complete his/her program after transferring to the appropriate school.

Minors are offered in Construction Management, Electronics, Environmental Science and Technology, Industrial Education, and Industrial Technology.

Courses are offered which apply toward renewal of the Occupational Education Teacher's License, Six-Sigma certification, and Lean manufacturing certification.

Cooperative Education work experiences are possible for most programs. Interested students should check with their advisors.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

## Major in Concrete Industry Management

The major in Concrete Industry Management is designed to produce broadly educated, articulate graduates, grounded in basic science and mathematics, who are knowledgeable about concrete technology and techniques and are able to manage people and systems and to promote products or services related to the concrete industry. Examples of opportunities in the field include technical sales of products used to manufacture concrete; operations management of a concrete production facility; sales and marketing of production, construction, and finishing equipment; product distribution, supply chain management, and logistics; project management for a concrete or general contractor; work as a concrete specialist in an architectural/engineering firm or government entity; and support positions such as writer or editor for a technical magazine or professional/trade association management.

All students in the program complete a minor in Business Administration as well as core classes in the major: CIM 1010, 1050, 3000, 3050, 3060, 3100, 3300, 4030, 4150, 4200, and 4910.



## Production, Sales, and Service Specialty

The Production, Sales, and Service specialty is geared toward developing technical managers for ready mix and block and precast concrete production facilities as well as their suppliers, such as admixture, aggregate, cement, and equipment companies. Positions may include opportunities such as operations management, sales and sales management, marketing management, human resource management, technical service and quality control, or environmental and safety management.

All students in the Production, Sales, and Service specialty are required to choose a business-related cognate from the list below in addition to the CIM major requirement of completing a Business Administration minor. Three courses (9 hours) must be successfully completed in a single chosen cognate area prior to graduation.

### Curriculum Requirements and Recommended Sequence

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
MATH 1730 (Math)	4	HUM 2610 (Hum/FA)	3
GEOL 1040 (Nat Sci)	4	PHYS 2010/2011 or	
COMM 2200 (Comm)	3	ETIS approved elective	4
CIM 1010, 1050	2	Humanities and/or Fine Arts	3
CHEM 1110 (Nat Sci)	4	CIM 3000, 3050	7
PSY 3020, Q M 2610, or		HIST 2010, 2020, or 2030	6
MATH 1530	3	ET 3910	3
INFS 2200	3	ECON 2410 (Soc/Beh Sci)	3
	<b>29</b>		<b>29</b>
JUNIOR		SENIOR	
ACTG 3000	3	ET 4420	3
MGMT 3610	3	CIM 3300, 4060, 4150,	
MKT 3820	3	4200, 4910	14
CIM 3060, 3100, 4030,		Humanities and/or Fine Arts	3
4050	12	Courses chosen from	
BLAW 3400	3	one CIM cognate area	9
FIN 3000 or 3010	3	PSY 1410 (Soc/Beh Sci)	3
ENGL 3520 or BMOM 3510	3		<b>32</b>
	<b>30</b>		

Students should consult their advisors each semester to plan their schedules.

### CIM Cognate Areas

Choose one area in which to complete 9 credits.

#### General Management

MGMT 3630, 3890, 4680; MKT 3855, 3870, 3880, 3950, 3960, 4810

#### International Management

MGMT 4620, 4710, 4730

#### Entrepreneurship

BMOM 2900; MGMT 3650, 4920

#### Sales

MKT 3840, 3850, 3860, 3880, 4800, 4850

#### Marketing

MKT 3850, 3855, 3860, 3870, 3880, 3900, 3910, 3930, 3950, 3960, 4870, 4880

#### Human Resource Management

MGMT 3810, 4490, 4500, 4510, 4620, 4640, 4650, 4660, 4680, 4690, 4830

#### Operations Management

MGMT 3640, 3710, 3730, 3750, 3770, 4610, 4700, 4810

#### Environmental Management

EST 2810, 4770, 4780, 4810, 4840

## Major in Engineering Technology

Engineering Technology is a technologically advanced program at the Bachelor of Science level utilizing theoretical concepts and hands-on instruction. Program selection is from the following concentrations: Computer Engineering Technology, Electro-Mechanical Engineering Technology, and Mechanical Engineering Technology.

In addition to the General Education courses, the basic requirements for all Engineering Technology concentrations are

1. completion of a core of 19 hours of Engineering Technology courses
  - ET 1840 Engineering Fundamentals, 3 hours
  - ET 3601 Electrical Circuit Analysis I, 3 hours
  - ET 3602 Electrical Circuit Analysis II, 3 hours
  - ET 4420 Industrial Safety, 3 hours
  - ET 4710 Industrial Seminar, 1 hour
  - ET 4801-4804 Senior Problem in Engineering Technology, 3 hours
  - ET 4970 Engineering Economy, 3 hours
2. completion of the minimum number of Engineering Technology total credit hours required in the applicable concentration as follows:
  - Computer Engineering Technology, 62 hours
  - Electro-Mechanical Engineering Technology, 70 hours
  - Mechanical Engineering Technology, 63 hours
3. completion of other specific courses as shown under the appropriate concentration.

**NOTE:** A grade of C or better is required on transfer credits accepted as part of a major in Engineering Technology.

### Concentration: Computer Engineering Technology

The Computer Engineering Technology concentration, accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21201, (410) 347-7700, provides the student with a sound technical base in electric and electronic circuits, digital systems, and computer hardware and software. Microcontroller, microprocessor, FPGA, and microcomputer applications in the area of control and automation as well as programming, data acquisition, transfer, and analysis are also emphasized.

Employment opportunities exist in various industrial fields that require the design and applications of digital computers such as manufacturing, medical, aerospace, control, instrumentation and measurements, and networking, installations, and maintenance of computers.

### Curriculum Requirements and Recommended Sequence

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	MATH 1920	4
MATH 1730 (Math)	4	PHYS 2020/2021	4
MATH 1910	4	ENGL 2020 or 2030 or	
ET 1840, 3601	6	HUM 2610 (Hum/FA)	3
COMM 2200 (Comm)	3	ET 3602, 3620, 3630	9
HIST 2010, 2020, or 2030	6	Humanities and/or Fine Arts	3
PHYS 2010/2011 (Nat Sci)	4	CSCI 1170, 2170	8
	<b>33</b>		<b>31</b>



JUNIOR		SENIOR	
ENGL 3520	3	Social/Behavioral Sciences	3
ET 3640, 3650, 3670, 4640, 4660	15	CSCI 3180	3
Humanities and/or Fine Arts	3	Technical elective*	2
Social/Behavioral Sciences	3	ET 4610, 4670, 4420, 4801, 4970, 4630	18
CSCI 3160	3	ET 4710	1
CHEM 1110 (Nat Sci)	4	ET 4600	2
	<b>31</b>		<b>29</b>

\*Technical elective credits should be selected from upper-division Engineering Technology/Computer Science courses and must be approved by the student's major advisor.

Students must take three four- or five-course sequences and the capstone course as follows:

- Digital Electronics (ET 3601, 3602, 3620, 3630, 3640)
- Microprocessor (ET 3620, 3640/3650, 4660, 4670)
- Instrumentation and Control (ET 3601, 3602, 3630, 4610, 4600)
- Capstone course (ET 4801)

**Optional Computer Science Minor**

The minor will include CSCI 1170, 2170, 3160, 3180 (14 hours) and at least 4 additional hours in upper-division computer science courses as approved by the minor and major advisors.

Students should consult their advisors each semester to plan their schedules.

**Minor in Electronics**

The minor in Electronics consists of at least 18 semester hours including ET 3610, 3620, and 3630 plus two courses from ET 3640, 3650, 3660, 3670, 4600, 4610, 4630, 4640, 4660, 4670, or ETIS 4790. All are three credit hours except ET 4600 which is two. Only non-majors may minor in Electronics.

**Concentration: Electro-Mechanical Engineering Technology**

The Electro-Mechanical Engineering Technology concentration, accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21201, (410) 347-7700, is structured to prepare the student for positions in industry requiring the integration of electricity (for power and control) and mechanical devices (for force and motion) to perform tasks associated with manufacturing and the performance of services.

Employment opportunities exist in fields such as robotics, fluid power, industrial electricity, heating and air conditioning, and industrial automation.

**Curriculum Requirements and Recommended Sequence**

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
MATH 1730 (Math)	4	Social/Behavioral Sciences	3
MATH 1910	4	MATH 1530	3
ET 1210, 1840, 2310	9	HIST 2010, 2020, or 2030	6
CHEM 1110 (Nat Sci)	4	PHYS 2010/2011 (Nat Sci)	4
COMM 2200 (Comm)	3	ET 3210, 3601, 3602, 3360	12
	<b>30</b>		<b>31</b>

JUNIOR		SENIOR	
Humanities and/or Fine Arts	3	Humanities and/or Fine Arts	3
MATH 2110	1	Social/Behavioral Sciences	3
CSCI 1170	4	ENGL 3520	3
ET 3620, 3630, 3810, 3830, 3860, 4420	18	ET 3650, 4600, 4610, 4640, 4710, 4802, 4850, 4860, 4970	24
PHYS 2020/2021	4		<b>33</b>
	<b>30</b>		

Students must take four three- or four-course sequences and the capstone course as follows:

- Robotics (ET 3810, 4850, 4860)
- Control Systems (ET 3601, 3602, 3630, 4610, 4600)
- Digital Circuits (ET 3601, 3602, 3620, 3650)
- Engineering Mechanics (ET 1840, 3830, 3860)
- Capstone course (ET 4802)

Students should consult their advisors each semester to plan their schedules.

**Concentration: Mechanical Engineering Technology**

The Mechanical Engineering Technology concentration at MTSU enables students to obtain the skills necessary for placement in highly competitive jobs in machine design, manufacturing, engineering, field service engineering, technical sales, thermal analysis, product design, utilities operations, air conditioning design, plant operations, and a variety of other professions. Through design projects and laboratory training, students examine how to relate such skills to a variety of fields in mechanical engineering technology including product and machine design, power generation, utilities, and manufacturing. The educational quality of this program is especially high in that it provides students with the opportunity to mesh their in-class experiences with project-oriented assignments and real-world experience in national competitions such as the Great Moonbuggy Race, the Solar BikeRayce, SAE Formula One Collegiate Competition, and the Mini Baja Race. The prospects for a graduate in mechanical engineering technology are as broad as the major concentration itself. Graduates can expect opportunities to work on a variety of projects from developing and producing engines and transportation equipment in the automobile, ship, rail, and aviation industries to working as a member on an engineering technologist design team to improve high-performance automobiles and air-conditioned environments. Students graduating from mechanical engineering technology programs often find themselves in highly responsible, challenging, and extremely rewarding positions.

**Curriculum Requirements and Recommended Sequence**

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 (Hum/FA)	3
MATH 1730 (Math)	4	ENGL 3520	3
MATH 1910	4	PHYS 2010/2011 (Nat Sci)	4
CHEM 1110 (Nat Sci)	4	Humanities and/or Fine Arts (2 prefixes)	6
ET 1210, 1840, 2310	9	MATH 1920	4
CSCI 1170	4	ET 3210, 3360, 3601, 3830	12
	<b>31</b>		<b>32</b>

JUNIOR		SENIOR	
HIST 2010, 2020, or 2030	6	ET 4340, 4420, 4710	7
COMM 2200 (Comm)	3	ET 4850, 4970, 4815	9
Social/Behavioral Sciences (2 prefixes)	6	ET 4860, 4803, 4830	9
ET 3260, 3602, 3840	9	ET electives (4 hours from approved list)*	4
ET 3810, 3860, 4330	8		<b>29</b>
	<b>32</b>		

\*Approved list of senior electives: ET 4230, 4600, 4640, 4990

Students must take four three-course sequences and the capstone course as follows:

Materials/Processing (ET 1210, 3260, 4340)  
CADD (ET 2310, 3360, 4330)  
Thermal Systems (ET 3810, 4815, 4850)  
Engineering Mechanics (ET 3830, 3840, 3860)  
Capstone course (ET 4803)

Students should consult their advisors each semester to plan their schedules.

## Major in Industrial Technology

Industrial Technology is a broad program designed to prepare the student for a position in the expanding technical fields in government and industry. Included are concentrations in Construction Management and Industrial Management for manufacturing and service industries.

In addition to the General Education requirements, the minimum requirements for all Industrial Technology concentrations are

1. completion of a minimum of 40-49 hours of engineering technology and industrial studies courses as listed under the appropriate concentration;
2. completion of a core of  
ET 2310 Computer-Assisted Drafting/Design I  
ET 3610 Introduction to Electricity and Electronics  
ET 3910 Introduction to Operations Management  
ET 4420 Industrial Safety  
ET 4710 Industrial Seminar;
3. completion of other specific courses as listed under the appropriate concentration.

### Concentration: Construction Management Technology

The Construction Management Technology concentration, accredited by the National Association of Industrial Technology (NAIT), is designed to prepare the student for supervisory or staff positions in a variety of construction-related organizations (land developers, construction firms, wholesalers of construction materials, construction material manufacturers, lumber yards, etc.). This program could include opportunities for employment in general supervision, human relations, sales, production and inventory control, and other areas.

Suggested areas for the required minor are Business Administration, Economics, or Marketing.

### Curriculum Requirements and Recommended Sequence

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	Humanities and/or Fine Arts (2 prefixes)	6
INFS 2200	3	PHYS 2010/2011 (Nat Sci)	4
MATH 1720 (Math)	3	CM 3160	3
HIST 2010, 2020, or 2030	6	CM 3180	3
ET 2310	4	CM 3320	4
Social/Behavioral Sciences	3	ET 3615	3
COMM 2200 (Comm)	3	CM 3150	3
	<b>28</b>	FIN 2450	3
		ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
			<b>32</b>

JUNIOR		SENIOR	
ACTG	3	CM 4110	3
CM 3190	3	CM 4170 or 4171	3
GEOL 1040 (Nat Sci)	4	ET 3910	3
CM 3210, 3500	6	SPAN 1010	3
CM 4010, 4100, 4120, 4130	13	Social/Behavioral Sciences	3
ET 4420	3	MKT 3820	3
	<b>32</b>	ET 4710	1
		Electives	9
			<b>28</b>

Students should consult their advisors each semester to plan their schedules.

### Concentration: Industrial Management Technology

This program, accredited by the National Association of Industrial Technology (NAIT), is designed to prepare students for positions and careers in both the industrial and service sectors. Certifications can be earned in lean manufacturing, Six Sigma (Green Belt level), and safety. Typical positions include junior industrial engineer, first-level management, Quality/Six Sigma analyst/leader, lean manufacturing leader, safety/ergonomics coordinator, production/project scheduler, inventory analyst, work team leader, and other related positions.

**Work-based (Experiential) Learning: Maximum 30 semester hours.** Up to 18 semester hours may be granted for approved work experience. Up to 18 semester hours may be granted for approved work-based learning. The total hours for both work experience and work-based learning may not exceed 30 semester hours. Students who do not have any applicable work experience may take internship courses (ETIS 2920, 3920, and 3930) or co-op courses (ETIS 2930, 2940, 3970, and 3980) and may apply these courses as part of this experiential learning. Students will be required to participate in a formal assessment process to qualify for experiential learning credit.

Students should consult their advisors each semester to plan their schedules.

**Curriculum Requirements and Recommended Sequence\***

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
BIOL 1030 (Nat Sci)	4	PHYS 2010/2011 (Nat Sci)	4
CHEM 1010	4	HIST 2010, 2020, or 2030	6
MATH 1730 (Math)	4	Social/Behavioral Sciences	3
MATH 1910	4	MATH 1530, PSY 3020, or Q M 2610	3
Humanities and/or Fine Arts	3	ACTG 3000	3
CSCI 1150	3	Humanities and/or Fine Arts	3
ET 1840	3	ET 2310	3
	<b>31</b>	COMM 2200 (Comm)	3
			<b>31</b>
<b>JUNIOR</b>		<b>SENIOR</b>	
ET 3615, 3260, 3910 3950, 4420	17	Directed electives**	6
ET 3210, 3810, 3830, 4600	11	ET 3960, 4710, 4920, 4990, 4590, 4900, 4970	19
Social/Behavioral Sciences	3	ETIS 4800	3
	<b>31</b>	ET 4490	1
			<b>29</b>

\*Curriculum is currently being reduced to 120 hours.

\*\*Students should choose six credits of electives from the following courses: PSY 3320; ET 1210, 3360, 3860, 4280, 4370, 4850, 4910.

Students should consult their advisors each semester to plan their schedules.

**Minor in Industrial Technology**

The minor in Industrial Technology consists of 18 semester hours of courses as approved by the minor advisor. A minimum of 9 hours must be upper-division courses. The minor must include 8 semester hours in one of the following areas: drafting, electronics, engineering, industrial facilities and management, metals, or safety.

**Minor in Construction Management**

The minor in Construction Management consists of 18 semester hours in Engineering Technology and Industrial Studies courses including CM 3150 and 3160 plus 11 semester hours as approved by the minor advisor.

**Minor in Industrial Education**

A minor in Industrial Education consists of 18 semester hours of Engineering Technology and Industrial Studies courses as approved by the minor advisor. A minimum of 9 hours must be at the upper-division level.

**Occupational Education License**

Individuals may obtain professional course work for renewal of the Occupational Education License. This license is required to teach health science technology and occupational education at the secondary level.

Students should consult their advisors each semester to plan their schedules.

**Major in Environmental Science and Technology**

Environmental Science and Technology is an interdisciplinary major offered in the College of Basic and Applied Sciences and administered by the Department of Engineering Technology and Industrial Studies. The broad-based curriculum offers coursework in the natural sciences, life sciences, mathematics, agriculture, technology, and the arts. Four concentrations in environmental areas—Energy Technology, Environmental Health and Safety, Planning and Site Analysis, and Water and Waste Management—are available to allow the student to pursue an area of interest. No minor is required but is encouraged for EST students. Courses that are part of a student's major cannot be used in a minor. The requirements for a major in Environmental Science and Technology are listed below with 36-41 semester hours in the EST core, 30 hours in General Education outside of the math and science areas, and 20 to 29 hours in an identified specialty or concentration.

Typical employment opportunities exist in the various levels of governmental agencies and as environmental consultants in manufacturing, construction, and agricultural industries in such areas as air and water quality control, recycling, hazardous and solid waste management, and noise.

The Department of Engineering Technology and Industrial Studies administers the interdisciplinary program. Courses are offered by Agribusiness and Agriscience, Biology, Chemistry, Geosciences, and Engineering Technology and Industrial Studies.

Students are encouraged to pursue opportunities offered through the Center for Energy Efficiency. The center promotes energy economics and environmental awareness and stewardship for students, faculty, administrators, and others in the community. Through interaction with local, state, and federal associations, the center offers certification seminars, educational and training opportunities, and leadership in achieving energy management and efficiency goals.

**Core requirements (36-41 hours)**

ABAS 3370, 3 hours  
 BIOL 1120, 4 hours  
 CHEM 1120, 4 hours  
 CHEM 2030 or 3010/3020, 4 or 8 hours  
 GEOL 1040 or ABAS 3340, 3 or 4 hours  
 EST 2810, 3 hours  
 EST 4770 or 4780, 4 hours  
 PHYS 2010/2011, 2020/2021, 8 hours  
 MATH 2050, 3 hours

**Concentration: Energy Technology**

The Energy Technology concentration under the Environmental Science and Technology major includes course work in conservation and the environmental issues in the use of non-renewable energy sources. This program offers preparation for students seeking employment in the energy management, air pollution control, and resource management fields.

**Curriculum Requirements and Recommended Sequence**

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ENGL 1010, 1020 (Comm)	6	MATH 1910 (Math)	4
BIOL 1110 (Nat Sci)	4	MATH 2050	3
BIOL 1120	4	PHYS 2010/2011, 2020/2021	8
CHEM 1110 (Nat Sci)	4	CHEM 2030	4
CHEM 1120	4	GEOL 1040 or ABAS 3340	3-4
EST 2810	3	Social/Behavioral Sciences	3
Humanities and/or Fine Arts	3	ET 3615	4
HIST 2010, 2020, or 2030	3	ENGL 2020 or 2030 or	
	<b>31</b>	HUM 2610 (Hum/FA)	3
			<b>32-33</b>

<b>JUNIOR</b>		<b>SENIOR</b>	
Social/Behavioral Sciences	3	EST 4770 or 4780	4
ABAS 3370	3	ET 4815, 3810, 4970	9
HIST 2010, 2020, or 2030	3	ET 4420 or BIOL 3220	3
EST 4810, 4820, 4840	9	Humanities and/or Fine Arts	3
COMM 2200 (Comm)	3	GEOL 4130	4
ET 3610	4	ETIS 3920	2
GEOG 4530	3	PHYS*	4
	<b>28</b>		<b>29</b>

\*Consult advisor for course.

**Concentration: Environmental Health and Safety**

The Environmental Health and Safety concentration of the Environmental Science and Technology major includes course work in calculus-based courses in physics and engineering mechanics, engineering design, and safety. This course of study offers preparation for a variety of careers in environmental engineering technology, safety, design, and environmental consulting, as well as graduate degree programs in environmental engineering.

**Curriculum Requirements and Recommended Sequence**

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ENGL 1010, 1020 (Comm)	6	MATH 1910 (Math)	4
BIOL 1110 (Nat Sci)	4	MATH 2050	3
BIOL 1120	4	PHYS 2010/2011, 2020/2021	8
CHEM 1110 (Nat Sci)	4	Social/Behavioral Sciences	3
CHEM 1120	4	ENGL 2020 or 2030 or	
EST 2810	3	HUM 2610 (Hum/FA)	3
Humanities and/or Fine Arts	3	GEOL 1040 or ABAS 3340	3-4
HIST 2010, 2020, or 2030	3	CHEM 3010, 3020	8
	<b>31</b>		<b>32-33</b>

<b>JUNIOR</b>		<b>SENIOR</b>	
Social/Behavioral Sciences	3	CHEM 4600	3
HIST 2010, 2020, or 2030	3	Humanities and/or Fine Arts	3
COMM 2200 (Comm)	3	BIOL 4240	4
ABAS 3370	3	HLTH 4460	3
EST 4780	4	ET 4450	3
CHEM 2230, 3530	9	EST 4770	4
BIOL 3050 or 4080	3-4	EST 4980	3
	<b>28-29</b>	ET 4420	3
		BIOL 4570	3
			<b>29</b>

Students should consult their advisors each semester to plan their schedules.

**Concentration: Planning and Site Analysis**

The Planning and Site Analysis concentration under the Environmental Science and Technology major offers training in environmental planning, the collection and analysis of information on the natural environment to be completed before design and construction of a project. The goal of planning is to avoid natural hazards, conserve natural resources, and protect the environment through sound ecological principles. Effective environmental planning results in the efficient management of natural resources, insuring sound economic development while minimizing environmental degradation.

**Curriculum Requirements and Recommended Sequence**

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ENGL 1010, 1020 (Comm)	6	MATH 1910 (Math)	4
BIOL 1110 (Nat Sci)	4	MATH 2050	3
BIOL 1120	4	PHYS 2010/2011, 2020/2021	8
CHEM 1110 (Nat Sci)	4	Social/Behavioral Sciences	3
CHEM 1120	4	ENGL 2020 or 2030 or	
EST 2810	3	HUM 2610 (Hum/FA)	3
Humanities and/or Fine Arts	3	GEOL 1040 or ABAS 3340	3-4
HIST 2010, 2020, or 2030	3	CHEM 2030	4
	<b>31</b>	BIOL 2230	4
			<b>32-33</b>

<b>JUNIOR</b>		<b>SENIOR</b>	
Social/Behavioral Sciences	3	Humanities and/or Fine Arts	3
HIST 2010, 2020, or 2030	3	Approved electives*	7
COMM 2200 (Comm)	3	BIOL 4240, 4250	8
ABAS 3370	3	CHEM 4600, 4630	7
EST 4770 or 4780	4	GEOL 4090, 4130	5
CHEM 2230	5		<b>30</b>
BIOL 3220	3		
GEOG 4530	3		
	<b>27</b>		

\*Choose from ABAS 4340, 4350; BIOL 3210; CHEM 4610; EST 4810; GEOG 4570; GEOL 4150, 4490.

Students should consult their advisors each semester to plan their schedules.

**Concentration: Water and Waste Management**

The Water and Waste Management concentration under the Environmental Science and Technology major looks at solid waste which is deposited on land and in water, sometimes causing serious environmental problems. However, wastes may be handled as a resource. Major issues of waste management include problems and benefits associated with landfilling garbage and with the need to reduce the waste stream. Major concerns to be considered in assessing waste management problems and solutions are (1) environmental quality: wastes must be managed so they do not pollute air or soil water resources; nor should they be used in a way that might introduce a toxic or pathogen into the food chain; (2) organic waste as energy resources: incineration can be studied as an alternative to landfilling or application; organic wastes may also be a source of fertilizers.



**Curriculum Requirements and Recommended Sequence**

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ENGL 1010, 1020 (Comm)	6	MATH 1910 (Math)	4
BIOL 1110 (Nat Sci)	4	MATH 2050	3
BIOL 1120	4	PHYS 2010/2011, 2020/2021	8
CHEM 1110 (Nat Sci)	4	Social/Behavioral Sciences	3
CHEM 1120	4	ENGL 2020 or 2030 or	
EST 2810	3	HUM 2610 (Hum/FA)	3
Humanities and/or Fine Arts	3	ABAS 3340	3
HIST 2010, 2020, or 2030	3	CHEM 2030	4
	<b>31</b>	BIOL 2230	4
			<b>32</b>
<b>JUNIOR</b>		<b>SENIOR</b>	
GEOL 1040	4	Humanities and/or Fine Arts	3
EST 4770 or 4780	4	GEOL 4130	4
ABAS 3370	3	BIOL 4250	4
COMM 2200 (Comm)	3	CHEM 4600, 4630	7
HIST 2010, 2020, or 2030	3	Approved electives*	7
BIOL 3220, 4240	7	Social/Behavioral Sciences	3
CHEM 2230	5		<b>28</b>
	<b>29</b>		

\*Choose from ABAS 3700, 4370; BIOL 3210, 4590; CHEM 4610; GEOL 4150.

Students should consult their advisors each semester to plan their schedules.

**Minor in Environmental Science and Technology**

The minor in Environmental Science and Technology consists of 18 semester hours of courses as approved by the minor advisor with at least 6 hours at the upper-division level.

**Pre-architectural and Pre-engineering Programs**

**Pre-architecture**

The following program is recommended as the first year of a five-year program leading to the Bachelor of Architecture degree. After successful completion of the courses listed, students are eligible to apply for admission to the school of architecture of their choice. It should be understood that students who complete this year of work will not automatically be assured of admission to the remaining four years of work in a school of architecture. Those who wish to apply to a school of architecture should see their advisors no later than February 1 in order to have time to follow the proper procedure to be considered for admission for the fall term of the following year. The recommended program for the first year follows.

<b>FRESHMAN</b>	
ENGL 1010, 1020	6
MATH 1910, 1920	8
Science*	8
CM 1300	4
ET 1840	3
Social Science Electives	6
	<b>35</b>

\*To be selected based on the transfer school requirements and the approval of the advisor. The student should have the catalog of the transfer school at the time of registration, if possible.

Students should consult their advisors each semester to plan their schedules.

**Pre-engineering**

The pre-engineering program that exists at MTSU requires additional study at an engineering school such as Tennessee State University, Tennessee Technological University, the University of Memphis, the University of Tennessee, or Vanderbilt University in order to obtain an engineering degree. Depending upon the program chosen, the student will complete two or three\* years of the curricula shown below at MTSU. Students should consult their advisors and an advisor at the school to which they want to transfer concerning specific information on acceptance/transfer of the courses listed below to the engineering school of their choice. Information on the pre-engineering program in agricultural engineering can be found under the School of Agribusiness and Agriscience.

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ENGL 1010, 1020	6	PHYS 2110/2111, 2120/2121	8
CHEM 1110, 1120	8	MATH 3110, 3120;	
MATH 1910, 1920	8	STAT 3150	10
ET 1840, 2310	6	ET 3830, 3840, 3860	9
CSCI 1170	4	ET 3360, 4970	6
	<b>32</b>	COMM 2200	3
			<b>36</b>

\*Additional classes are available to juniors based on which school they are planning to attend. For example, MTSU offers a wide variety of engineering courses that may be available to third-year pre-engineering students. Students wanting to stay for a third year and take these courses may do so, but they must consult their advisors in advance.

Students should consult their advisors each semester to plan their schedules.

**Standard Four-Year Engineering Program**

This program will require four years to complete. The student is required to take the freshman and sophomore years indicated above and then transfer to an engineering school. The engineering school would then require two years of additional study to complete requirements toward the degree. The pre-engineering program at MTSU has been closely coordinated with several engineering schools. A student who elects to transfer should confer with his or her faculty advisor two semesters prior to transfer.

## Courses in Construction Management [CM]

- 1300 Drafting Fundamentals for Architecture and Construction.** Four credits. Not open to students who take ETIS 1310. Drafting theory and practice including orthographic projection, drafting conventions, lettering, descriptive geometry, and size descriptions employing architectural and construction sketching activities. Recommended for students of pre-architecture and construction management with less than one unit of high school drafting. Two hours lecture and four hours laboratory.
- 3150 Residential Building Construction and Materials I.** Four credits. Blueprint reading, terminology, building materials, methods and techniques, problems, and fundamentals essential for residential construction. Recommended for those desiring general knowledge of construction or work in the construction field. Two hours lecture and four hours laboratory.
- 3160 Cost Estimating I.** Three credits. Prerequisite: CM 3150 or consent of instructor. Introduction to the principles and practices involved in the preparation of a cost estimate for a residential home. Topics include introduction to cost estimating, materials, and labor costs for residential building.
- 3170 Construction Measurement.** Three credits. Prerequisites: CM 3150; ET 2310; MATH 1720 or 1730. Reading of topo maps used in the construction field. Measurement and calculations involved in surveying, road and utilities layout for subdivisions.
- 3180 Construction and Materials II.** Three credits. Prerequisite: CM 3150. A continuation of CM 3150 with emphasis on new building materials and various types of construction. Light commercial construction included.
- 3190 Construction Land Development Operations.** Three credits. Prerequisite: ET 2310 or permission of instructor. Topics include contractor procedures in land development, land development infrastructure, and management methods used in small land development construction equipment.
- 3210 Residential Codes, Regulations, Specifications, and Plan Reading.** Three credits. Prerequisite: CM 3150 or permission of instructor. The residential and subdivision infrastructure construction language for plan reading, codes, regulations, and specifications. Lectures and hands-on activities. Industry will provide guest lecturers and show examples of some of their work in the field. Students will be required to visit architects, city and county codes department representatives, and contractors during the semester.
- 3320 Architectural Computer-Aided Drafting and Design.** Four credits. Prerequisites: ET 2310 and CM 3150 or consent of instructor. Using computers to draw and design residential architectural plans. Specifically geared toward the construction area of concentration. Two hours lecture and four hours laboratory.
- 3500 Land Surveying.** Three credits. Prerequisite: MATH 1720 or 1730. Basic surveying operations such as chaining, differential leveling, transverse methods and calculations, structural layout, topographic mapping, and slope staking for road and utilities in subdivisions. Basic surveying instruments used include the chain, automatic level, transit, and theodolite. Environmental issues relating to land and land development covered.
- 4010 Construction Law.** Three credits. Prerequisite: Junior standing. Practical approach to the legal system in construction. Topics include licensing requirements, business associations, hiring professionals, employment issues, insurance, worker's comp, tort

liability, contracts, financing, sale of property, title issues, liens, land use, bankruptcy, and warranties.

- 4100 Mechanical and Electrical Systems.** Four credits. Prerequisites: CM 3160, 3320; PHYS 2010-2011. Fundamentals and computer design of mechanical, electrical, and plumbing systems used in the residential and light commercial building construction industry. Three hours lecture and three hours laboratory.
- 4110 Cost Estimating II.** Three credits. Prerequisites: CM 3190, 4120. Use of computer to estimate total cost of land development and housing costs for capstone project.
- 4120 Scheduling.** Three credits. Prerequisites: CM 3190, 3320, and 4100. Flow of labor and material toward specified goal, weather, trade characteristics, and material availability in work scheduling shown by graphs.
- 4130 Construction Administration.** Three credits. Prerequisites: CM 3160-3190. Management and administration of construction to include contracts, office, and field work.
- 4170 Capstone—LDRB Construction Management.** Three credits. Prerequisites: All construction courses through CM 4130. Final preparation of development plans, etc., for subdivision. Basic principles of presentations. Presentation of capstone project to Building Construction Technical Committee.
- 4171 Construction Marathon.** Three credits. Prerequisite: Construction Management Technology majors beginning their fifth consecutive semester of marathon training. For students interested in advanced training to prepare for National Competition in Land Development/Residential Construction. Training will be year-round for a minimum of two years. Students will sign up for CM 4171 at the beginning of the fifth and the sixth consecutive semesters of training for three hours credit each. Participants must attend the required number of sessions each semester as determined by the team coaches (not to exceed nine sessions). Students are required to sign a contract with the construction program advisor before becoming a Marathon Construction Team member.

## Courses in Concrete Industry Management [CIM]

- 1010 Introduction to Concrete Industry.** One credit. Overview of the history, career opportunities, job functions, and professional organizations in the concrete industry. Introduction to the concrete industry management curriculum, instructional exceptions, and methodologies.
- 1050 Blueprint Reading.** One credit. Provides a broad-based background in interpreting blueprints. Typical plans for both residential and commercial building reviewed.
- 3000 Fundamentals of Concrete: Properties and Testing.** Four credits. Corequisite: CM 3150 or 1010. Concrete testing, admixtures, placing, and finishing. Effects of concrete-making materials on properties of fresh and hardened concrete materials.
- 3050 Concrete Construction Methods.** Three credits. Prerequisite: CM 3000. Forming and shoring, placing and reinforcing; transporting, placing, consolidating, finishing, jointing, and curing concrete for cast-in-place foundations, pavements, slabs on ground, structural frames, and other structural members; erecting precast concrete members; waterproofing concrete foundations.

- 3060 Understanding the Concrete Construction System.** Three credits. Prerequisite: CM 3000. Detailed look at how the concrete construction industry works. Includes review of model building codes, building officials and their function, concrete industry codes and standards, concrete construction processes, quality assurance systems, contract documents, and concrete construction markets.
- 3070 Site Planning, Layout, and Preparation.** Three credits. Prerequisite: CIM 3050. Activities required to successfully prepare a site for concrete work. Includes initial site investigation, surveying, groundwork, subbase preparation, and elevations. Exposes students to modern technological tools and methods such the use of GPS, EDM, and lasers.
- 3080 Formwork Design and Computerized Drafting.** Four credits. Prerequisite: CIM 3050. Overview of costs and safety with regard to formwork selection, design, and construction. Reviews the various forming systems available and how they may be integrated for use in specific project circumstances. Includes a basic review of CAD drafting techniques and their applications.
- 3100 Applications of Concrete Construction.** Three credits. Prerequisites: CM 3000, 3050. Details many uses of concrete in the construction of buildings, pavements, and other facilities. Emphasis on the advantages, disadvantages, and unique problems faced by materials suppliers, contractors, and design professionals when concrete is chosen for specific applications.
- 3200 Concrete Project Estimating.** Three credits. Prerequisite: CIM 3100. Project drawings to prepare both basic and detailed estimates. Activities include practice implementing the printreading, estimating, and other skills acquired using actual sets of finished drawings. Projects will become more complicated as the semester progresses and will include below-grade, flatwork, and above-grade examples.
- 3300 Concrete Industry Internship.** Three credits. Opportunity for students to gain supervised, practical work experience in their particular field of interest within the concrete industry. The student will be evaluated by his/her supervisor, and a final report will be submitted by the student detailing the internship experience.
- 3600 Advanced Concrete Project Management.** Three credits. Prerequisite: CIM 3060. A continuation of the construction management concepts taught in CIM 3060. Emphasis on application of advanced project management concepts. A group activity involving management of a complex concrete construction project.
- 4010 Design and Construction Issues.** Three credits. Prerequisite: CIM 3200. A review of concrete construction materials and their physical and mechanical properties. Special emphasis placed on the concepts of mechanics of materials and resolving design/construction mismatches.
- 4030 Issues in the Concrete and Construction Industry: A Legal and Ethical Perspective.** Three credits. Involves a case study approach to critically analyzing historical and current events in the concrete and construction industry. Particular emphasis on developing a managerial decision-making process incorporating ethical, legal, financial, and other business perspectives.
- 4050 Management of Concrete Products: Ordering and Delivering.** Three credits. Prerequisites: ET 3910; CM 3000, 3050. Provides student with basic understanding on managing order and delivery processes common to all concrete products. Emphasis on planning, organizing, and controlling at both the first-line supervisory and managerial levels. Key differences in the order and delivery functions of ready mix concrete, concrete masonry, pre-cast concrete, pre-stress concrete, and concrete pipe supplemented by product-specific guest lectures and plant tours.
- 4060 Management of Concrete Products Production Facilities.** Three credits. Prerequisites: CM 3000, 3050; ET 3910. Provides student with basic understanding of managing the manufacturing process common to all concrete products production facilities. Emphasis on planning, organizing, and controlling at both the first-line supervisory and managerial levels. Review of key differences in manufacturing process of ready mix concrete, concrete masonry, precast concrete, pre-stress concrete, and concrete pipe explained through product-specific guest lectures and plant tours.
- 4070 Concrete Contracting Personnel Management.** Three credits. Prerequisite: Senior standing. Application of personnel management techniques in the contracting business. Emphasis on adapting management styles to various employee personality traits, training techniques, personal management, effective and efficient management of equipment and other resources, and leadership development.
- 4100 Field Management and Supervision.** Three credits. Prerequisite: Senior standing. Offers knowledge and skills to effectively manage concrete construction jobsite activities. Emphasis on safety, equipment identification and use, maintenance, contingency plans, and worksite productivity.
- 4150 Concrete Problems: Diagnosis, Prevention, and Dispute Resolution.** Three credits. Prerequisite: Senior course only. Diagnosing and preventing problems related to concrete production, testing, construction, and performance. Identifying causes of fresh and hardened concrete problems such as fast and slow setting, air content variations, low strength, cracking, and scaling. Pre-job conferences and dispute resolution methods.
- 4200 Senior Concrete Lab.** Two credits. Opportunity for students to gain in-depth knowledge of the technical aspects of concrete and cement chemistry in a laboratory environment. The student will be evaluated by his/her ability to investigate a concrete situation and resolve the issue with a laboratory project. Graded activities include in-class exercises, written reports, and oral presentations.
- 4800 Special Problems in Concrete Industry Management.** One-three credits. Prerequisite: Permission of department. Opportunity to pursue projects of individual interest in concrete industry management. Projects may be technical and/or managerial in nature and may require any combination of literature reviews, lab work, field studies, and other research methods. A faculty member will approve a formally submitted proposal for the study, supervise progress, and grade a report and a presentation which are required upon completion of the project. May be repeated for up to 6 hours of undergraduate credit.
- 4910 Capstone.** Three credits. Prerequisite: To be taken semester before graduation. Intensive study of a problem(s) appropriate to the major and the student's career interest. Solution(s) for problem(s) presented to a committee of concrete industry representatives. Presentation must emphasize depth of analysis, completeness and effectiveness of solution, and presentation skills.

## Courses in Engineering Technology and Industrial Studies [ETIS]

- 1310 Basic Technical Drawing and Sketching.** Four credits. Not open to students who take CM 1300. Technical drawing and sketching theory and practice including orthographic projection, drafting conventions, lettering, descriptive geometry, sections, auxiliary views, and size descriptions employing mechanical drawing and sketching activities. Recommended for students with less than one unit of high school drawing. DOES NOT SATISFY REQUIREMENTS FOR MAJOR. Two hours lecture and four hours laboratory.
- 2920 Industrial Orientation Internship.** One to three credits. Prerequisite: Consent of the instructor. Provides industrial exposure for students with little or no industrial work experience. Students will be placed in an acceptable company for introductory industrial experiences. Arrangement for this course must be made in advance.
- 2930 Cooperative Education Experience I.** Three credits. Provides students with opportunity for on-the-job training in conjunction with on-campus academic experiences. Students will participate in professional growth seminars. Pass/Fail.
- 2940 Cooperative Education Experience II.** Three credits. Prerequisite: ETIS 2930. Continuation of ETIS 2930. Pass/Fail.
- 3920 Industrial Internship I.** Three credits. Prerequisite: Consent of instructor. Student is employed by an acceptable industry for industrial experience. Credit given for actual work with employer. Arrangement for this course must be made in advance. Pass/Fail.
- 3930 Industrial Internship II.** Three credits. Prerequisite: ETIS 3920. A continuation of Internship I. Same stipulations apply. Pass/Fail.
- 3970 Cooperative Education Experience III.** Three credits. Prerequisite: ETIS 2940. Continuation of ETIS 2940. Pass/Fail.
- 3980 Cooperative Education Experience IV.** Three credits. Prerequisite: ETIS 3970. Continuation of ETIS 3970. Pass/Fail.
- 4490 Topics in Industrial Technology.** One to six credits. Subject topics offered as required to meet the needs of the class.
- 4700 Industrial Topics.** One to six credits. Problems in any one of a variety of areas to meet the needs of the class.
- 4790 Advanced Problems in Technology.** Three credits. Prerequisite: Completion of all courses in a given area or approval of instructor. For the advanced student who wishes to work on a designated problem in a specific area. Works on an individual problem or project independently under the guidance of an instructor.
- 4800 Senior Problems in Industrial Technology.** Three credits. Prerequisites: ET 4920, 4930, 4940, 4960, and 4970. Capstone course requiring the solution and presentation of a broad technical problem which requires the application of previous course work.

## Courses in Engineering Technology [ET]

- 1210 Introduction to Metals and Metallurgy.** Four credits. Origin and behavior of metals. Extractive metallurgy—reduction of metallic ores, production of stock shapes, identification and selection of ferrous and nonferrous metals. Physical metallurgy—mechanical and physical properties, crystalline structure, phase diagrams, hardening and tempering, isothermal diagrams, metallurgy of welds, service problems, casting processes. Exercises in the use of basic welding, foundry, and metallurgical testing equipment. Two hours lecture and four hours laboratory.
- 1840 Engineering Fundamentals.** Three credits. Broad introduction to basic laws of fluid mechanics, thermodynamics, materials science, and electricity, including topics on power production by conventional and developmental techniques and introduction to computer-aided problem solving. Employment in the engineering fields addressed.
- 2310 Computer-Assisted Drafting/Design I.** Three credits. Prerequisite: ETIS 1310 or CM 1300 or one year of high school drafting. Technical drafting concepts utilizing personal computers, plotters, and appropriate CAD software. Lecture and laboratory.
- 3210 Machine Tool Technology.** Three credits. Prerequisite: ETIS 1310. Metals, their sources, manufacture, and properties; basic metalworking hand tools, measurements; layout; drawing and safety. Exercises in the use of the basic machine tools in machine shop work. Lecture and laboratory.
- 3220 Advanced Metalwork.** Three credits. Techniques, equipment and procedures, advantages and disadvantages of current metal-casting processes used in industry. Laboratory exercises in sand molding and casting, the full mold process, investment casting, and permanent mold casting including pattern design and construction, mold making, metal melting and handling. Guest lecturer(s). Plant tour(s). Lecture and laboratory.
- 3240 Welding.** Four credits. Prerequisite: ET 1210 or consent of instructor. Overview of basic welding, brazing, and cutting processes. Emphasis on operation and safe practice of oxyacetylene, shielded metal arc, tungsten inert gas, and metal inert gas welding and cutting processes. Exercises with welding symbols, selection of electrodes, and setup and operation of welding equipment. Two hours lecture and four hours laboratory.
- 3260 Manufacturing Processes and Materials.** Three credits. An analysis of machines, tools, processes, and materials used in production.
- 3360 Computer-Assisted Drafting/Design II.** Three credits. Prerequisite: CM 3320 or ET 2310. Utilizes IBM-compatible computer and CAD software to develop skills in the creation and analysis of mechanical solid models for design and production purposes. Includes the use of shading and rendering to enhance three-dimensional model display and the extraction of two-dimensional engineering drawings. Lecture and laboratory.
- 3601 Electrical Circuit Analysis I.** Three credits. Corequisite: MATH 1910. Fundamentals of electrical circuits. Addresses basic circuit components and quantities. Emphasis on DC circuit calculations and theorems. Uses lab equipment to build and test DC circuits. Two hours lecture and three hours laboratory.
- 3602 Electrical Circuit Analysis II.** Three credits. Prerequisite: ET 3601 and MATH 1910. Addresses basic circuit components and quantities of AC circuits. Introduces three-phase circuits and transformers. Emphasis on AC circuit calculations and theorems. Uses



lab equipment to build and test AC circuits. Two hours lecture and three hours laboratory.

- 3610 Introduction to Electricity and Electronics.** Four credits. Prerequisite: MATH 1710 or 1730. Orientation to direct current, alternating current, magnetism, filters, and semiconductor devices. Rectifier-filters and basic transistor amplifiers are also examined as representative electronic circuits. Use of meters, oscilloscopes, and other test instruments are stressed in the laboratory. Three hours lecture and three hours laboratory.
- 3615 Principles of Electricity.** Four credits. Prerequisite: MATH 1710 or 1730. An overview of basic electrical circuits and systems, direct current circuits, alternating current circuits, and electrical devices and control schemes. Electrical motors, relays, solenoids, transformers, and power supplies examined. National Electric Code also examined. For students enrolled in Construction Management Technology or Concrete Industry Management. Laboratory exercises stress the use of test instruments and the construction of basic electrical circuits. Three hours lecture and three hours lab.
- 3620 Digital Circuits Fundamentals.** Four credits. Prerequisite: ET 3601 or permission of instructor. Provides thorough coverage of basic digital electronic circuits analysis and design. TTL and CMOS families examined. Number systems, mapping, and minimization techniques covered. Digital design using random logic and programmable logic devices (FPGAs and CPLDs). Three hours lecture and three hours laboratory.
- 3630 Electronics I.** Three credits. Prerequisite: ET 3602 or permission of instructor. Introduction to analog electronics. Defines basic parameters and theory of operation of discrete semiconductor devices. Introduces fundamentals of electronic circuits analysis and design. Applications illustrate use, and laboratory projects provide hands-on experience. Two hours lecture and three hours laboratory.
- 3640 Digital Circuits Design.** Three credits. Prerequisite: ET 3620; corequisite: ET 3630 or permission of instructor. In-depth study of sequential circuit analysis and design that includes state machine design. Emphasis on the use of available development boards using both FPGAs and CPLDs and their respective CAD tools. PLDs programmed using latest relative CAD systems. Two hours lecture and three hours laboratory.
- 3650 Introduction to Microprocessors.** Three credits. Prerequisites: CSCI 1170 and ET 3620. Covers architecture of microcontrollers and microprocessor-based systems and their related components. Machine language programming extensively used to solve problems and demonstrate the relationship of the microprocessor and its supporting peripherals. Basic microcomputer architecture also emphasized. Two hours lecture and three hours laboratory.
- 3660 Communication Electronics.** Four credits. Prerequisite: ET 3630 or permission of instructor. Theory of electronic circuits as applied to communication; special electronics circuits required in communications systems. Testing theory and procedures. Various methods of electronic communications. Testing and evaluation of electronic circuits. Three hours lecture and three hours laboratory.
- 3670 Computer-Assisted Printed Circuit Board Design.** Four credits. Prerequisites: ET 3620 and 3630 or permission of instructor. Utilizes computer software to develop skills in creating schematic and printed circuit board artwork for use in printed circuit board production. Includes plotting, printing, and generating all necessary documents required for fabrication. Three hours lecture and three hours laboratory.
- 3810 Engineering Thermodynamics and Heat Transfer.** Three credits. Prerequisites: PHYS 2010 or 2110; MATH 1910. Basic concepts of engineering thermodynamics, work, heat, first law, second law, ideal gases, power cycles, conduction, convection, and radiation heat transfer. Applications to power generation, aerospace, and electronics addressed.
- 3830 Statics.** Three credits. Corequisites: MATH 1910 and PHYS 2010. Fundamental concepts and conditions of static equilibrium; their application to systems of forces and couples acting on rigid bodies; and the calculation of centers of gravity, centroids, and moments of inertia.
- 3840 Dynamics.** Three credits. Prerequisite: ET 3830. Rectilinear curvilinear, and rotary motion of rigid objects both with and without consideration of the unbalanced force causing the motion. Application of the principles of work, energy, impulse, and momentum to the solution of engineering problems.
- 3860 Strength of Materials.** Three credits. Prerequisite: ET 3830. The mechanics of materials emphasizing the analysis and design of statically determinate beams, columns, and structural members in torsion and application of the three moment equation to statically indeterminate beams.
- 3910 Introduction to Operations Management.** Three credits. A foundation course in manufacturing and service operations management. Problem-solving applications emphasized.
- 3950 Metrology.** Four credits. Overview of methods and procedures of precision measuring and gauging as used in inspection and quality control by industry. Two hours lecture and four hours laboratory.
- 3960 Industrial Quality Technology.** Three credits. Covers breadth and some depth in quality technology. Explores history of quality, present techniques, and future predictions. Lecture.
- 4230 Advanced Machine Tool Technology.** Three credits. Prerequisite: ET 3210. Taper turning, boring and thread chasing, and calculations of screw threads and other operations. Gear terminology and calculations; practice gear cutting on the milling machine; use of index head. Lecture and laboratory.
- 4280 Computer-Aided Manufacturing: Numerical Control (NC).** Four credits. Prerequisites: ET 2310 and 3210 or consent of instructor. The role of NC in today's manufacturing environment; machines and machine control systems of a typical installation. Justifying NC equipment. Emphasis on writing and debugging programs for a three-axis milling machine and a two-axis turning machine utilizing both computer numerical control and computer-aided part programming. For those with little experience or seeking to broaden their knowledge. Two hours lecture and four hours laboratory.
- 4330 Advanced Computer-Aided Drafting.** Two credits. Prerequisite: ET 3360 or permission of instructor. Topics include customizing menus, 3-D concepts and surface modeling, AutoLisp, rendering, and slide shows. Interactive computer drafting and design using advanced AutoCAD software and add-ons. Primarily for students who want to increase their capabilities using CAD. Lecture and laboratory.

- 4340 Design of Machine Elements.** Three credits. Prerequisite: ET 3860. Analytical design methods. Stress analysis, working stress, combined stresses, failure theories, fatigue failure. Design techniques for shafts, fasteners, gears, bearings, and belt and chain drives. Includes a design project.
- 4370 Tool Design.** Three credits. Prerequisites: ET 3260 and 3360; MATH 1730. Basic concepts, to include design projects such as jigs and fixtures and simple dies. Students use CAD in conjunction with CAD catalogs of tooling components.
- 4420 Industrial Safety.** Three credits. Safety and health in the manufacturing, construction, and utilities industries, including pertinent laws, codes, regulations, standards, and product liability considerations. Organizational and administrative principles and practices for safety management and safety engineering, accident investigation, safety education, and safety enforcement.
- 4440 Fire Safety.** Three credits. Fundamental methods of fire protection, prevention, and suppression. Includes characteristics and behavior of fire, fire hazards of materials and buildings, codes and standards for fire prevention and protection, fire protection equipment and systems, and fire fighting forces and how they operate.
- 4450 Industrial Hygiene.** Three credits. Corequisite: ET 4420 or permission of instructor. An introduction to industrial or occupational hygiene—that science and art devoted to the anticipation, recognition, evaluation, and control of those environmental factors or stresses, arising in or from the workplace, which may cause sickness, impaired health and well-being, or significant discomfort and inefficiency among workers or citizens of the community.
- 4590 Manufacturing Automation Systems.** Three credits. Prerequisite: Junior status or consent of instructor. Technical, human, and business aspects of modern automation system. Includes automation controls, levels of control and major components/subsystems, object-based software components, intelligent actuators and sensors, emerging trends, flexible manufacturing systems (FMS), computer integrated manufacturing (CIM), industrial systems and supply chain applications, organizational approaches, and automation justification.
- 4600 Programmable Logic Controllers.** Two credits. Prerequisite: ET 3630 or permission of instructor. Introduction to programmable logic controllers (PLCs). Selection, operation, and troubleshooting. Ladder diagrams and programming of PLC emphasized. One hour lecture and two hours laboratory.
- 4610 Instrumentation and Controls.** Three credits. Prerequisites: ET 3620 and 3630. Devices and techniques used in the measurement of physical parameters. Consideration of accuracies and sources of error, identification of typical measurements, sensors and transducers, control stability and response. Two hours lecture and three hours laboratory.
- 4630 Local Area Networks.** Four credits. Provides the necessary foundation experience to understand the design, implementation, and management strategies of local and wide area networks (LAN/WAN). Data Communication Standards and protocol, fundamentals included. Will include lecture, laboratory activities, and a LAN design requirement. Two hours lecture and three hours laboratory.
- 4640 Industrial Electricity.** Three credits. Prerequisite: ET 3600 or permission of instructor. AC power theory and circuits for industrial applications, polyphase systems, power factor correction, and transformers. Theory, applications, and selection of motors and generators. Industrial motor control and power transmission. Two hours lecture and three hours laboratory.
- 4660 Microprocessor Interfacing.** Four credits. Prerequisites: ET 3640 and 3650 or permission of instructor. Emphasis on interfacing various analog and digital devices to a microcontroller/microprocessor-based system: memory expansion, A/D and D/A, display devices, keyboards and keypads, electromechanical devices, and sensors. PLDs (FPGAs/CPLDs) interfaced to facilitate rapid prototyping of digital system design. Three hours lecture and three hours laboratory.
- 4670 Microprocessor Design.** Three credits. Prerequisite: ET 4660 or permission of instructor. Advanced microprocessor system design. Emphasis on the design of core CPUs and imbedded components using high-density FPGA/CPLD development boards. Industrial applications of microprocessor-based systems. Two hours lecture and three hours laboratory.
- 4700 Transform Circuit Analysis.** Three credits. Prerequisites: ET 3600 and MATH 1920 or permission of the instructor. Advanced network analysis stressing network theorems and solutions of time and frequency-domain problems with the use of Laplace Transforms.
- 4710 Industrial Seminar.** One credit. Prerequisite: Junior status. Orientation to industrial job opportunities, placement practices, interview techniques, and preparation of application materials (resume, cover letter). Guest lecturers, plant tours, films, student and faculty presentations arranged in seminar fashion. Recommended for junior year.
- 4801-Senior Problem in Engineering Technology.** One to three credits. All required freshman-, sophomore-, and junior-level courses in all disciplines have to be completed before registering for this course. Engineering situations are solved by experimental means. Student must have experimental approach, gather data, interpret results, and prepare a formal technical written and oral report.
- 4801 Computer Engineering Technology.** Prerequisites: ET 4670; CSCI 3160.
- 4802 Electro/Mechanical Engineering Technology.** Prerequisites: ET 3650, 3860, 4610, and 4860.
- 4803 Mechanical Engineering Technology.** Prerequisites: ET 3860, 4340, and 4815.
- 4804 Design Engineering Technology.** Prerequisites: ET 3840, 3860, and 4340.
- 4815 Heating, Ventilation, and Air Conditioning.** Three credits. Prerequisite: ET 3810 or permission of instructor. Design and operation of heat and mass transfer systems which produce the needed environments for manufacturing operations, industrial processes, and human comfort. Systems that use mechanical equipment such as pumps, blowers, fans, compressors, and heat exchanges found in fields such as air conditioning, low temperature metallurgy, food preservation, chemical processing, and industrial manufacturing covered. Lecture and laboratory.
- 4830 Vibration.** Three credits. Provides a broad-based background in vibration analysis and introduces present practices. Topics include free, damped, and forced vibrations with one degree of freedom; vibration isolation; free vibration with two degrees of freedom; and introduction to matrix formulation. Lecture, laboratory, and problem solving.
- 4850 Fluid Power.** Three credits. Prerequisites: ET 1840, 3810. Systems and the basic components that make up these systems, including hydraulic, pneumatic, and fluidic. Emphasis on un-

Understanding the language and graphic symbols associated with fluid power and the performance characteristics of system components. Lecture, laboratory, and problem solving.

- 4860 Robotics.** Three credits. Prerequisites: ET 4850; MATH 1910; CSCI (3 hours). Fundamentals of robots. Types of robots, types of controls, the prime movers, and the application of robots in the industrial environment. Lecture, laboratory, and problem solving.
- 4900 Productivity Strategies.** Three credits. Prerequisite: ET 3910 or equivalent. Analysis, design, and implementation of productivity strategies and productivity improvement programs for a wide variety of organizations. Touches a spectrum of disciplines such as work design, quality, design engineering, and employee involvement.
- 4910 Maintenance Management.** Three credits. Prerequisite: ET 3910. Overview of maintenance management in an organizational setting such as manufacturing, hospitals, airlines, or large maintenance shops. Application of work measurement and labor utilization controls with emphasis on preventative and predictive maintenance techniques. Computer applications highlighted.
- 4920 Plant Layout and Materials Handling.** Three credits. Prerequisites: ET 2310 and 3910. An overview of facility planning including equipment selection, work flow analysis, activity relationship analysis, and plant layout for product, process, and JIT requirements. Teams assigned actual projects in industry. CAD layout presentations to industry management required.
- 4970 Engineering Economy.** Three credits. Development of capital budgets. Justification of capital projects using time value of money concepts. Replacement analysis. Review of justification of actual capital projects and computer applications.
- 4980 Federal and State Safety Legislation.** Three credits. Corequisite: ET 3910 or permission of instructor. The Federal Occupational Safety and Health Act (OSHA) and the Tennessee Occupational Safety and Health Act (TOSHA) Environmental Protection Agency; rules and regulations and how they apply to industry.
- 4990 Industrial Engineering Systems.** Three credits. Prerequisite: ET 3910. System design of work tasks including establishing time standards by time and motion study and work sampling; ergonomic design for integration of the human into the work task environment. Scientific methods supplemented by quality considerations with emphasis on statistical quality control (SQC). Computer software used for design and analysis.



## Courses in Industrial Education [IED]

- 3050 Occupational Teaching Internship I.** Three credits. A supervised teaching experience at a post secondary or secondary school offering occupational training, composed of teaching one half-day course for 15 weeks (or the equivalent). Students given opportunities to apply methods and principles learned in professional courses under the guidance of an experienced supervisor.
- 3060 Occupational Teaching Internship II.** Three credits. A continuation of IED 3050.
- 4000 Program Development and Modification for the Special Needs Learner.** Three credits. Basic strategies for identifying and working with special needs learners in occupational education.
- 4010 History and Philosophy of Industrial Education.** Three credits. Relation to the development of industrial education stressed.
- 4030 Course Development in Occupational and Technology Education.** Three credits. Basic techniques including occupational analysis, preparing objectives, planning a learning sequence, preparing learning activities, selecting and preparing learning resources, and evaluating student performance.
- 4040 Methods of Teaching Occupational and Technology Education.** Three credits. Understanding and skills required for individualizing instruction in occupational and technology education.
- 4060 Organization and Operation of Occupational Student Organizations.** Three credits. Orientation to incorporating student organizations in occupational education programs. Emphasis on establishing an organization, planning chapter activities, utilizing community resources, chapter business procedures and competitive activities.
- 4070 Laboratory Organization and Classroom Management.** Three credits. Laboratory planning and layout, supplies and equipment purchasing, inventory and record keeping, laboratory maintenance, class organization, and safety.
- 4480 Topics in Industrial Education.** One to six credits. Subject topics offered as required to meet the needs of the class.

## Courses in Environmental Science and Technology [EST]

- 2810 Introduction to Environmental Science.** Three credits. The technical, economic, and political aspects of environmental science. Introduction to specific problems dealing with many pollution issues. Specific monitoring, abatement techniques, and equipment. An overview of energy production processes, industrial pollution problems, air, noise, solid and hazardous wastes, along with economic and environmental concerns. Field trips, lecture, and research projects and/or papers highlight specific topics of special interest to students.
- 4760-Seminar in Environmental Science and Technology.** One credit each. NOTE: These courses are required for a major in Environmental Science and Technology. Four interdisciplinary seminars conducted jointly among Agribusiness and Agriscience, Biology, Chemistry, Physics and Astronomy, and Engineering Technology and Industrial Studies. Guest lecturers, agency and resource personnel, readings, reflective thought, films, and discussions on environmental problems and issues, new and pro-

posed legislation, and the role of environmental science and technology in pollution control.

**4770 Pollution Control Technology.** Four credits. NOTE: This course is required for a major in Environmental Science and Technology. Prerequisites: 8 hours each in biology, chemistry, and physics, or consent of instructor. Solid waste and water pollution control technology. Legislative regulations and quality standards, pollution types and sources, detection and analysis instruments, and treatment or abatement principles and practices.

**4780 Air, Solids, and Noise Pollution Technology.** Four credits. Prerequisites: 8 hours each chemistry, biology, and physics or permission of instructor. Air, noise, solid and hazardous waste pollution technology, including legislative regulations and quality standards: sources, detection, and analysis instrumentation and practices, and treatment and abatement principles, equipment, and practices.

**4810 Energy and the Environment.** Three credits. NOTE: This course is required for a major in Environmental Science and Technology. Prerequisites: 4 hours chemistry and 3 hours mathematics or consent of instructor. Sources and methods of energy production and classifications of energy usages, with emphasis on usage trends, energy conservation strategies, and alternate energy utilization.

**4820 Solar Building Design.** Three credits. Prerequisites: 4 hours science and 3 hours mathematics or consent of instructor. Broad introduction to the environmental and economic impact of solar energy for residential and light industrial construction including day lighting, passive solar design, and hot water heating.

**4840 Energy Auditing.** Three credits. Prerequisites: 4 hours chemistry and 3 hours mathematics or consent of instructor. Types of energy consumption and classifications of energy usages, with emphasis on conservation strategies and total management for residential and industrial plants.

**4980 Environmental Public Health.** Three credits. Prerequisites: 8 hours college biology and 8 hours college chemistry. Applying the sciences of biology, chemistry, statistics, and environmental engineering to the field of public health. Public health epidemiology and disease control concepts related to the anticipation, recognition, assessment, and control of common public health disease problems.

### Honors College

The Department of Engineering Technology and Industrial Studies offers periodically the following courses in Honors:

ET 2310 Computer-Assisted Drafting/Design I

ET 3610 Introduction to Electricity/Electronics

ET 3910 Introduction to Industrial Management

### Graduate Study

The Engineering Technology and Industrial Studies Department offers the Master of Science with thesis and non-thesis options. Requirements and a list of graduate courses offered may be found in the graduate catalog.



# Department of Mathematical Sciences

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**Curtis Church, Chair**  
KOM 223D

Balch, Barnwal, Beck, Bloomer, Campbell, Chappell, Enderson, Garrison, Hankins, Hart, Khansari, Kholodnyi, Kimmins, Krishnamani, Lea, Luo, Martin, McSweeney, M. Melnikov, Y. Melnikov, Miller, Moon, Morris, Nelson, Parr, Powell, Rowell, Sinkala, Tenpenny, Truitt, Walsh, Winters, Worsey, Yang, Zha, J. Zijlstra, R. Zijlstra

The purpose of the Department of Mathematical Sciences is to provide students education in the mathematical sciences necessary to function and succeed in an increasingly complex, technological world.

Courses offered by the department are designed to prepare students who plan to enter graduate schools or professional schools of medicine or engineering; to teach in elementary schools, secondary schools, or community colleges; to major in mathematics, in computer science, in the natural or physical sciences, or in other areas with mathematics requirements; or to enter careers in business, industry, or government. Courses also are provided to meet cultural and General Education requirements.

Programs in the department lead to the Bachelor of Science degree with a major in Mathematics. Students choose one of the following concentrations: Professional Mathematics, Mathematics Education, Applications of Mathematics, or Actuarial Science. Minors are offered in Mathematics; in Mathematics for Managerial, Social, and Life Sciences; and in Statistics.

The following specialized courses do not count toward a Mathematics major or minor: MATH 1010, 1410, 1420, 1530, 1630, 1710, 1720, 1730, 1810, 1820, 2090, 2130, and 4010. However, MATH 1530, 1630, 1710, 1720, 1730, 1810, 1820, and 2130 may count toward a minor in Mathematics for Managerial, Social, and Life Sciences.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

## Major in Mathematics

A major in Mathematics requires the mathematics core of 21 hours plus 15 hours of specified upper-level courses in the department and at least 12 hours of supporting coursework (either in or out of the department). The supporting coursework must complement the student's program and be approved by the mathematics advisor. A single minor outside the department is required.

Every Mathematics major is required to declare a concentration. Concentrations include Professional Mathematics, Mathematics Education, Applications of Mathematics, and Actuarial Science.

Every Mathematics major is required to complete the Seminar in Mathematics, MATH 4990. All courses in the Mathematics major or minor must be completed with a grade of C or better. All courses transferred from other institutions for credit in the Mathematics major or minor must carry a grade of C or better and be approved by the department chair.

### Mathematics Core

Each student majoring in the department must complete the following core (21 hours):

MATH 1910 (Calculus I), 4 hours  
 MATH 1920 (Calculus II), 4 hours  
 MATH 3110 (Calculus III), 4 hours  
 MATH 2010 (Elements of Linear Algebra), 3 hours  
 MATH 3460 (Foundations of Higher Mathematics), 3 hours  
 MATH 2050 (Probability and Statistics), 3 hours\* OR  
 STAT 3150 (Mathematical Statistics I), 3 hours

\*Students in the Mathematics Education concentration must concurrently enroll in MATH 2110 (Data Analysis, 1 hour). Students with a concentration in Actuarial Science may substitute MATH 1810, 1820, 3020, and 3030 for MATH 1910, 1920, and 3110; STAT 3150 for MATH 2010; and ACSI 4200 for MATH 3460.

### Concentration: Professional Mathematics

Students opting to study the discipline of mathematics will choose between tracks in general mathematics and advanced mathematics. In addition to the mathematics core, they will take 9 additional upper-level courses in the department chosen with the approval of the mathematics advisor. A single minor outside of the department and CSCI 1170 are required.

### Advanced Mathematics Track

Students interested in preparing for a graduate degree in mathematics should pursue this track. In addition to the mathematics core, they must take MATH 3120, 4250, 4510; two courses from MATH 3260, 4230, 4270, 4420, 4530, 4700; and 12 hours of approved supporting coursework chosen from among upper-level courses in the department and CSCI 3080. The program must include at least one sequence in either algebra (4420/4510), analysis (4230-4250), or differential equations (3120-3260). Six hours of a foreign language are recommended.

**Students should consult their advisors each semester to plan their schedules.**

### Curriculum Requirements and Recommended Sequence for Professional Mathematics-Advanced

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	COMM 2200 (Comm)	3
MATH 1910 (Math)	4	MATH 2010, 3110, 3460	10
MATH 1920	4	CSCI/MATH upper-division elective	3
MATH 2050	3	Natural Sciences	4
Natural Sciences	4	HIST 2010, 2020, or 2030	6
CSCI 1170	4	Minor	3
Minor	3		<b>29</b>
Humanities and/or Fine Arts	3		
	<b>31</b>		

JUNIOR		SENIOR	
MATH 3120, 4510	6	MATH 4250, 4990	6
Math electives	6	CSCI/MATH electives	6
Minor	6	Minor	6
Social/Behavioral Sciences (2 prefixes)	6	Electives	12
Humanities and/or Fine Arts	3		<b>30</b>
ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3		
	<b>30</b>		

### General Mathematics Track

Students desiring a broad general background in mathematics should pursue this track. In addition to the mathematics core, they must take MATH 3120, 4510; three additional courses from MATH 3260, 3400, 4230, 4250, 4270, 4310, 4320, 4420, 4530, 4700, STAT 3150, 4190; and 12 hours of approved supporting coursework chosen from among upper-level courses in the department and CSCI 3080.

**Students should consult their advisors each semester to plan their schedules.**

### Concentration: Mathematics Education

Students preparing to teach mathematics at the secondary level (grades 7-12) must complete the major in Mathematics with a concentration in Mathematics Education. In addition to the mathematics core, they must take as upper-division coursework MATH 3070, 4510, 4620, 4990, and one upper-division elective in the department. Supporting coursework consists of MATH 3320, 3330, 4540, and CSCI 1170. A minor in secondary education is required. (See Department of Educational Leadership for a complete description.) Students seeking state licensure must also pass all applicable portions of the Praxis Series Exams, developed and administered by the Educational Testing Service. For the latest information regarding these exams contact the Office of Testing Services (KUC 327, 898-2863). To complete their programs of study in a timely manner, **students must consult their major and minor advisors each semester.**

### Curriculum Requirements and Recommended Sequence for Mathematics Education

FRESHMAN		SOPHOMORE	
MATH 1910 (Math)	4	MATH 2010, 3110, 3460, 3070	13
MATH 1920, 2050, 2110	8	CSCI elective	3
ENGL 1010, 1020 (Comm)	6	COMM 2200 (Comm)	3
Humanities and/or Fine Arts	3	HIST 2010, 2020, or 2030	6
Natural Sciences (2 prefixes)	8	ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
FOED 1110§	3	FOED 2110§	3
	<b>32</b>		<b>31</b>

JUNIOR		SENIOR	
MATH 3320, 3330, 4510, 4540	12	MATH 4620, 4990	6
MATH elective*	3	Secondary Education minor§	15
Social/Behavioral Sciences (2 prefixes)	6	Humanities and/or Fine Arts Elective	3
Secondary Education minor§	9		3
	<b>30</b>		<b>27</b>

\*Approved by advisor

§The Secondary Education minor has been revised. Please see page 193 and contact the Educational Leadership Department for information.

### Concentration: Applications of Mathematics

Students desiring to study applications of mathematics and statistics in business, government, and industry may choose between tracks in statistics, business, or industrial mathematics. All three tracks blend theory and practice to provide students with background for employment or graduate studies.

#### Statistics Track

The statistics track offers students a program of study in one of the broadest areas of applied mathematics. Statistical methods are used in many fields, including agriculture, business, communications, government, health, industry, public policy, sports, and science. Courses provide students the opportunity to learn data analysis and to develop skills in statistical methods of wide application. Emphasizing a blend of theory and practice, the program is designed to provide students with the necessary background for employment as a statistician in the public or private sector and to provide a solid foundation for those students interested in graduate studies.

In addition to the mathematics core, students pursuing this track must take STAT 3150 and 4190; MATH 4990; and two courses from STAT 4200, 4320, 4360, 4370, 4380. One minor outside the department is required. Students also complete supporting coursework of 12 hours that complement the student's program chosen with approval of the statistics advisor. These courses include computing, information systems, and other relevant courses.

**Students should consult their advisors each semester to plan their schedules.**

#### Curriculum Requirements and Recommended Sequence for Applied Mathematics-Statistics

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	COMM 2200 (Comm)	3
MATH 1910 (Math)	4	MATH 3110, 2010, 2050	10
MATH 1920	4	Minor	6
Natural Sciences	4	Natural Sciences	4
Support course*	6	HIST 2010, 2020, or 2030	6
Humanities and/or Fine Arts	3		<b>29</b>
Social/Behavioral Sciences	3		
	<b>30</b>		

JUNIOR		SENIOR	
MATH 3460	3	STAT elective**	3
STAT 3150, 4190	6	MATH 4990	3
STAT elective**	3	Support course*	3
Support course*	3	Minor	6
Minor	6	Humanities and/or Fine Arts Electives	3
Social/Behavioral Sciences	3		<b>13</b>
ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3		<b>31</b>
Elective	3		
	<b>30</b>		

\*Approved by advisor

\*\*STAT 4200, 4320, 4360, 4370, 4380

#### Business Track

This track is appropriate for students who seek a broad background from such diverse but mutually supportive areas as mathematics, statistics, computer science, and business. The program prepares students for the job market or for further study in the more specialized areas of actuarial science, operations research, statistics, computer science, or finance.

In addition to the mathematics core, students pursuing this track must take STAT 4190, ACSI 4200, and either STAT 4200 or 4360. The supporting coursework consists of 12 hours of computer science or information systems courses. The student must complete a minor in the Jennings A. Jones College of Business as well as ACTG 2110 and 2120 or 3000 and ECON 2410, 2420.

**Students should consult their advisors each semester to plan their schedules.**

#### Curriculum Requirements and Recommended Sequence for Applied Mathematics-Business

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	COMM 2200 (Comm)	3
MATH 1910 (Math)	4	MATH 2010, 3110, 3460	10
MATH 1920	4	ECON 2410 (Soc/Beh Sci)	3
Computing courses	6	ECON 2420	3
Natural Sciences	4	HIST 2010, 2020, or 2030	6
Humanities and/or Fine Arts	3	Natural Sciences	4
Social/Behavioral Sciences	3	Elective	3
	<b>30</b>		<b>32</b>

JUNIOR		SENIOR	
STAT 3150, 4190	6	STAT 4360 or 4200	3
ACSI/MATH 4200	3	ACSI/STAT electives	6
Computing courses	6	MATH 4990	3
ACTG 2110 and 2120 or ACTG 3000	3-6	Humanities and/or Fine Arts	3
Minor	6	Minor	12
ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3	Electives	1-4
	<b>27-30</b>		<b>28-31</b>

#### Industrial Mathematics Track

The industrial mathematics track offers students a program of study that incorporates the areas of mathematics that contribute to business and industry. Coursework is designed to produce graduates who have strong qualifications that make them competitive for positions in industry and provides a solid foundation for students interested in pursuing graduate study in the area. The minor must be chosen from Computer Science, Physics, Chemistry, Biology, Aerospace, or Industrial Technology.

In addition to the mathematics core, students pursuing this track must take MATH 3120, 3260, 4250, and 4310. Required supporting coursework includes CSCI 1170 and 2170. Nine additional hours of supporting coursework must be chosen with the approval of the mathematics advisor from MATH 4601, 4230, 4270, 4320, 4700 and STAT 4190.

**Students should consult their advisors each semester to plan their schedules.**

**Curriculum Requirements and Recommended Sequence for Applied Mathematics-Industrial Mathematics**

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	-
MATH 1910 (Math)	4	HUM 2610 (Hum/FA)	3
MATH 1920	4	MATH 3110, 3460	7
CSCI 1170, 2170	8	PHYS 2110/2111 (Nat Sci)	4
Natural Sciences	4	PHYS 2120/2121	4
COMM 2200 (Comm)	3	Social/Behavioral Sciences	3
HIST 2010, 2020, or 2030	3	Humanities and/or Fine Arts	3
	<b>32</b>	Minor	6
			<b>30</b>

JUNIOR		SENIOR	
MATH 2010, 4250	6	MATH 4310	3
STAT 3150 or MATH 2050	3	MATH 4990	3
MATH 3120, 3260	6	MATH/STAT electives	9
Social/Behavioral Sciences	3	Minor	6
Minor	6	Humanities and/or Fine Arts	3
MATH elective*	3	Electives	4
HIST 2010, 2020, or 2030	3		<b>28</b>
	<b>30</b>		

\*Approved by advisor

**Concentration: Actuarial Science**

The Actuarial Science concentration is designed for students who have a strong mathematical ability with an interest in applying their mathematical knowledge to insurance, finance, risk management, investments, and other areas of business. The program is classified by the Society of Actuaries (SOA) as an Advanced Undergraduate Actuarial Science program and is in complete compliance with the requirements set forth by the Society of Actuaries and the Casualty Actuarial Society (CAS) in the Year 2000 Syllabus and beyond. Therefore, the student can choose coursework necessary to prepare for the SOA/CAS Course/Exams 1 through 4 and SOA Course 6.

Mathematics majors preparing for the actuarial examination series and an actuarial science career should complete this professional program in Actuarial Science. The program requires that the student complete the mathematics core; upper-division actuarial science courses consisting of ACSI 4140, 4220, 4230, 4330, and two elective courses chosen from ACSI 4240, 4340, 4630, 4640; STAT 4200; and supporting coursework consisting of STAT 4190 and 4320 and MATH 4990. The student is required to complete ACTG 3000, ECON 2410, 2420, and FIN 3610. A minor from the Jennings A. Jones College of Business is required. A minor in Insurance is strongly suggested. A Computer Science or Information Systems elective and CSCI 1170 are required.

**Students should consult their advisors each semester to plan their schedules.**

**Curriculum Requirements and Recommended Sequence for Actuarial Science**

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	COMM 2200 (Comm)	3
MATH 1810 (Math)	3	MATH 3020, 3030	6
MATH 1820	3	ENGL 2020 or 2030 or	-
CSCI 1170	4	HUM 2610 (Hum/FA)	3
Natural Sciences (2 prefixes)	8	ECON 2410 (Soc/Beh Sci)	3
Social/Behavioral Sciences	3	ECON 2420	3
Humanities and/or Fine Arts	3	HIST 2010, 2020, or 2030	6
	<b>30</b>	ACTG 3000	3
		Elective	3
			<b>30</b>

JUNIOR		SENIOR	
STAT 3150 (or MATH 2010), 4190, 4320	9	ACSI 4330, 4230	6
ACSI 4140, 4200, 4220	9	STAT/ACSI electives	6
FIN 3610	3	MATH 4990	3
Minor	6	Humanities and/or Fine Arts	3
CSCI/INFS elective*	3	Elective	3
	<b>30</b>		<b>30</b>

\*Approved by advisor

**Minor in Mathematics**

A minor in Mathematics consists of 18 semester hours including MATH 1910 and 1920. The remaining 10 hours of electives must be selected with the approval of the Mathematics minor advisor from the mathematics courses for majors and minors.

**Minor in Mathematics for Managerial, Social, and Life Sciences**

A minor in Mathematics for Managerial, Social, and Life Sciences consists of 18 semester hours including MATH 1810 and 1820 with the remaining 12 hours as approved by the minor advisor. The remaining courses must be selected from a list of approved courses; see the minor advisor for details. Note that a student may count Q M 2610 and 3620 as one 3-hour course and may count CSCI 1160 or 1170 as one 3-hour course.

**Minor in Statistics**

A minor in Statistics requires 18 semester hours and consists of STAT 3150, 4190, 4360, 4370, 4380 and one course to be selected from MATH 3190, 3120, 3260, 4310, 4320, or CSCI 3180. With advisor approval, MATH 2050 may be substituted for either STAT 4190, 4360, 4370, or 4380. Additionally, with advisor approval, one semester of calculus may be counted as the elective course.

**Courses in Mathematics [MATH]**

**1010 Mathematics for General Studies.** Three credits. Prerequisites: Two years of high school algebra and a MATH Enhanced ACT of at least 19 or DSPM 0850 or COMPASS placement. Course satisfies the General Education Mathematics requirement and is also part of the mathematics sequence for students preparing to become elementary school teachers. Topics include logic, sets, algebraic reasoning, probability, statistics, and consumer mathematics.



- 1410 Concepts and Structure of Elementary School Mathematics.** Three credits. Prerequisites: Two years of high school algebra and a Math Enhanced ACT of at least 19 or DSPM 0850 or COMPASS placement. Algebra-based study of school mathematics in keeping with the recommendations of the National Council of Teachers of Mathematics. Tools for problem solving, set theory, functions, number theory, and examinations of number systems from counting numbers to irrational numbers.
- 1420 Informal Geometry.** Three credits. Prerequisite: A grade of C or better in MATH 1410. Geometry-based study of school mathematics in keeping with the recommendations of the National Council of Teachers of Mathematics. Studies of plane, solid, coordinate, and motion geometry as well as constructions, congruence, similarity, and concepts of measurement. A variety of instructional technology tools investigated.
- 1530 Applied Statistics.** Three credits. Prerequisites: Two years of high school algebra and a mathematics Enhanced ACT 19 or greater or equivalent. Descriptive statistics, probability, and statistical inference. The inference unit covers means, proportions, and variances for one and two samples, and topics from one-way ANOVA, regression and correlation analysis, chi-square analysis, and nonparametrics.
- 1630 College Mathematics for Managerial, Social, and Life Sciences.** Three credits. Prerequisites: Two years of high school algebra and a Math Enhanced ACT greater than 25 or MATH 1710. Topics include solving systems of linear equations, Leontief models, linear programming, mathematics of finance, set theory, and probability theory.
- 1710 College Algebra.** Three credits. Prerequisite: DSPM 0850 or two years of high school algebra; a Math Enhanced ACT 19 or greater or COMPASS placement. Course satisfies the General Education Mathematics requirement. Topics include functions—linear, quadratic, exponential, and logarithmic; analysis of graphs; linear systems; inequalities; counting principles; and probability. Graphing calculator required. Course may be taken by correspondence. Not open to those who have had MATH 1730.
- 1720 Plane Trigonometry.** Three credits. Prerequisite: Strong background in algebra recommended. Trigonometric functions of the acute and general angle, circular functions, graphs of trigonometric and inverse functions, identities, solutions of right and general triangles, equations, complex numbers, and vectors. Not open to those who have had MATH 1730. Graphing calculator required.
- 1730 Algebra and Trigonometry.** Four credits. Prerequisite: MATH 1710 or successful completion of high school precalculus course. An integrated and rigorous study of the algebra and trigonometry needed to successfully attempt calculus. Emphasis on functions, their analysis and their applications. Level of algebraic sophistication developed above that found in MATH 1710. Topics included exponentials and logarithms, analysis of graphs, and word problems. Graphing calculator required.
- 1810 Applied Calculus I.** Three credits. Prerequisite: Eligibility to take MATH 1710. First of a four-course sequence. Introduces mathematical modeling applied to real-world problems. Sets, functions, inverse models, limits, continuity, first and second order model building, single variable differentiation, implicit differentiation, inverse problems (exponential and log models). First and second derivatives used to study the behavior of real-world applications.
- 1820 Applied Calculus II.** Three credits. Prerequisite: MATH 1810. Second of a four-course sequence. Riemann Sum, indefinite and definite integrals, modeling using substitution, differential equations with initial conditions, modeling real-world problems using functions of two or more variables, level curves, feasible regions, linear objective functions, system of linear equations, annuities, partial derivatives, least squares, matrix multiplication and addition, inverse matrix, and matrix equations.
- 1910 Calculus I.** Four credits. Prerequisite: MATH 1730 or equivalent. An introduction to calculus with an emphasis on analysis of functions, multidisciplinary applications of calculus, and theoretical understanding of differentiation and integration. Topics include the definition of the derivative, differentiation techniques, and applications of the derivative. Calculus topics related to trigonometric, exponential, and logarithmic functions also included. Course concludes with the fundamental theorem of calculus; the definition of antiderivation and the definite integral; basic applications of integrations; and introductory techniques of integration. Graphing calculator required.
- 1920 Calculus II.** Four credits. Prerequisite: MATH 1910. A topics course providing a wide view of different techniques and applications of calculus in the plane. Techniques of integration and applications of integration fully developed. Power series and Taylor series included. Emphasis on multidisciplinary applications includes Taylor series approximation; applications of integration to physics, biology, and business; and geometric and power series applications. Graphing calculator required.
- 2010 Elements of Linear Algebra.** Three credits. Prerequisite: MATH 1910. Vectors and vector spaces, matrices and systems of linear equations, geometry of vector spaces and linear transformations in a vector space.
- 2050 Probability and Statistics.** Three credits. Prerequisite: Calculus I. Data analysis, probability, and statistical inference. The inference material covers means, proportions, and variances for one and two samples, one-way ANOVA, regression and correlation, and chi-square analysis.
- 2090 Mathematics for Health Professions.** Two credits. Enables students in the health professions to apply mathematical concepts to interpret and solve drug dosage calculation problems encountered in fields such as nursing. Includes basic math review, solid and liquid doses of medications for adults and children, solutions, and IV administration. Also includes conversions from metric to household and apothecary measurements. Course may be taken by correspondence. Not open to Mathematics majors or minors.
- 2110 Data Analysis.** One credit. Grouping and classifying technical data. Curve fitting by statistical and nonstatistical methods. Graphing of scientific data. Secondary education in mathematics students should take concurrent or subsequent to MATH 2050.
- 2130 Mathematics of Finance.** Three credits. Prerequisites: Two years of high school algebra and a Math Enhanced ACT 19 or greater or DSPM 0850. Investment finance, including general annuities, evaluation of bonds, and life annuities.
- 3020 Applied Calculus III.** Three credits. Prerequisites: MATH 1810 and 1820. In-depth study of continuity of single variable functions; inverses of functions; differentiation and integration of various functions including trigonometric functions, logarithmic

functions, exponential functions, power functions, and piecewise functions; methods of integration; the Riemann Sum, extensive applications of the fundamental theorem of calculus, and arc length of a curve. Emphasis on real-world applications.

- 3030 Applied Calculus IV.** Three credits. (Same as ACSI 3030.) Prerequisite: MATH 3020. In-depth study of L'Hopital's Rule, improper integrals, sequences, convergence and divergence of series, Taylor and Maclaurin series, approximations for single-variable functions, two- and three-dimensional vector spaces, vector-valued functions, polar coordinates, and partial differentiation and integration of multivariate functions. Emphasis on blending these topics with real-world applications.
- 3070 College Geometry.** Three credits. Prerequisite: MATH 3460. Advanced treatment of standard topics in Euclidean geometry using informal and axiomatic approaches. Includes proofmaking techniques, traditional and transformational geometry, finite geometries, and a brief introduction to other geometries.
- 3080 Discrete Structures.** Three credits. (Same as CSCI 3080.) Prerequisites: CSCI 1160 or 1170 and MATH 1910 or consent of instructor. Topics include formal logic, proof techniques, matrices, graphs, formal grammars, finite state machines, Turing machines, and binary coding schemes.
- 3110 Calculus III.** Four credits. Prerequisite: MATH 1920. Adjusts calculus techniques developed in the plane (Calculus I and II) to make them applicable in three-dimensional space. Introductory study of the nature of three-dimensional space and definition of the algebraic calculations in three-dimensional space. Differential and integral calculus definitions and techniques revised to appropriately transfer into this new space. Topics include multivariate functions, partial differentiation, partial integration, multiple integration, and multidisciplinary applications.
- 3120 Differential Equations I.** Three credits. Corequisite: MATH 3110. The solution and application of ordinary differential equations with emphasis on first order equations, second order linear equations, Laplace Transform method, systems of differential equations, and numerical methods.
- 3180 Introduction to Numerical Analysis.** Three credits. (Same as CSCI 3180.) Prerequisites: MATH 1920 and CSCI 1160 or 1170. Topics include series approximation, finite differences, interpolation, summation, numerical differentiation and integration, iteration, curve fitting, systems of equations and matrices, and error analysis.
- 3190 Deterministic and Probabilistic Models.** Three credits. Corequisite: MATH 2050. Linear programming, network analysis, queuing theory, dynamic programming.
- 3260 Differential Equations II.** Three credits. Prerequisite: MATH 3120. A continuation of MATH 3120 with emphasis on series solutions, method of Frobenius, orthogonal functions, equations of Bessel, Legendre, Gauss, Chebyshev; introduction to partial differential equations.
- 3320 Teaching Mathematics in Grades 5-8.** Three credits. Prerequisite: Admission to the teacher education program. Required of all Mathematics majors seeking a license to teach mathematics in grades 7-12. Strongly encouraged for elementary education majors with a 5-8 emphasis. Topics from number relationships, mental computation and estimation strategies, patterns and functions, algebra, statistics, probability, geometry, and measurement. Must be taken prior to student teaching.
- 3330 Teaching Mathematics in Grades 9-12.** Three credits. Prerequisites: Admission to teacher education, completion of the mathematics core, and MATH 3320. Required of all Mathematics majors seeking a license to teach mathematics in grades 7-12. In-depth study of mathematics learning and teaching strategies in secondary school mathematics. Selected topics from junior and senior high school curricula provide a foundation for student investigations into the conceptual nature of mathematics and applications in the secondary school curriculum. Must be taken prior to student teaching.
- 3400 Symbolic Logic.** Three credits. (Same as PHIL 3400.) The elements of propositional calculus—propositional connectives and their truth functions, validity, proof, and an introduction to quantification theory. Where appropriate and natural, parallels from elementary set theory are introduced. May count for credit in Philosophy.
- 3460 Foundation of Higher Mathematics.** Three credits. Prerequisite: MATH 1920. The language of mathematics, set theory and proof, relations and functions, number systems, mathematical structures. Focuses on the transition from lower-division study to upper-division study by actively engaging the student in problem solving, mathematical reasoning, and both informal and technical writing.
- 4010 Selected Topics in Elementary Mathematics.** Three credits. Prerequisites: MATH 1410, 1420, and 1010. Required of students who are preparing to teach grades 5-8. Examines in greater depth topics to which the student has prior exposure; emphasizes the relevance and implications of these topics to the middle school classroom.
- 4200 Introduction to Mathematics of Investment.** Three credits. (Same as ACSI 4200.)
- 4210 Advanced Calculus I.** Three credits. Prerequisites: MATH 3110 and 3460. Theory and application of continuity, differentiation, and integration.
- 4220 Advanced Calculus II.** Three credits. Prerequisite: MATH 4210. A continuation of MATH 4210 including theory and application of convergence.
- 4230 Vector Analysis.** Three credits. Prerequisite: MATH 3110. A review of vector algebra and vector differentiation with emphasis on aspects of these topics not covered in previous calculus courses. Stress on line and surface integrals; Divergence Theorem and Stokes' theorem with generalizations and related topics.
- 4250 Theory of Calculus.** Three credits. Prerequisites: MATH 3110 and 3460. Theoretical development of limits, continuity, differentiation, and integration in one dimension.
- 4270 Introduction to Topology.** Three credits. Prerequisites: MATH 3110 and 3460. Fundamental concepts of topology including continuity, compactness, connectedness, separation axioms, and metric spaces.
- 4310 Numerical Analysis I.** Three credits. Prerequisites: CSCI 1170 and MATH 2010 or consent of instructor. Application of computer-oriented numerical algorithms to algebraic equations, differential and integral equations, and linear algebra. Rigorous mathematical treatment of error included.

- 4320 Numerical Analysis II.** Three credits. Prerequisite: MATH 4310. A continuation of MATH 4310.
- 4420 Number Theory.** Three credits. Prerequisite: MATH 3460. Divisibility, congruences, quadratic residues, Diophantine equations, quadratic forms, and continued fractions.
- 4470 Introduction to Modern Algebra.** Three credits. Prerequisite: MATH 3460. A treatment of sets, relations, operations, and the construction of number systems in algebra.
- 4510 Abstract Algebra I.** Three credits. Prerequisite: MATH 3460. An introduction to groups, with a brief introduction to rings, integral domains, and fields.
- 4530 Abstract Algebra II.** Three credits. Prerequisite: MATH 4510/5510. The theory of rings, fields, integral domains, and vector spaces.
- 4540 Topics in Secondary School Mathematics.** Three credits. Prerequisites: Admission to teacher education, completion of the mathematics core, MATH 3070 and 4510. Required of all Mathematics majors seeking a license to teach mathematics in grades 7-12. Examines in greater depth topics to which the student has prior exposure; emphasizes the relevance and applications of these topics to the pre-college level classroom.
- 4600 Problems in Contemporary Mathematics.** One to six credits. Pass/Fail grading in specified sections.
- 4601 Problems in Contemporary Mathematics—Complex Variables.** Three credits. Prerequisite: MATH 3460. Fundamental principles and applications of complex variables.
- 4620 History and Philosophy of Mathematics.** Three credits. Prerequisite: MATH 3460. Background in geometry and number theory helpful. The character of mathematical thought by way of mathematical problems that have occupied the outstanding mathematicians of Babylon, Egypt, Greece, China, the Renaissance, and modern times paralleled with a study of three schools of mathematical philosophy: intuitionism, logicism, and formalism.
- 4630 Mathematics of Risk Management.** Three credits. (Same as ACSI 4630.)
- 4640 Mathematics of Options, Futures, and Other Derivatives.** Three credits. (Same as ACSI 4640.)
- 4700 Combinatorics and Graph Theory.** Three credits. Prerequisites: MATH 2010 and 3460. Selected topics in combinatorics and graph theory emphasizing combinatorial problem solving and algorithmic proof.
- 4800 Seminar in Mathematics with Technology.** Three credits. Prerequisite: 18 semester hours in mathematics including calculus or consent of instructor. Examine and utilize the technological tools available for doing mathematics. Emphasis on non-numerical tools such as theorem provers and algebraic manipulation systems.
- 4990 Seminar in Mathematics.** Three credits. Open only to Mathematics majors; normally taken during last regular semester of coursework. Required of all Mathematics majors with the exception of those completing ACSI 4000. Offers graduating Mathematics majors a broad perspective of mathematics, mathemati-

cal activity, and problem solving in various areas of application; offers preparation for professional examinations; acquaints students with job possibilities and aids in career decisions; acquaints students with the nature of graduate study in mathematics. Pass/fail.

## Courses in Statistics [STAT]

- 3150 Mathematical Statistics I.** Three credits. Prerequisite: Two semesters of calculus. Probability theory including basic probability laws, properties of distributions, mathematical expectation, special discrete and continuous distributions, functions of random variables, and selected applications.
- 4190 Mathematical Statistics II.** Three credits. Prerequisite: STAT 3150 or equivalent. Theory of statistical inference. Topics include sampling distributions, decision theory, estimation, test of hypothesis, regression analysis, analysis of variance, and selected applications.
- 4200 Statistical Methods for Forecasting.** Three credits. Prerequisite: STAT 4190. Topics include application of regression models in forecasting and exponential smoothing methods to forecast nonseasonal time-series, seasonal series, and globally constant seasonal models; stochastic time series models; and forecast evaluation.
- 4320 Probability and Stochastic Processes.** Three credits. Prerequisites: Two semesters of calculus and STAT 3150 (or MATH 2050) or consent of instructor. Theoretical basis for stochastic processes and their use as models of real-world phenomena. Topics include Markov chains, Poisson processes, Brownian motion and stationary processes. Applications include Gambler's Ruin, birth and death models, hitting times, stock option pricing, and the Black-Scholes model.
- 4360 (436) Regression Analysis.** Three credits. Prerequisite: MATH 2050 or Q M 3620. Theory and application of regression models. Approaches to model building and data analysis. Computation and interpretation of results facilitated through the use of statistical software packages.
- 4370 Nonparametric Statistics.** Three credits. Prerequisite: MATH 2050 or equivalent. Statistical tests that require no assertions about parameters or about the form of the population from which the samples are drawn. A wide range of practical problems studied.
- 4380 Experimental Design.** Three credits. Prerequisite: MATH 2050 or Q M 3620. Topics include one-way analysis of variances, multiple comparison, multifactor analysis of variance, and various practical issues in experimental design. Computation and interpretation of results facilitated through the use of statistical software packages.
- 4600 Problems in Statistics.** One to six credits. Prerequisites: Senior standing and consent of instructor. Students wishing to enroll must submit a written course/topic proposal to the department prior to the semester in which STAT 4600 is taken. Proposal must be approved prior to taking the course. At the conclusion, each enrollee must submit a written report to the department.

## Courses in Actuarial Science [ACSI]

- 4140 Mathematical Foundations of Actuarial Science.** Three credits. Prerequisites: ACSI/MATH 3020 (or MATH 3110) and STAT 3150; or consent of instructor. Integrates calculus, probability, and risk management topics into fundamental tools for assessing risk in an actuarial environment. Calculus and probability topics include derivatives, integrals, partials, random variables, distributions, and conditional probability. Risk topics include frequency and severity. Insurance concepts such as retention, deductible, coinsurance, and risk premiums. For students in Actuarial Science, a preparatory course for the Society of Actuaries/Casualty Actuarial Society Course/Exam 1.
- 4200 Introduction to Mathematics of Investment.** Three credits. (Same as MATH 4200.) Prerequisites: MATH 1910 or ACSI 2020, 2030, and one semester of probability/statistics; or consent of instructor. Calculus and probability/statistics used to model and analyze investments in bonds, treasury bills, stocks, and other derivatives. Topics include obtaining the price of a bond as a function of interest rate, developing formulas for duration and convexity to study the sensitivity of price to interest rate, and mathematical modeling of investor preference and attitude toward risk.
- 4220 Mathematics of Pricing Theory.** Three credits. Prerequisites: ACSI/MATH 4200 and ECON 2410, 2420; or consent of instructor. Applies calculus and theory of interest tools to intermediate topics in microeconomics. Topics include mathematics of supply, demand, and equilibrium; prices, costs, and the gains from trade; consumer behavior; elasticities; competition; monopoly; market power, collusion, and oligopoly; the mathematics of risk and uncertainty; and surplus economics. For students in Actuarial Science, a preparatory course for the Society of Actuaries/Casualty Actuarial Society Course/Exam 2.
- 4230 Mathematics of Compound Interest.** Three credits. Prerequisite: ACSI 4200 or consent of instructor. For students in Actuarial Science, offers preparation for the Society of Actuaries/Casualty Actuarial Society Exam 2. Topics include measurement of interest (including accumulated and present value factors), annuities certain, yield rates, amortization schedules, sinking funds, and bonds and related securities.
- 4240 Mathematics of Interest Theory, Economics and Finance.** Three credits. Prerequisite: ACSI 4230 or consent of instructor. Applies calculus and theory of interest tools to intermediate topics in microeconomics and macroeconomics and topics in finance. Topics include pricing activities, the simplified Keynesian model, interest and discount rates, valuation of payment streams, yield rates, amortization, cash flows and internal rate of return, stock and bond valuation, portfolio risks, the Capital Asset Pricing Model (CAPM), efficient markets, capital structure, leverage, financial performance measurement, and basic option pricing and the Black-Scholes model. For students in Actuarial Science, a preparatory course for the Society of Actuaries/Casualty Actuarial Society Course/Exam 2.
- 4330 Actuarial Mathematics I.** Three credits. Prerequisites: ACSI 4230 and STAT 4190; or consent of instructor. First of a two-semester sequence; offers preparation for the Society of Actuaries/Casualty Actuarial Society Course/Exam 3. Topics include survival distributions and life tables, life insurance, life annuities, and net premiums.
- 4340 Actuarial Mathematics II.** Three credits. Prerequisite: ACSI 4330. Second of a two-semester sequence; offers preparation for the Society of Actuaries/Casualty Actuarial Society Course/Exam 3. Topics chosen from net premium reserves, multiple life functions, multiple decrement models, valuation theory and pension plans, and insurance models (including expenses and non-forfeiture benefits and dividends).
- 4600 Problems in Actuarial Science.** One to six credits. Prerequisites: Senior standing and consent of instructor. Students wishing to enroll must submit a written course/topic proposal to the department prior to the semester in which ACSI 4600 is taken. Proposal must be approved prior to taking the course. At the conclusion, each enrollee must submit a written report to the department.
- 4630 Mathematics of Risk Management.** Three credits. (Same as MATH 4630.) Prerequisite: ACSI/MATH 4200. For students in Actuarial Science, offers preparation for the Society of Actuaries/Casualty Actuarial Society Course 6. Topics include mathematical modeling of volatility; pricing of bonds, stocks, and other derivatives with uncertainty; benchmark portfolios; asset/liability management for property/casualty insurers; liability associated with a financially distressed company. Heath-Jarrow-Morton and Cox-Ingersoll-Ross models.
- 4640 Mathematics of Options, Futures, and Other Derivatives.** Three credits. (Same as MATH 4640.) Prerequisites: ACSI/MATH 4630 and 4200. For students in Actuarial Science, offers preparation for the Society of Actuaries/Casualty Actuarial Society Course 6. Topics include risk management using options, interest rate swaps, interest rate caps, Black-Scholes analysis, Taylor series expansion to obtain hedge parameters, portfolio insurance, numerical procedures, interest rate derivatives, and use of Black's model.

## Honors College

Mathematics 1730, 1710, and 1010 are offered periodically for students in the MTSU Honors College who are not Mathematics majors. Mathematics 4600 is offered periodically for students in MTSU Honors who are Mathematics majors.

## Cooperative Education

MATH 2930, 2940, 3970, 3980. Cooperative Education Experience I, II, III, IV. One to three credits each. Experiences must be taken in sequence. Pass/Fail.

## Graduate Study

The Master of Science and Master of Science in Teaching degrees are offered in mathematics. A minor in Mathematics is offered for masters and Doctor of Arts degrees. Requirements for these degrees and a list of the courses offered for graduate credit are in the Graduate Catalog.



# Department of Military Science

**Lieutenant Colonel Todd A. Overby,  
Professor of Military Science  
Forrest Hall**

**Deel, Evans, Giles, Mann, Riedel, Wright**

The Department of Military Science offers courses applicable to all branches of the United States Army and through which a student can earn an academic minor. These courses give students a broad knowledge of Army leadership, management, and technical skills thereby preparing them for an Army commission and subsequent entrance to an officer's basic branch course at one of the Army service schools. The objectives of producing officers through the ROTC (Reserve Officers Training Corps) program are to

1. provide officers a broad educational base;
2. provide a basic military education for students;
3. teach basic fundamentals and techniques of leadership and management;
4. develop, in conjunction with other academic disciplines, individual character and attributes required of an officer in the U.S. Army.

## Military Science Curriculum

Military Science courses are designed to fulfill the educational and training requirements for commissioning in the U.S. Army (Regular Army, U.S. Army Reserve, or Army National Guard). The curriculum consists of a basic course (first two years) and an advanced course (final two years). The basic course is open to all MTSU students without incurring any military service obligation. Army, Navy, Marine Corps, or Air Force basic training graduates can be placed directly into the advanced course. Advanced placement may also be earned by attending the four-week leader training course at Fort Knox, Kentucky, normally between the sophomore and junior years. The advanced course is offered during the last four semesters of Military Science and includes a five-week summer camp at an Army installation. Upon successful completion of the advanced course and upon graduation from the University, the student will be commissioned a second lieutenant in the United States Army.

### FRESHMAN (Basic)

M S 1010  
M S 1020  
M S 1000\*

### SOPHOMORE (Basic)

1	M S 2010	2
1	M S 2020	2
	M S 1000*	
	M S 3000	6

### JUNIOR (Advanced)

M S 3110  
M S 3120  
M S 3130  
M S 1000\*

### SENIOR (Advanced)

3	M S 4110	3
3	M S 4120	3
6	M S 1000*	

*\*M S 1000 Military Science Practicum is one hour per semester but is limited to a maximum of four hours per student.*

**NOTE:** Prior to commissioning, the Army also currently requires each contracted student to successfully complete one University course in each of the following subjects: written communications, basic computer literacy, and military history.



### Minor in Military Science

A minor in Military Science consists of 20 semester hours and is available to those students who complete all advanced level requirements. The following courses are required of all students: M S 3110 (3 hrs.), 3120 (3 hrs.), 3130 (6 hrs.), 4110 (3 hrs.), 4120 (3 hrs.); and M S 3080 (2 hrs.)

### Army ROTC Scholarship Program

Students enrolled at MTSU are eligible to apply for two- and three-year Army ROTC scholarships which pay for tuition, fees, and a book allowance, plus a monthly stipend per year. High school seniors are eligible to apply for a four-year scholarship during their senior year.

### ROTC Nurse Summer Training Program

This three-week clinical leadership experience is open only to nursing students who have completed one clinical nursing course and M S 3130. The student receives pay; in addition, travel, lodging, and most meal costs are defrayed by the U.S. Army. There is a 120-hour clinical assignment with an Army Nurse Corps preceptor at an Army hospital in the U.S. or overseas. Pass/Fail grading used in determining commission and job opportunities upon graduation.

### Uniforms and Pay

Students enrolled in the basic course do not wear uniforms and are not required to have a particular haircut. Textbooks are provided free of charge.

Advanced course students, junior and seniors, are provided uniforms and textbooks free of charge. They must sign a contract with the U.S. government and complete the advanced course, resulting in an active Army, National Guard, or Army Reserve commission upon graduation. While enrolled in the advanced course, the student receives \$3,500-4,000 per year and approximately \$640 plus travel costs for summer camp attendance.

### Courses in Military Science [M S]

- 1000 Military Science Practicum (Elective).** One credit per semester for up to four credits. Corequisite: Enrollment in M S Basic or Advanced Course or permission of PMS. For those interested in enrichment activities which contribute to the development of leadership and management abilities, including the Forrest Raiders (adventure training and small unit military tactics), Blue Brigade Drill Team (drill and ceremonies under arms).
- 1010 First Year Basic Military Science.** One credit. Practical application skills such as rappelling, marksmanship techniques, and survival. Focus on leadership development with a hands-on approach to classroom instruction. Also includes a general overview of the Army's mission, organizational structure, and customs and traditions. Two hours per week.
- 1020 First Year Basic Military Science.** One credit. Further development in adventure-oriented skills. Hands-on approach to basic rifle marksmanship, land navigation, and first aid. Students fire the M16A2 rifle, conduct a land navigation course, and learn first aid skills through practical application. Continued focus on leadership development. Two hours per week.
- 2010 Second Year Basic Military Science.** Two credits. Prerequisites: M S 1010 and 1020 or permission of PMS. Development of leadership potential through practical exercise. Leadership, small unit tactics, first aid, basic rappelling, weapons familiarization, and oral communication exercises.
- 2020 Second Year Basic Military Science.** Two credits. Prerequisites: M S 1010, 1020, and 2010 or permission of PMS. Application of basic map reading and compass principles, unit organization at squad level, small unit tactics, branches of the Army, discussion of the Advanced Program. Practical exercises, land navigation, first aid, current events, marksmanship, and water safety training.
- 3000 Basic Military Science.** Six credits. Prerequisite: Permission of PMS. Four-week training normally taken during the summer between the sophomore and junior academic years by students who have not taken all basic M S courses. Training conducted at a designated U.S. Army installation; practical experience in leadership, small unit tactics, weapons, drill, and communications under field conditions. U.S. Army pays the student approximately \$640.
- 3080 U.S. Army History.** Two credits. Prerequisites: M S 1010 and 1020 or permission of department chair. Introduces students enrolled in the ROTC program to the U.S. Army's development and role in military operations from colonial times to the present.
- 3110 First Year Advanced Military Science.** Three credits. Prerequisites: M S 1010, 1020, 2010, and 2020; or M S 3000; or equivalent credit for previous military service. Formal instruction in customs and courtesies of the services, leadership traits and principles, small unit tactics, map-reading skills, and military briefings. Focus on leadership development, instilling the warrior ethos and preparation for the National Advanced Leadership Camp.
- 3120 First Year Advanced Military Science.** Three credits. Prerequisite: M S 3110. Formal instruction in squad and platoon tactics, leadership development, basic military skills, and branches of the Army. Focus on instilling the warrior ethos and preparing cadets for the National Advanced Leadership Camp.
- 3130 Military Science Field Methods.** Six credits. Prerequisites: M S 3110 and 3120. Four to six weeks of training normally taken during the summer between the junior and senior academic years. Training conducted at a designated U.S. military installation; practical experience in leadership, military teaching, weapons, and communications under field conditions. The U.S. military pays the student for attending the training.
- 4110 Second Year Advanced Military Science.** Three credits. Prerequisites: M S 3110 and 3120. Seminar in leadership and management designed to prepare the senior student for active duty responsibilities. The commander, the staff, the military team, and Army ethics are the main focus. Emphasis on instilling warrior ethos.
- 4120 Second Year Advanced Military Science.** Three credits. Prerequisites: M S 3110, 3120, and 4110. Seminars in leadership and management to prepare the senior student for active duty responsibilities. Focus is military law, Army writing standards, and organizational skills. Emphasis on instilling warrior ethos.

# School of Nursing

## Lynn Parsons, Interim Director Cason-Kennedy Nursing Building 201

Barber, Campbell, Cantrell, Covington, Crockett, Draude, Edmisson, Harris, Holder, Howell, Krau, Lavender, Marquart, O'Leary, Prevost, Roesler, Sauls, Spann, Smith, Ward, Wofford

The School of Nursing offers a four-year program leading to a Bachelor of Science in Nursing. The school also offers pre-nursing curriculum advisement for students planning to enter a nursing program elsewhere.

The purposes of this degree program are to

1. provide quality nursing education which prepares graduates for professional nursing practice as generalists;
2. prepare graduates who have an appropriate base for specialized study in nursing practice, education, administration, or research;
3. provide graduates with a professional practice base that is responsive to the changing health care needs of the citizens of Tennessee and the nation.

Graduates of the program receive preparation designed to enable them to

1. communicate through a variety of media to facilitate the exchange of ideas, knowledge, and information;
2. employ critical thinking abilities for personal and professional development and nursing practice refinement;
3. develop professional leadership skills necessary to design, coordinate, and manage within the health care system;
4. utilize the nursing process as a foundation for nursing practice;
5. exhibit personal and professional development responsive to changes in nursing, health care, and society.

## Bachelor of Science in Nursing

The Nursing Program consists of four academic years. Students enter the program as pre-nursing majors and must complete the first three semesters of a pre-nursing curriculum consisting of General Education courses and nursing prerequisites. Students then apply for admission to the last five semesters which include 71 semester hours of upper-division nursing courses. When a student applies for admission to the last five semesters and is accepted and becomes enrolled, he/she is then classified as a Nursing major. The number of students accepted into the nursing courses is limited, making the application process competitive.

Upon successful completion of the program, graduates are awarded the B.S.N. and become eligible to sit for the National Council Licensure Examination (NCLEX) for Registered Nurse (RN) licensure.

Pre-nursing students enrolled in the University and pursuing the first three semesters of the curriculum should maintain a minimum 2.75 cumulative grade point average and are required to earn no less than a C (2.00) in any prerequisite course. Nursing clinicals may be offered in evening, night, or weekend shifts.

### Sample Program of Study

The following program of study is recommended; however, students are expected to seek advising from the nursing faculty to ensure proper sequence for program completion. The faculty reserves the right to make changes in curricula requirements and/or course sequencing as appropriate.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

### Required Nursing Curriculum for the B.S.N.

#### FRESHMAN

FALL		SPRING	
ENGL 1010 (Comm)	3	ENGL 1020 (Comm)	3
BIOL 2010 (Nat Sci)	4	BIOL 2020	4
MATH 1530 (Math)	3	PSCI 1030 or CHEM 1010 or 1030 (Nat Sci)	4
COMM 2200 (Comm)	3	PSY 1410 (Soc/Beh Sci)	3
HIST 2010, 2020, or 2030	3	HIST 2010, 2020, or 2030	3
	<b>16</b>		<b>17</b>

#### SOPHOMORE

FALL		SPRING	
ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3	NURS 3000	1
BIOL 2230	4	NURS 3010	3
Humanities and/or Fine Arts	3	Humanities and/or Fine Arts	3
Social/Behavioral Sciences	3	NURS 3030	2
	<b>13</b>	NURS 3040	1
		NURS 3370	1
			<b>13</b>

#### JUNIOR

FALL		SPRING	
NURS 3170	3	NURS 3530	5
NURS 3350	5	NURS 3540	4
NURS 3360	4	NURS 3550	3
NURS 3570	3	NURS 3560	2
	<b>15</b>	NURS elective	3
			<b>17</b>

#### SENIOR

FALL		SPRING	
NURS 4330	5	NURS 4530	3
NURS 4340	4	NURS 4550	3
NURS 4350	3	NURS 4560	3
NURS 4360	2	NURS 4570	3
	<b>14</b>	NURS 4580	3
			<b>13</b>



## Special Provisions for Licensed Two-Year and Hospital Diploma Graduates

Students holding the R.N. license must meet freshman and sophomore requirements. Each registered nurse who has graduated from an NLN-accredited program with an associate degree in nursing or a hospital diploma in nursing will satisfy 38 credit hours of required courses including HLTH 1530. This credit, however, will be held in escrow until the student has matriculated and successfully completed NURS 3010, 3030, 3040, 3111, 3170, 3370, and 3570. Those holding degrees from non-NLN accredited or foreign nursing schools will have to complete proficiency exams in addition to the other junior-level nursing courses before credit is awarded for nursing courses.

**Students holding R.N. licensure must complete the following courses:**

### JUNIOR LEVEL

NURS 3010	3
NURS 3030	2
NURS 3040	1
NURS 3111	3
NURS 3170	3
NURS 3370	3
NURS 3570	3
	<b>18</b>

### SENIOR LEVEL

NURS 4530	3
NURS 4560	3
NURS 4570	3
NURS 4580	3
Elective	3
	<b>15</b>

*Challenge of 3000-level nursing courses is possible for associate degree and hospital diploma nursing graduates.*

## Admission and Progression in the Pre-nursing Curriculum

1. Any student formally admitted to the University may pursue the pre-nursing curriculum.
2. An information/application form, obtained from the School of Nursing, Cason-Kennedy Nursing Building 201, must be completed and on file in the School of Nursing.
3. Pre-nursing students are expected to seek advising from the nursing faculty each semester to ensure that they are following the proper sequence for completion of the prerequisite courses.

## Admission and Progression in the Upper-division Nursing Curriculum

1. An updated information/application form and a progression to the junior level form must be on file in the School of Nursing.
2. Transcript validation of all prerequisite courses must be on file in the MTSU Records Office.
3. A **cumulative undergraduate** college grade point average of 2.75 is required for beginning eligibility.

4. Applicants must have no grade less than a C (2.00) in any prerequisite and general education course **by the end of summer semester (for those entering in fall semester), or by the end of fall semester (for those entering in spring semester).**
5. A standardized exam will be administered to all students desiring to progress to the upper-division nursing courses. Scores from the examination along with the college grade point average will be used to rank candidates for progression to the upper division. The fee for the examination is payable the day of testing.
6. Students must attain a minimum grade of C (2.00) in all nursing courses.
7. Comprehensive assessment tools and/or standardized exams are administered throughout the curriculum. Expenses associated with these exams are the responsibility of the student, and evaluation methods are incorporated into the course grades.
8. Students will be asked to present evidence of physical and/or mental health prior to or at any time during their enrollment in the nursing courses. Students must be physically, emotionally, and cognitively able to meet the criteria required for clinical skills. Students must be able to perform clinical skills without physical or psychological threat to themselves or others. Students who have chronic health problems which are controlled and which do not put themselves or others in danger are eligible to be considered for admission.
9. Faculty reserves the right to determine each student's eligibility to participate in clinical rotations based upon satisfactory preparation, meeting School of Nursing and clinical agency's policies, and performance at a safe level of practice. If any of these are not satisfactory, faculty may give a student an unsatisfactory grade and ask a student to leave the clinical agency for the day.
10. Students with infectious diseases will not be permitted to participate in clinical experiences. Causes for clinical absences must be cleared with the instructor and reported to the clinical agency before the clinical experience is to begin. Unexcused absences will be counted as unsatisfactory clinical performance.
11. Students will be dismissed from the Nursing major if they
  - a. commit a breach of ethics or gross professional negligence, or
  - b. use mind-altering drugs or alcohol when engaged in any nursing activity in or outside of class, or
  - c. fail to progress due to unsuccessful attainment of requirements. Students who fail to progress may re-apply and will be considered for readmission on a competitive basis. **Only one readmission for failure to progress will be allowed.** Students admitted from other nursing programs in which a grade of D (less than 2.00) was made in nursing will not be re-admitted.
12. If a student fails a nursing course at MTSU, he/she **must** repeat that course at MTSU.
13. **Further specific details regarding admission and progression are available in the School of Nursing.**



## Accreditation

The Bachelor of Science in Nursing program holds full approval by the Tennessee Board of Nursing and is accredited by the National League for Nursing, Accrediting Commission, and Commission on Collegiate Nursing Education.

## Costs

Nursing students pay the same fees as do all other undergraduate students at the University. These fees are described in detail elsewhere in this catalog. Additional expenses incurred by nursing students include

1. the cost of white uniforms, name pin, shoes, hosiery, watch with second hand, and stethoscope (varies with individual choice)
2. nursing bag (approximately \$65)
3. liability insurance (\$15)
4. assessment tools and standardized exams (approximately \$55 per semester.)

## Pre-nursing Curriculum for Other Nursing Schools

Students planning to enter other schools of nursing must carefully select their courses according to the pre-nursing curriculum prescribed by the school to which they will apply. Nursing advisors will assist students with their course selections.

## Courses in Nursing [NURS]

- 3000 Professionalism in Nursing.** One credit. Exposes the novice nursing student to the profession of nursing. Concept of professionalism explored and related to nursing. Includes a brief historical review of nursing and nursing theories. Professional values, practice standards, and communications with health care professional introduced. Legal implications for nursing explored.
- 3010 Pathophysiology.** Three credits. (Same as BIOL 3340.) Prerequisites: BIOL 2010, 2020, and 2230. Basic mechanisms of disease processes and their role in disrupting normal physiology. Three hours lecture.
- 3030 Health Assessment.** Three credits. Prerequisites: BIOL 2010 and 2020. Corequisite: NURS 3040. Principles and techniques required for the assessment and analysis of data (diagnosis). Normal assessment findings and selected abnormal findings studied. Cultural variations and assessment variations across the lifespan explored.
- 3040 Health Assessment Laboratory.** One credit. Prerequisites: BIOL 2010 and 2020. Corequisite: NURS 3030. Opportunity to practice the basic principles and techniques required for the assessment and analysis of data (diagnosis). Normal assessment findings in the adult as well as selected abnormal findings studied. Cultural variations and assessment variations across the lifespan explored. Three clock hours per week.
- 3110 Concepts of Nurse Agency.** Two credits. Prerequisites: Admission to upper-level nursing and completion of majority of lower-division required courses. Philosophy and objectives of the program, Self-Care Deficit Theory, and other concepts and theories relevant to nurse agency. Two hours lecture.
- 3111 Professional Role Development.** Three credits. Socializes the returning R.N. into the role of a baccalaureate nurse. Professionalism in nursing, role transition, history of nursing education, and issues pertinent to returning adult learners.
- 3130 Health Assessment for Nurse Agency.** Two credits. Prerequisites: BIOL 2230, 3130, 3140, and 3340. Corequisite: NURS 3140. Physical and psychosocial assessment skills developed to provide a basis for reorganizing and meeting client self-care deficits. Two hours lecture.
- 3140 Health Assessment Clinical.** One credit. Prerequisites: BIOL 2230, 3130, 3140, and 3340. Corequisite: NURS 3130. Practice in physical and psychosocial assessment. Two hours laboratory.
- 3150 Self-Care Assistance.** Five credits. Prerequisites: Admission to the upper-division nursing program and completion of the lower-division required courses. Knowledge and skills necessary to apply Self-Care Deficit Theory. Five hours of lecture.
- 3160 Assistance Clinical.** Five credits. Prerequisite: Admission to upper-division nursing. Corequisite: NURS 3150. Self-Care Deficit Theory applied in clinical settings. Ten hours laboratory.
- 3170 Pharmacological Requisites for Nurse Agency.** Three credits. Prerequisites: General Education Natural Science; BIOL 2230, 2010, 2020; NURS 3010. Knowledge and responsibility necessary for the assessment and monitoring of clients receiving pharmaceuticals.
- 3230 Developmental Promotion in Childbearing.** Three credits. Prerequisites: NURS 3110, 3130, 3140, 3150, 3160, and 3170. Corequisite: 3240. Concepts of the family as a societal unit emphasizing the childbearing function. Stresses nurse agency assistance with developmental tasks and crisis intervention from preconception through the late postpartum period. Three hours lecture.
- 3240 Childbearing Clinical.** Three credits. Prerequisites: NURS 3110, 3130, 3140, 3150, 3160, and 3170. Corequisite: 3230. Care of clients from the prenatal through the postpartum period in clinical settings. Six hours laboratory.
- 3250 Mental Health Requisite Care.** Three credits. Prerequisites: NURS 3110, 3130, 3140, 3150, 3160, and 3170. Corequisite: NURS 3260. Nurse agency in the promotion of mental health and the care of clients with acute and chronic mental health deficits. Three hours lecture.
- 3260 Mental Health Clinical.** Three credits. Prerequisites: NURS 3110, 3130, 3140, 3150, 3160, and 3170. Corequisite: NURS 3250. Care of clients with acute and chronic mental health deficits in the clinical setting. Six hours laboratory.
- 3270 Educative/Supportive Health Care.** Four credits. Prerequisites: NURS 3110, 3130, 3140, 3150, 3160, and 3170. Corequisite: NURS 3280. Incorporates concepts from nursing and public health to emphasize the role of nurse agency in primary care settings with an orientation toward individuals, families, groups, and communities. Four hours lecture.
- 3280 Educative Clinical.** Three credits. Prerequisites: NURS 3110, 3130, 3140, 3150, 3160, and 3170. Corequisite: NURS 3270. Nurse agency support of individuals, families, groups, and communities in a variety of settings. Six hours laboratory.
- 3350 Introduction to Nursing Practice.** Five credits. Prerequisites: NURS 3010, 3030, 3040, and 3370. Prerequisite or corequisites:

NURS 3170 and 3570. Introduces nursing care concepts necessary to support basic care of clients across the lifespan; foundation for subsequent nursing courses.

- 3360 Introduction to Nursing Practice—Clinical.** Four credits. Prerequisites: NURS 3010, 3030, 3040, and 3370. Corequisite: NURS 3350. Nursing practice applied in laboratory and clinical settings. Twelve clock hours per week.
- 3370 Health and Gerontology.** Three credits. Focuses on the normal aging process and related health care issues from an interdisciplinary perspective. Incorporates concepts of health promotion, prevention, and adaptation for those who are aging and their families.
- 3530 Caring for Adult Clients I.** Five credits. Prerequisites: NURS 3350 and 3360. Corequisite: NURS 3540. Professional nursing care in a variety of settings for the adult client with simple and chronic health problems.
- 3540 Caring for Adult Clients I—Clinical.** Four credits. Prerequisite or corequisite: NURS 3530. Applying the nursing process in a clinical setting with the adult client experiencing acute and chronic health deviations. Twelve clock hours per week.
- 3550 Caring for the Childbearing Family.** Three credits. Prerequisites: NURS 3350 and 3360. Corequisite: NURS 3560. Incorporates the nursing process and critical thinking skills into the professional nursing care of the childbearing female and the family. Focuses on health promotion, prevention, and adaptation for the childbearing client.
- 3560 Caring for the Childbearing Family—Clinical.** Two credits. Prerequisites: NURS 3350 and 3360. Corequisite: NURS 3550. Nursing process for applying the clinical application and principles of nursing and family theory to childbearing families. Focuses on health promotion, prevention, and adaptation for childbearing families.
- 3570 Health Care Research.** Three credits. Prerequisites: NURS 3350 and 3360; MATH 1530; or permission of the director of the School of Nursing. Utilizes systematic inquiry and analysis by reinforcing the problem-solving method. Utilization of research in the improvement of health care practice to affect positive client outcomes examined. Attention given to a thorough search and critique of current research literature related to a problem area selected by the student.
- 4005 Independent Health Care Study.** One to three credits. Prerequisites: Admission to the upper division of the nursing program and permission of instructor. Allows the student to pursue individual interests in nursing by contracting with an instructor and documenting the plan of learning as well as its fulfillment. One to three lectures or two to six laboratory hours.
- 4035 Special Topics in Nursing.** Three credits. Explores selected nursing topics in depth. Specified topic offered each semester according to student interest and faculty availability.
- 4055 Informatics for the Health Care Professional.** Three credits. Theoretical foundations of informatics for health care professionals. Examines information technology and tools on the Internet. Emphasis on impact of automated data management through information systems in health care.
- 4130 Health Deviation Requisite Care.** Six credits. Prerequisites: NURS 3230, 3240, 3250, 3260, 3270, and 3280. Corequisite: NURS 4140. The nursing process in the care of the adult client with physical self-care deficits in acute and long-term care settings. Six hours lecture.
- 4140 Health Deviation Clinical.** Three credits. Prerequisites: NURS 3130, 3240, 3250, 3260, 3270, and 3280. The nursing process applied in the clinical setting to clients with physical self-care deficits. Six hours laboratory.
- 4150 Developmental Assistance in Childrearing.** Three credits. Prerequisites: NURS 3130, 3240, 3250, 3270, and 3280. Corequisite: NURS 4160. Unique body of knowledge and skills essential to the delivery of safe, comprehensive care to children, adolescents, and their families when deleterious factors threaten to interrupt development. Three hours lecture.
- 4160 Childrearing Clinical.** Three credits. Prerequisites: NURS 3130, 3240, 3250, 3270, and 3280. Corequisite: NURS 4150. Care of children, adolescents, and their families in various settings. Six hours laboratory.
- 4210 Health Care Research.** Three credits. Prerequisites: MATH 1530 and CSCI 1000 or permission of instructor. The research process in developing a research proposal for a student-identified problem in the health care delivery system. Discussion and critique of related research findings and research proposals of peers. Three hours lecture.
- 4230 Compensatory Health Care.** Four credits. Prerequisites: NURS 4130, 4140, 4150, and 4160. Knowledge base for working with critically and terminally ill clients requiring wholly compensatory care. Legal and ethical considerations arising in critical care settings are explored and professional responsibilities are refined. Four hours lecture.
- 4240 Compensatory Clinical.** Three credits. Prerequisites: NURS 4130, 4140, 4150, and 4160. Corequisite: NURS 4230. Clinical course taken concurrently with NURS 4230. Provides clinical experience in critical care areas and with clients requiring wholly compensatory care. Requires nine (eight hour) days in hospital plus simulated labs.
- 4250 Leadership in Nursing Systems.** Four credits. Prerequisites: NURS 4130, 4140, 4150, and 4160. Concepts of leadership applied to the practice of nurse agency. Technical, administrative, and human relations skills are identified for the purpose of adjusting the goals of a group. Four hours lecture.
- 4260 Management of Nursing Systems.** Three credits. Prerequisites: NURS 4130, 4140, 4150, and 4160. Corequisite: NURS 4035. Clinical course taken concurrently or after NURS 4035. Provides independence in management of nursing systems in various health care institutions. Requires eleven (eight-hour) days in hospital plus simulated labs.
- 4330 Caring for Adult Clients II.** Five credits. Prerequisites: NURS 3530 and 3540. Corequisite: NURS 4340. Incorporates the nursing process and critical thinking skills into the professional nursing care of the adult client experiencing complex, multi-system illness, failure, and trauma. Opportunities for the nursing student to combine acquired knowledge from previous nursing courses and courses from other disciplines with new phenomena encountered in a variety of high acuity care settings.
- 4340 Caring for Adult Clients II—Clinical.** Four credits. Prerequisites: NURS 3530 and 3540. Corequisite: NURS 4330. Opportunity for nursing students to integrate didactic and empirical knowl-

edge and skills for clients with critical needs into the acute care setting. Understanding of complex, multi-system illness, failure, and trauma in providing nursing care. Twelve clock hours per week.

**4350 Caring for Children and Teen Clients.** Three credits. Prerequisites: NURS 3530 and 3540. Corequisite: NURS 4360. Incorporates the nursing process and critical thinking skills into the professional nursing care of children, adolescents, and their families. Principles of growth and development and family-centered care.

**4360 Caring for Children and Teen Clients—Clinical.** Two credits. Prerequisites: NURS 3530 and 3540. Corequisite: NURS 4350. Provides assistance in transferring knowledge to the implementation of nursing care of children, adolescents, teens, and their families in a variety of clinical settings. Six clock hours per week.

**4530 Caring for the Community as Client.** Three credits. Opportunity for students to learn theoretical concepts and epidemiological principles related to health promotion and preventive services. Primary, secondary, and tertiary levels of prevention covered. Focuses on the work of an interdisciplinary health care team and concepts of nursing and public health when working with the individual, family, group, and community as client.

**4550 Caring for Clients with Mental Health Alterations.** Three credits. Prerequisites: NURS 3530 and 3540. Corequisites: NURS 4560. Opportunity for students to learn theoretical concepts relating to mental health and psychiatric nursing. Interpersonal and group communication, psychopathology, and legal and ethical issues explored. Methods used in providing nursing care for clients with alterations in mental health presented. Interdisciplinary health care team and its function in the psychiatric setting explored.

**4560 Nursing Care of Vulnerable Aggregates Clinical.** Three credits. Prerequisites or corequisites: NURS 4530 and 4550. Familiarizes the undergraduate nursing student with ways to care for aggregates. Emphasis on clients in the community and in inpatient psychiatric facilities. Nine clock hours per week.

**4570 Professional Practice and Leadership.** Three credits. Prerequisites: NURS 3530 and 3540. Corequisite: NURS 4580. Opportunity for students to learn theoretical concepts relating to leadership in nursing. Theories of leadership and management including legal and ethical issues explored.

**4580 Professional Practice and Leadership Clinical.** Three credits. Prerequisite or corequisite: NURS 4570. Clinical application of professional practice and leadership principles. Provides independence in the management of nursing systems in various health care institutions. Six clock hours per week.

## Graduate Study

The School of Nursing offers graduate certificates in Critical Care Nursing and Nursing Informatics. Requirements for these and a list of the courses offered for graduate credit are published in the Graduate Catalog.

# Department of Physics and Astronomy

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**Robert F. Carlton, Chair**  
**Wiser-Patten Science Building 219**

**Cook, Eradat, Erenso, Henderson, Higgins, Klumpe, Lee,  
Montemayor, Robertson, Weller**

The Department of Physics and Astronomy offers students the opportunity to study the fundamental principles and methodologies of theoretical, experimental, and computational physics. The physics core curriculum forms the framework for the Physics major. Each student then completes the rest of the program of study with a variety of electives according to his or her interests and career objectives. The core curriculum, coupled with upper-level electives, provides strong preparation for advanced study in physics or astronomy or a career in industrial physics or engineering or simply lays the foundation for a rigorous undergraduate education, regardless of one's desired field of employment after the baccalaureate degree.

The departmental program of study leads to a Bachelor of Science degree in Physics. Minors in Physics and Electro-Acoustics are also available.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

## Major in Physics

The major in Physics consists of 27 semester hours of required core courses, plus 9 hours of upper-division electives in physics and astronomy. The core curriculum consists of PHYS 2110, 2111, 2120, 2121 (or 2010, 2011, 2020, 2021), 3100, 3110, 3150, 3610, 3800, 3900, 3910, 4850, and 4900. Also required are CHEM 1110, 1120 and MATH 1910, 1920. The following program is suggested for the first two years. For the third and fourth years, each student should work closely with his/her advisor to tailor a program which will meet individual requirements. A minimum of 12 semester hours in the Physics major must be taken at MTSU.



**Recommended Sequence**

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ENGL 1010, 1020 (Comm)	6	COMM 2200 (Comm)	3
PHYS 2110/2111 (Nat Sci)	4	HIST 2010, 2020, or 2030	3
and 2120/2121 OR	4	PHYS 3100, 3110	6
PHYS 2010/2011 (Nat Sci)	(4)	PHYS 3150, 3160	6
and 2020/2021	(4)	CSCI 1170	4
MATH 1910 (Math)	4	Electives	9
MATH 1920	4		<b>31</b>
CHEM 1110 (Nat Sci)	4		
CHEM 1120	4		
	<b>30</b>		

*Credit may be received for PHYS 2110-2121 or 2010-2021, but not for both series.*

*Courses satisfying the remaining areas of General Education are to be taken during the junior and senior years.*

**Teacher Licensure in Physics**

Students seeking a license to teach physics in secondary schools (grades 7-12) must complete (1) a major in Physics, (2) a minor in Secondary Education, and (3) additional teacher licensure requirements. Students can also become licensed to teach physics under the Science major (see page 119).

**Additional Teacher Licensure Requirements**

In addition to the General Education requirements (see pages 60–63) the following courses are required for teacher licensure in physics:

MATH through 1920  
 BIOL 1110, 1120 General Biology  
 CHEM 1110, 1120 General Chemistry I and II  
 ASTR 1030 Exploring the Universe  
 PHYS 2010-2021 Non-Calculus-Based Physics/Laboratory OR  
 PHYS 2110-2121 Calculus-Based Physics/Laboratory  
 GEOL 1040 Physical Geology

**Secondary Education Minor Requirements**

Students must contact their Secondary Education minor advisors for approval of appropriate courses.

**NOTE:** *The Secondary Education minor has been revised. Please see page 193 and contact the Educational Leadership Department for information.*

**Major Requirements**

Students who want to teach secondary physics must complete the Physics major in the following manner:

PHYS 2010, 2011, 2020, 2021 Non-Calculus-Based Physics I OR  
 PHYS 2110, 2111, 2120, 2121 Calculus-Based Physics I  
 PHYS 3100, 3110 Modern Physics I and II  
 PHYS 3150 Topics and Methods of Theoretical Physics I  
 PHYS 3310, 3350 Concepts and Applications of Digital Electronics  
 PHYS 3610 Thermodynamics  
 PHYS 3800 Physics Seminar  
 PHYS 3900 Physics Practicum  
 PHYS 3910 Advanced Physics Laboratory

**Minor in Electro-Acoustics**

The minor in Electro-Acoustics consists of at least 21 semester hours, 18 of which are required: MATH 1910; PHYS 1600, 3310, and 3350; and ET 3610. Remaining elective may be chosen from PHYS 3000, ET 3620, or ET 3660.

**Minor in Physics**

The minor in Physics consists of 19 semester hours in physics and astronomy including PHYS 2110, 2111, 2120, 2121 (2010, 2011, 2020, 2021). Students minoring in Physics should work closely with their Physics advisor to tailor a program which meets their needs. At least four upper-division hours must be taken at MTSU.

**Courses in Astronomy [ASTR]**

**1030 Exploring the Universe.** Three credits. A general introduction to astronomy through an overview of planets, stars, systems of stars, and the overall structure of the universe. Topics will be discussed by answering questions such as “How do you weigh stars?” and “Will the universe die?”

**1031 Observing the Universe.** One credit. Prerequisite or corequisite: ASTR 1030. Introduction to observational astronomy through laboratory exercises and outdoor observing activities. Topics include telescopes, the analysis of starlight, and observations of stars and planets.

**2030 Solar System Astronomy.** Three credits. Prerequisite: MATH 1710. Comprehensive study of the solar system including models of solar and planetary formation. Analysis of the chemical makeup and physical nature of the Sun, planets, moons, and comets using mathematics and the scientific method. Focus on planetary interiors, surfaces, atmospheres, solar-planetary interactions, and solar system evolution. Discussion of spacecraft missions, future solar system exploration, and possibilities of extra-terrestrial life.

**2040 Stars, Galaxies, and Cosmology.** Three credits. Prerequisite: MATH 1710. A comprehensive study of stellar, galactic, and cosmological astronomy. Analyzes the basic theories of stellar and galactic formation and evolution using mathematics and the scientific method. Includes the cataclysmic topics of supernovae, neutron stars, pulsars, and black holes as well as the nature of galaxies including the Milky Way galaxy, active galaxies and quasars, and the formation and evolution of our universe, the big bang theory, and the possibility of other life in the universe.

**3050 Directed Study in Astronomy.** One to four credits. Prerequisite: PHYS 2021 or 2120 and approval of department chair. Individualized intensive study of a specific topic in astronomy or astrophysics not normally covered to the extent desired in the standard curriculum. Arrangements must be made with an approved faculty member prior to registration.

**3400 Fundamentals of Astrophysics.** Three credits. Prerequisite: PHYS 2021 or 2120 and MATH 1910. Modern astronomical knowledge and techniques using classical and modern physical principles. Possible topics include star formation, black holes and neutron stars, galaxy structure and evolution, formation of planetary systems, and large-scale structure of the universe.

**3401 Experimental Astronomy.** One credit. Prerequisite: Consent of instructor. Principles and techniques of astronomical data acquisition and reduction. Possible research topics involve pho-

tometry, spectroscopy, astronomical applications of electronic detectors, and computer modeling.

**4800 Special Topics in Astronomy.** Three credits. Prerequisites: PHYS 3150 and approval of department chair. In-depth, organized study of a contemporary topic of interest not normally covered in the undergraduate physics and astronomy curriculum. Possible topics include planetary geology, radio astronomy, stellar atmospheres or interiors, space physics, pulsating stars, dark matter and energy, galactic evolution, and general relativity and cosmology.

**4850 Astronomy Research.** Two credits. Prerequisite: Consent of instructor. Independent study of a selected research problem in astronomy. Includes experimental and/or theoretical investigation of an important yet unexplored problem or experimental design. Includes literature research and experimental design/problem formulation and execution resulting in oral and written presentation of results suitable for submission/presentation to a suitable journal/conference.

**4900 Astronomy Senior Thesis.** Two credits. Prerequisites: ASTR 4850 and consent of department chair. Focuses on a specific research/experimental design problem chosen with the consent of the thesis committee and with the potential for original discovery or for creative development of a tool, technique, or instrumentation applicable to scientific research. Independent pursuit of research objectives outlined in a research proposal results in a written thesis, the approval of which will include an oral defense.

## Courses in Physics [PHYS]

**1300 Discovering Physics.** Three credits. Prerequisite: MATH 1710 or 1730. Students with weak science or math backgrounds introduced to a variety of topics and their applications. Emphasis on building skills for graphical interpretation of real data within a discovery-learning environment. Presents concepts and techniques of physics for students planning to take PHYS 2010; serves as a good introduction for those interested in learning more about how the world works.

**1600 Physics of Music.** Three credits. Prerequisite: MATH 1710 or consent of instructor. The physics of music, acoustics, and sound for students without prior physics background.

**2010 Non-Calculus-Based Physics I.** Zero credit. Prerequisite: MATH 1710 or 1730. Required corequisite: PHYS 2011. Web-based discussion class to be taken in conjunction with cooperative-learning based problems lab PHYS 2011. Classical mechanics traditionally covered in a first-semester college physics course. Kinematics, forces, momentum, angular motion, calorimetry, and sound waves. Class time used for discussion of the Web-lecture material and for the administration of exams.

**2011 Physics Problems Laboratory I.** Four credits. Prerequisite: MATH 1710 or 1730. Required corequisite: PHYS 2010. Group-oriented problems course taken in conjunction with the Web-based discussion class PHYS 2010. Students work in groups with the topics presented in the PHYS 2010 discussion class. Covers kinematics, forces, momentum, angular motion, calorimetry, and sound waves. Skills associated with the development of experimental investigations including graphical analysis and estimation of uncertainties emphasized. Two two-and-one-half-hour laboratory sessions.

**2020 Non-Calculus-Based Physics II.** Zero credit. Prerequisites: PHYS 2011. Required corequisite: PHYS 2021. Web-based discussion class taken in conjunction with the cooperative-learning based

problems lab PHYS 2021. Fundamentals of optics, modern physics, and electronics traditionally covered in a second-semester college physics course. Reflection and refraction, vision, diffraction effects, quantum mechanics, atomic and nuclear physics, and analog and digital electronics. Scheduled class time is used for discussions of the Web-lecture material and for the administration of exams.

**2021 Physics Problems Laboratory II.** Four credits. Prerequisites: PHYS 2011. Required corequisite: PHYS 2020. Group-oriented problems course to be taken in conjunction with the Web-based discussion class PHYS 2020. Students work in groups with the topics presented and in the PHYS 2020 discussion class. Optics, modern physics, and electronics traditionally covered in a second-semester college physics course. Reflection and refraction, vision, diffraction effects, quantum mechanics, atomic and nuclear physics, and analog and digital electronics. The skills associated with the development of experimental investigations including graphical analysis and estimation of uncertainties emphasized. Two two-and-one-half-hour laboratory sessions.

**2110 Calculus-Based Physics I.** Three credits. Prerequisite: MATH 1910. Corequisite: PHYS 2111. A calculus-based introduction to mechanics and wave motion.

**2111 University Physics Laboratory I.** One credit. Prerequisite: MATH 1910. Corequisite: PHYS 2110. Laboratory course to accompany PHYS 2110. Experiments in mechanics, waves, and thermodynamics. Data reduction, error analysis, and report writing. One three-hour laboratory.

**2120 Calculus-Based Physics II.** Three credits. Prerequisites: PHYS 2110; MATH 1920. Corequisite: PHYS 2121. A continuation of PHYS 2110. Electricity, magnetism, circuit analysis, and optics.

**2121 University Physics Laboratory II.** One credit. Prerequisites: PHYS 2110 and 2111. Corequisite: PHYS 2120. Laboratory course to accompany PHYS 2120. A continuation of PHYS 2111. Experiments in electricity, magnetism, optics, and modern physics. Data reduction, error analysis, and report writing. One three-hour laboratory.

**3000 Acoustics and Signal Analysis.** Three credits. Prerequisites: PHYS 1600 and MATH 1910. Detailed overview of acoustics including an introduction to digital signals and their analysis. Application areas include architectural, musical, and environmental acoustics. Intended for students interested in the technical side of the music industry.

**3050 Directed Study in Physics.** One to four credits. Prerequisites: PHYS 2021 or 2120 and approval of department chair. Individualized intensive study of a specific topic in physics not normally covered to the extent desired in the standard curriculum. Arrangements must be made with an approved faculty member prior to registration.

**3100 Modern Physics I.** Three credits. Prerequisites: PHYS 2021 or 2120 and MATH 1920. Introduction to the fundamental principles of modern physics (special relativity and quantum mechanics) and their application to atomic physics.

**3110 Modern Physics II.** Three credits. Prerequisite: PHYS 3100. Survey of major topics including molecular physics, statistical physics, solid state physics and solid state devices, nuclear models, nuclear decay and reaction, and elementary particle physics.

**3150 Topics and Methods of Theoretical Physics I.** Three credits. Prerequisites: PHYS 2021 or 2120 and MATH 1920. Theoretical techniques used for problem solving in physics. Reference

frames and coordinate systems, approximation techniques, solution of electrical circuits and mechanical systems, simple harmonic motion and wave motion, Maxwell's equations.

- 3160 Topics and Methods of Theoretical Physics II.** Three credits. Prerequisite: PHYS 3150. A continuation of PHYS 3150. The Schroedinger equation, heat flow, diffusion, the Lagrangian description of motion.
- 3200 Scientific Modeling and Problem Solving.** One credit. Prerequisites: One year of physics and MATH 1920 or consent of instructor. Techniques of computational physics as applied to the solution of scientific problems.
- 3300 Classical Mechanics.** Three credits. Prerequisite: PHYS 3150 (or PHYS 2110 and MATH 3120). Mechanics (including statics and dynamics) of particles in three dimensions using vector analysis, motion of rigid bodies, Lagrangian mechanics, and Hamilton's equations.
- 3310 Concepts and Applications of Digital Electronics.** Three credits. Prerequisite: PHYS 2021 or 2121 or ET 3610. Investigates applications of modern digital technology. Fundamentals of logic gates and programmable devices examined along with contemporary integrated circuits for use in data acquisition and the control of scientific experiments. Sound cards, alarm systems, and laboratory measurement circuits typify projects constructed in the hands-on laboratory. Two hours lecture and one three-hour laboratory.
- 3330 Health Physics and Radiation Protection.** Three credits. Prerequisites: PHYS 2021 or 2120. Radiation protection methods, dosimetry techniques, and survey instruments. Practical knowledge of the methodology for paramedical personnel, industrial workers, and others who deal with radioisotopes and X-ray equipment. Two hours lecture and one three-hour laboratory.
- 3340 Semiconductor Device Physics.** Three credits. Prerequisites: One year physics and MATH 1910. Operation principles of diodes, transistors, and photonic devices. Fundamental band structure investigated to learn how important performance characteristics are related to physical principles. Modern designs include JFET, Bipolar, MOSFET, MODFET, and HEMT transistors.
- 3350 Concepts and Applications of Analog Electronics.** Four credits. Prerequisite: PHYS 2021 or 2121 or ET 3610. Introduction to contemporary analog electronics utilizing integrated circuits to treat traditional circuits, power supplies, operational amplifiers, comparators, and multivibrators. Conversion of analog to digital signal for interfacing to microcomputers. Emphasis on practical applications. Three hours lecture and one three-hour laboratory.
- 3500 Lasers and Fiber Optics.** Three credits. Prerequisites: One year physics and MATH 1910. Operation of fiber optic communication systems; how semiconductor lasers, modulators, and photodetectors work and how they are used in modern communication systems. Hands-on demonstrations and class projects will use lasers and optical components to illustrate basic principles.
- 3600 Radiation Oncology Physics.** Three credits. Prerequisites: MATH 1910 and a one-year introductory sequence in physics. Introduction to the field of radiation oncology physics, including a discussion of the fundamental physics and techniques associated with the diagnosis and treatment of cancer using electromagnetic radiation and particle beams. Includes experiences in a radiation oncology clinic and interactions with practicing medical physicists.
- 3610 Thermodynamics.** Three credits. Prerequisite: PHYS 3110 and 3150 or consent of instructor. Introduction to statistical physics, kinetic theory, and thermodynamics from a unified microscopic point of view. Selected applications to various systems of interest presented.
- 3800 Physics Seminar.** One credit. Prerequisite: PHYS 3100. Develops and refines inquiry, communication, and presentation skills through exposure to new developments in physics, technical brief writing, and resume and job interview preparations.
- 3900 Physics Practicum.** One credit. Prerequisites: PHYS 3100 and consent of instructor. Refines thinking, communication, and interpersonal skills through exposure to on-the-spot technical questions and a laboratory teaching experience as an assistant in an introductory physics laboratory.
- 3910, 3920 Advanced Physics Laboratory.** One credit each. Prerequisites: PHYS 2021 or 2120 and 2121. The skills, art, and physics important in pursuing independent research. Experiments dealing with mechanical, optical, or thermodynamical principles explored. Report writing, literature research, and the use of analysis tools emphasized.
- 4310 Electricity and Magnetism.** Three credits. Prerequisite: PHYS 3160. Topics including electric and magnetic fields, electrostatic potential, and potential energy and fields in matter, discussed in a mathematically rigorous manner. A variety of good applications of mathematical methods in physics.
- 4330 Modern Optics.** Three credits. Prerequisite: PHYS 4310. Topics include theory of electromagnetic radiation, production and propagation of electromagnetic waves, and the solution of boundary-value problems with applications to optics, wave guides, and lasers.
- 4380 Introduction to Quantum Mechanics.** Three credits. Prerequisites: PHYS 3110 and 3160. Topics include both one- and three-dimensional solutions to the Schroedinger equation, including the infinite square-well, finite square-well, tunneling, the harmonic oscillator, and the hydrogen atom with a discussion of angular momentum at a mathematically rigorous undergraduate level.
- 4600 Topics in Medical Physics.** Three credits. Prerequisites: PHYS 3110 and 3160. Topics in medical physics at an advanced undergraduate level integrated with topics from applied physics and mathematics. Possible topics include mechanics of the human body, thermodynamics and systems of many particles, diffusion and transport through neutral membranes, impulses in nerve and muscle cells, the exterior potential and the electrocardiogram, biomagnetism, electricity and magnetism at the cellular level, Fourier transforms and convolution in imaging, interactions of photons and charged particles with matter, the medical use of X-rays, nuclear medicine, and magnetic resonance imaging.
- 4630 Principles of the Solid State.** Three credits. Prerequisites: PHYS 3110 and 3150. Includes crystal structures, lattice dynamics, statistics of conductors and semiconductors, thermal properties, the metallic state, free electron theory, band theory of solids, dielectric and magnetic properties of solids, and the low temperature behavior of matter, particularly solids. Three hours lecture.
- 4800- Special Topics in Physics.** Three credits each. Prerequisites: An extensive physics background and permission of instructor.
- 4810** Detailed study of a selected topic of current interest in physics not



normally covered in the regular undergraduate physics curriculum. Possible topics include advanced atomic physics, high-energy physics (nuclear and elementary particles), scattering theory, astrophysics, and general relativity.

**4800 Special Topics A**

**4810 Special Topics B**

**4850- Physics Research.** Two credits each. Prerequisite: Consent of instructor. Independent study of a selected research problem in physics. Includes experimental and/or theoretical investigation of an important, yet unexplored, problem. Includes literature research, experiment design/problem formulation and execution, resulting in oral and written presentation of results suitable for submission for publication in a suitable journal.

**4900 Physics Senior Thesis.** Two credits. Prerequisites: PHYS 4850 and consent of department chair. Brings undergraduate experi-

ence to focus on a specific research problem; chosen with the consent of the thesis committee and with the potential for original discovery or for creative development of a tool or technique applicable to scientific research. Independent pursuit of research objectives outlined in a research proposal results in a written thesis whose approval will include an oral defense.

**4950 Modern Physics Laboratory.** One credit. Prerequisite: PHYS 3110. Concepts and ideas which formed the basis for an understanding of the atom and atomic phenomena. One three-hour laboratory.

### Honors College

The Department of Physics and Astronomy offers the following courses in Honors: ASTR 1030 and 1031. See current class schedule and Honors information in this catalog.





# JENNINGS A. JONES COLLEGE OF BUSINESS

E. James Burton, Dean,  
Business and Aerospace Building N219

Dwight Bullard, Associate Dean,  
Business and Aerospace Building N219

Nancy Bragg, Assistant to the Dean,  
Business and Aerospace Building N219

Gretchen Leming, Program Coordinator and  
Academic Advisor, Business and Aerospace Building N219

Academic Advisor  
Business and Aerospace Building N219

Amanda Chambers, Academic Advisor,  
Business and Aerospace Building N219

**Accounting • Business Education, Marketing Education, and  
Office Management • Computer Information Systems •  
Economics and Finance • Management and Marketing**

The Jennings A. Jones College of Business seeks to provide the intellectual foundation for our students' lifelong learning and success. Drawing students extensively from the regional population with an increasing emphasis on national and international diversity, the Jones College uses traditional and technology-based pedagogies to create a positive teaching/learning environment.

In addition to a sustaining emphasis on quality teaching and learning through classroom research, student professional organizations, and advisory activity, the faculty of the Jones College also contributes to business, professional, and civic affairs through public service and intellectual pursuits.

Specific departmental objectives, requirements for majors and minors, and descriptions of courses follow each departmental listing.



## Guiding Principles

To achieve our mission, the faculty of the Jennings A. Jones College of Business commits to these guiding principles:

### Quality

Students experience quality learning opportunities that are enhanced by faculty committed to effective teaching and expanding knowledge in their disciplines through research. The college provides quality facilities and access to technology used in the business world. Course offerings and course content are regularly reviewed to maintain currency. Student and faculty interaction with the business community further contributes to educational quality.

### Accessibility

We are the college of opportunity in middle Tennessee, offering a wide variety of courses, programs, and degrees in support of our constituencies. We offer traditional campus courses as well as evening, off-campus, and distance learning courses. Faculty members are accessible on campus and through electronic mail, faculty Web sites, and the University computer network. Students have access to both full-time college advisors and faculty advisors.

### Value

The college is a gateway to knowledge, providing a foundation for lifelong learning and the success of our students. Awarding degrees is an important recognition of student accomplishment in the learning process. Value is added by a faculty that demonstrates quality teaching, scholarly research, and service to the profession, the community, the region, and beyond. This linkage of scholarship, teaching, and learning is our bond with students, the public, and the business community. Value to our constituencies is strengthened through a philosophy of responsiveness and accountability.

### Learning Goals

The Jones College builds upon the University's general education foundation to prepare students to

1. be lifelong learners
2. influence free enterprise concepts and principles
3. think logically, critically, and creatively
4. communicate clearly and precisely
5. behave ethically and make sound moral judgments
6. acquire fundamental knowledge of their selected disciplines or areas of focus

### Jones College Goals

Accordingly, the Jones College will

1. commit to quality, accessibility, and value as guiding principles
2. prepare students for technology literacy in the commercial world
3. recruit high-ability students and faculty members
4. encourage faculty and students to maintain lifelong commitments to learning and creativity
5. develop appropriate partnerships with business, industry, and government

The Jones College acknowledges the value of ethnic, cultural, geographic, and racial diversity and seeks to promote such diversity within the faculty and student populations. The college embraces change and adheres to continuous improvement principles in every aspect of its operation, including student admission standards.

With respect to accessibility as a guiding principle, the Jones College desires to attract a balanced, diverse, student population with ever-improving entrance level potential and exit level abilities.

### Jones College Structure

One of the six undergraduate colleges of the University, the Jones College has a traditional, discipline-based structure of five academic departments. Decisions for the college are made by the chief academic/administrative officer, in appropriate consultation with an executive committee consisting of department chairs and associate deans. A broader steering committee, which adds the faculty chairs of all standing committees, is consulted when appropriate. Much of the work of the college is conducted through its standing committee structure.

Committed to continuous improvement, the Jones College believes that structure should facilitate the accomplishment of goals. If structure hinders programs of continuous improvement, it should be reviewed and modified to enhance goal attainment.

### Departments and Programs

The Jennings A. Jones College of Business has five academic departments:

- Accounting
- Business Education, Marketing Education, and Office Management
- Computer Information Systems
- Economics and Finance
- Management and Marketing

Specific departmental objectives, requirements for majors and minors, and descriptions of courses follow each departmental listing.

The Jennings and Rebecca Jones Business and Economic Research Center is an integral part of the Jennings A. Jones College of Business. The center coordinates research studies for the college; publishes the journal *Tennessee's Business* and newsletters *Mid-State Economic Indicators* and *Global Commerce*, monographs, and conference papers; acts as a repository of business and economic data; and assists faculty, students, and the broader community with research needs.

The college also supports or houses the following centers, projects, and endowments:

- Stock Market Game
- INROADS
- Tennessee Small Business Development Center
- Tommy T. Martin Chair of Insurance
- Jack O. Weatherford Chair of Finance
- Japan Program of MTSU

- Economic Education Center
- Jennings A. Jones Chair of Excellence in Free Enterprise
- Jennings and Rebecca Jones Chair of Excellence in Urban and Regional Planning
- Leadership Middle Tennessee

The Jones College's business and accounting programs are accredited by AACSB, International, The Association to Advance Collegiate Schools of Business.

## Degree Requirements

The Jennings A. Jones College of Business offers undergraduate programs leading to the Bachelor of Business Administration (B.B.A.) and the Bachelor of Science (B.S.) degrees. Each program includes courses for a specific minor. Specified minors cannot be omitted, but additional minors outside the Jennings A. Jones College of Business may be elected. The same courses may not be used to meet degree requirements in more than one major or minor. B.B.A. degrees are accredited by the AACSB International—The Association to Advance Collegiate Schools of Business. Degree programs are offered in

- Accounting (B.B.A.)
- Business Administration (B.B.A.)
- Business Education (B.S.)
- Economics (B.B.A.)  
Concentrations in Public Finance and Labor Relations
- Economics (B.S.)
- Entrepreneurship (B.B.A.)
- Finance (B.B.A.)  
Concentrations in Business Finance, Financial Institution Management, Insurance, and Real Estate
- Information Systems (B.B.A.)
- Management (B.B.A.)
- Marketing (B.B.A.)
- Office Management (B.B.A.)

We do not offer an online business degree.

### Bachelor of Business Administration (B.B.A.) Degree

Each candidate for a Bachelor of Business Administration (B.B.A.) degree must meet the following:

1. the University Degree Requirements (see page 56);
2. the General Education requirements (see pages 60–63);
3. the following business courses:
  - ACTG 2110, 2120, Principles of Accounting I and II, 6 hours
  - ECON 2410, 2420, Principles of Economics, Macroeconomics and Microeconomics, 6 hours
  - Q M 2610, Statistical Methods I, 3 hours
  - BLAW 3400, Legal Environment of Business, 3 hours
  - BMOM 3510, Business Communication, 3 hours
  - BMOM 4510, Business Report Writing, or
  - ECON 3210, The Financial System and the Economy, 3 hours
  - FIN 3010, Business Finance, 3 hours
  - INFS 3100, Principles of Management Information Systems, 3 hours
  - MGMT 3610, Principles of Management, 3 hours
  - MGMT 3620, Production and Operations Systems, 3 hours
  - MKT 3820, Principles of Marketing, 3 hours
  - Q M 3620, Statistical Methods II, 3 hours
  - B AD 4980, Business Policy, 3 hours
4. a major consisting of a minimum of 24 semester hours of courses as specified by each department in the college;

5. a minimum of 50 percent of required business hours must be taken at MTSU;
6. a minimum of 50 percent upper-division hours in the major and 3 upper-division hours in the minor must be taken at MTSU;
7. a minimum of 57 of the total 120 semester hours of coursework must be taken outside the Jennings A. Jones College of Business (ECON 2410, 2420, 3210; Q M 2610, 3620 are counted as non-business courses);
8. Business Policy, B AD 4980, must be taken at MTSU during the last semester of coursework;
9. two separate majors in business cannot be completed simultaneously.

### Bachelor of Science (B.S.) Degree

Each candidate for a Bachelor of Science (B.S.) degree must meet the following:

1. the University Degree Requirements (see page 56);
2. the General Education Requirements (see pages 60–63);
3. the specific requirements for the B.S. degrees as listed under departmental sections of the catalog for the following programs:
  - a. Business Education major includes a minor in Secondary Education leading to licensure to teach business subjects;
  - b. Business Education major with a required minor in Business Administration for students not seeking licensure to teach business subjects;
  - c. Economics liberal arts major without a specific required minor.

### Second Bachelor's Degree

Students seeking a second bachelor's degree should review the requirements in this catalog (see page 57).

All students seeking a second bachelor's degree in business must have completed or complete

- HIST 2010, 2020, or 2030, 6 hours;
- 24 or more hours in major plus auxiliary course requirements;
- 42 hours listed in item 3 under B.B.A. degree above.

A minimum of 50 percent of the total business hours required for a second degree must be taken at MTSU.

### Technology Proficiency

Students should be proficient in keyboarding and basic computer skills. The following courses may be elected by students to develop basic proficiency:

- BMOM 1310, Keyboarding, 3 hours
- INFS 2200, Introduction to Microcomputing, 3 hours

### Prerequisites

All students must complete or be enrolled in all lower-division requirements prior to enrolling in upper-division business courses. Individual courses may have additional prerequisites identified in the course descriptions in the catalog.

### Transfer Credit

Middle Tennessee State University accepts all transfer college credit from institutions of higher learning (see page 26). When transcripts are received, an Applicant Transfer Credit

Evaluation Form is sent to the applicant identifying how transfer courses equate to MTSU courses.

Applicants should meet with an advisor in the Jennings A. Jones College of Business for assistance in identifying which courses apply toward a business degree. All transfer credits may not meet specific course requirements, but they can often be used to meet elective requirements.

The Jennings A. Jones College of Business permits a lower-division transfer course to satisfy a specific upper-division business course requirement after a student successfully passes an MTSU comprehensive examination on the course under consideration.

Approval to take a comprehensive exam is granted by the department chair. The decision is based on a review of the educational background of the student to assess the probability that the student has gained enough knowledge from a similar course or courses to be likely to pass the exam. A proficiency level of 70 percent or higher must be attained to pass such an exam. A copy of the exam results will be retained in the department office. When a student passes such an exam, the department chair will recommend a course

substitution using the lower-division transfer course or courses to meet an upper-division course requirement.

Students may attempt the test two times provided at least four months have passed since the last test was attempted.

Comprehensive exams are available for the following courses:

BLAW 3400, Legal Environment of Business, 3 hours

BMOM 3510, Business Communication, 3 hours

BMOM 4510, Business Report Writing, 3 hours

ECON 3210, The Financial System and the Economy, 3 hours

FIN 3010, Business Finance, 3 hours

INFS 3100, Principles of Management Information Systems, 3 hours

MGMT 3610, Principles of Management, 3 hours

MGMT 3620, Production and Operations Systems, 3 hours

MKT 3820, Principles of Marketing, 3 hours

Q M 3620, Statistical Methods II, 3 hours

Other courses at the discretion of the department chair

### Cooperative Education

The college participates in the Cooperative Education program of the University. Business students interested in cooperative education hours should consult the appropriate section of this catalog. Cooperative Education (2930, 2940, 3970, 3980) can be used for elective credit only and will not count for credit in a major or minor in business.





# Department of Accounting

**Paula Thomas, Interim Chair**  
**Business and Aerospace Building N425C**

**Boyd, Brandon, Braswell, Burton, Bush, Colvard, Dawkins, Farmer, B. Harper, P. Harper, Harrington, James, Johns, Jones, Kile, Koski, McSwain, Reynolds, Smith, Wall, Ward, Wermert, Wilson, Womack**

The mission of the Department of Accounting is to provide a broad-based accounting education that prepares students for lifelong learning and professional growth throughout their careers. Fulfilling this mission requires that faculty maintain continuous intellectual growth, keep abreast of current developments in accounting education, and provide service to the profession.

The program provides a combination of specialized training for entry into all fields of accounting. Successful completion of this program results in the Bachelor of Business Administration degree. Graduates may be eligible to sit for the CPA (Certified Public Accountant) examination in Tennessee by completing 150 semester hours.

Students graduating with accounting degrees from MTSU have been quite successful in pursuing careers with CPA firms, large corporations, emerging companies, government entities, consulting firms, and a variety of other companies and institutions. The Accounting degree programs also assist students in pursuing professional certifications, such as the CPA (Certified Public Accountant), CMA (Certified Management Accountant), CIA (Certified Internal Auditor), and CISA (Certified Information Systems Auditor).

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

## Major in Accounting

In addition to meeting the Jennings A. Jones College of Business requirements (see page 162), an Accounting major consists of 27 semester hours of accounting and requires a minimum of 2.00 GPA. At least 50 percent of the required major hours must be taken in residence at MTSU. Majors must earn a C (2.00) or better in all accounting courses (includes ACTG 2110, 2120, and required courses listed below).

### Required Courses

ACTG 3110, 3120 Financial Accounting and Reporting I and II  
 ACTG 3310 Cost Accounting  
 ACTG 4510 Accounting Systems  
 ACTG 4530 Federal Taxes I  
 ACTG 4620 External Auditing I OR  
 ACTG 4640 Internal Auditing  
 ACTG electives\* 9 hours

*\*All upper-division accounting courses can be used for ACTG electives except ACTG 3000, 3020, and 4420.*

The following is the required course outline for the Accounting major with a minor in Business Administration.

### Required Program

#### Accounting—B.B.A. Degree

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
MATH 1630 (Math)	3	HUM 2610 (Hum/FA)	3
COMM 2200 (Comm)	3	Humanities and/or Fine Arts	
Natural Sciences (2 prefixes)	8	(2 prefixes)	6
Social/Behavioral Sciences	3	HIST 2010, 2020, or 2030	6
ECON 2410 (Soc/Beh Sci)	3	ACTG 2110, 2120	6
ECON 2420	3	Q M 2610; INFS 2200	6
Non-business elective	1	Non-business elective	3
	<b>30</b>		<b>30</b>
JUNIOR		SENIOR	
Q M 3620	3	BLAW 3400, 3430	6
INFS 3100	3	ECON 3210	3
MGMT 3610, 3620	6	MKT 3820	3
BMOM 3510	3	ACTG 4530, 4620 or 4640	6
FIN 3010	3	ACTG electives	9
ACTG 3110, 3120, 3310,		B AD 4980	3
4510	12		<b>30</b>
	<b>30</b>		

*\*All upper-division accounting courses can be used for ACTG electives except ACTG 3000, 3020, and 4420.*

### Minor in Accounting

An Accounting minor consists of 18 approved accounting hours. At least 6 hours must be taken in residence at MTSU. Credit is not allowed on an Accounting minor for (a) ACTG 1110, nor for (b) both ACTG 3000 and ACTG 2110, 2120, nor for (c) both ACTG 3310 and ACTG 3020. A minimum GPA of 2.00 must be attained.

### Combined Minor in Accounting/Information Systems

A student may obtain a combined Accounting/Information Systems minor consisting of 18 semester hours which includes ACTG 3000 (or 2110 and 2120), INFS 2200, 3100, and 3700, plus 6 hours of upper-division ACTG electives, not to include both ACTG 3310 and 3020. This is an excellent minor for students pursuing majors outside the Jennings A. Jones College of Business.

### Minor in Business Law

A minor in Business Law consists of BLAW 3400 and 3430; 9 additional hours of business law; and three hours in management, marketing, economics, finance, or accounting, approved in advance by the department coordinator.

## Courses in Accounting [ACTG]

- 1110 Introduction to Accounting.** Three credits. A one-semester general course for students desiring a knowledge of accounting terms, financial statements, and the capital structures of sole proprietorships, partnerships, and corporations. (Credit not allowed in a business major or minor.)
- 2110 Principles of Accounting I.** Three credits. Prerequisites: A college-level math course; ENGL 1010; sophomore standing. Accrual accounting, the accounting cycle, financial statements, etc., for proprietorships. (Not open to students with credit in ACTG 3000.)
- 2120 Principles of Accounting II.** Three credits. Prerequisite: ACTG 2110. A continuation of ACTG 2110 with emphasis on partnership and corporate entity accounting.
- 3000 Survey of Accounting for General Business.** Three credits. Accounting cycle given minor emphasis; financial statement analysis and managerial uses of accounting given major emphasis. May be used for General Business minors or M.B.A. candidates who have had no previous accounting courses. (Not open to Accounting majors and students with credit in ACTG 2110 and 2120.)
- 3020 (302) Managerial Accounting.** Three credits. Prerequisites: ACTG 2120 or 3000; junior standing. Analysis of costs of products and services, recognition of quantitative techniques relating to management objectives, overview of master budgeting, and planning and control techniques. Primarily designed for nonaccounting majors; should be taken immediately after completion of prerequisite course. (Not open to students with credit in ACTG 3310 or Accounting majors.)
- 3110 Financial Accounting and Reporting I.** Three credits. Prerequisites: ACTG 2120 or ACTG 3000 with minimum grade of C; MATH 1630; GPA of at least 2.00; junior standing. Accounting practices and fundamental theories (balance sheet sequence) with some review of authoritative accounting pronouncements.
- 3120 Financial Accounting and Reporting II.** Three credits. Prerequisite: ACTG 3110 with minimum grade of C. A continuation of ACTG 3110 topics.
- 3130 Financial Accounting and Reporting III.** Three credits. Prerequisite: ACTG 3120 with minimum grade of C. Accounting practices and fundamental theories with some authoritative accounting pronouncements.
- 3310 Cost Accounting.** Three credits. Prerequisites: ACTG 2120 or 3000 with minimum grade of C; MATH 1630; INFS 2200; junior standing. Determine costs of products or services, apply quantitative concepts relating to management objectives, prepare master budgets, and perform various techniques for planning and controlling in a business environment. Primarily designed for accounting majors; should be taken after completion of prerequisite courses.
- 3560 General Taxation and Accounting.** Three credits. Prerequisites: ACTG 2120 with C or better; junior standing. Current tax topics related to payrolls, sales and excise taxes, personal property and realty taxes, and estate and gift taxes; local, state, and federal taxing systems as applied to taxpayers as individuals and as small business and property owners. (Not open to Accounting majors.)
- 4110 Advanced Financial Accounting.** Three credits. Prerequisite: ACTG 3120 with minimum grade of C. Accounting practices and theories for partnerships, business reorganization, joint ventures, consolidated financial statements, international accounting, etc.
- 4310 Advanced Cost Accounting.** Three credits. Prerequisites: ACTG 3310 with minimum grade of C; Q M 3620. In-depth analysis of costs; quantitative concepts relating to management objectives, control, and planning. Application of statistical techniques to solve managerial accounting problems. Heavy use of technology and communications in solving various accounting situations.
- 4420 Accounting Internship.** Three credits. Prerequisites: Senior standing or consent of advisor; a plan of activities with the associated firm, prior to registration. Active employment with an accounting firm, governmental agency, or business firm for accounting field work; credit given for experience and research upon completion of acceptable work and formal report. (Not counted as part of 27-hour Accounting major requirements.)
- 4510 Accounting Systems.** Three credits. Prerequisites: ACTG 2120 or 3000 with minimum grade of C; INFS 2200; junior standing. Current developments in establishment of complete accounting systems and the application of principles to typical business organizations. Special emphasis on accounting cycle controls and database design.
- 4530 Federal Taxes I.** Three credits. Prerequisites: ACTG 2120 or 3000 with minimum grade of C; junior standing. Addressed to a determination of taxable income for individuals; federal income tax returns and research methods.
- 4540 Federal Taxes II.** Three credits. Prerequisites: ACTG 3120 and 4530 with minimum grade of C. Structure of taxation for corporations, partnerships, estates, trusts, gifts; returns and research.
- 4570 International Accounting.** Three credits. Prerequisites: ACTG 2110 and 2120 or equivalent with C or better; junior standing. Provides exposure to development of accounting systems and entrepreneurial practices in various countries, specific international financial reporting issues, international financial statement analysis, managerial accounting issues for global businesses including budgeting and control, and international taxation issues.
- 4610 Governmental Accounting and Reporting.** Three credits. Prerequisites: ACTG 3120 with minimum grade of C. State and local government accounting principles and procedures; classifications of accounts for budgetary and financial reporting; accounting for revenues and expenditures or expenses; reporting for funds and the governmental entity; and auditing the governmental entity.
- 4620 External Auditing I.** Three credits. Prerequisites: ACTG 3120 and 4510 with minimum grade of C; Q M 3620. Applications of theory and principles of auditing, verifying accounting data, preparation of reports by public accountants, auditor roles, liability, etc.
- 4630 External Auditing II.** Three credits. Prerequisite: ACTG 4620 with minimum grade of C. Audit procedures used in tests of controls and in substantive tests for the major transaction cycles by using both microcomputer and statistical sampling.
- 4640 Internal Auditing.** Three credits. Prerequisite: ACTG 3120 with a minimum grade of C. Introduction to the field of internal auditing. Primary focus on data gathering and report writing unique to the field of internal auditing.
- 4650 Accounting Theory.** Three credits. Prerequisite: ACTG 3120 with minimum grade of C (or taken concurrently). Analysis of propo-

sitions, axioms, theorems, controversial accounting concepts, and authoritative statements and research on accounting principles.

- 4660 Experiences in Financial Reporting.** Three credits. Prerequisite: ACTG 3120 with minimum grade of C. Focus on applying accounting and reporting requirements to selected financial reporting issues and cases. (Not open to students with credit in ACTG 4650.)
- 4680 Forensic Accountancy and Fraud Auditing.** Three credits. Prerequisite: ACTG 4620 or 4640 or approval of department chair. The practice of forensic accounting, i.e., nontraditional investigative aspects of accountancy (e.g., litigation support, business interruptions, etc.); emphasis on fraud prevention and the detection of fraudulent intent to obtain improper individual or group gains.
- 4980 Independent Study in Accounting.** One to three credits. Prerequisites: Senior standing, 3.00 overall GPA, and consent of department chair. Accounting research or project in contemporary problem areas under direct faculty supervision. Aggregate credits allowable toward a degree may not exceed 3 hours under 4980 courses.

## Courses in Business Law [BLAW]

- 3400 Legal Environment of Business.** Three credits. Prerequisite: Junior standing. Legal rights and potential liabilities of business persons. Presentation of the dynamic nature of law in responding to the changing social, ethical, political, regulatory, and international environment. Includes the development and nature of the legal system; business crimes; the law of torts and product liability; constitutional limitations on regulatory powers; legislative, judicial, and administrative control of business activity through the laws of business organizations, securities regulations, antitrust laws, employment laws, labor and safety laws, and consumer protection.
- 3430 Commercial Law.** Three credits. Prerequisite: Junior standing. Legal rights and potential liabilities of business persons. Includes basic law of contracts; UCC; sales; commercial paper; secured transactions and credit; bankruptcy; personal property and bailments; real property; and wills, trusts, and estates.
- 3460 Insurance Law.** Three credits. Prerequisite: BLAW 3400. Risks covered by the insurance contract, their selection and control; making, constructing, and enforcing the contract; negotiation and settlement of claims; misconduct of agents. Government regulation of the insurance industry. Emphasis on current principles, policies, procedures, and practices in insurance.
- 4420 Estate Administration.** Three credits. Prerequisite: Junior standing. Procedures for the disposition of wealth. Includes survey of the probate and administration process, jurisdiction and venue, collection of assets, estate valuation, inter vivos transfers, intestate and testate succession, gifts, trusts, insurance, marital deductions, power of executors and administrators, settlement, distribution, and accounting.
- 4450 Unfair Trade Practices and Consumer Protection.** Three credits. Prerequisite: Junior standing. Examines and evaluates the law of unfair and deceptive trade practices, consumer protection, and intellectual property, including antitrust law, misleading advertising, and other marketing practices.
- 4470 Real Estate Law.** Three credits. (Same as FIN 4470.) Prerequisite: Junior standing. Legal rights and limitations of ownership of property, estates, titles, methods of transferring titles, abstract

of titles, mortgages, leases, easements, restrictions on the use of property, real estate development and planning, application of contract law to real property, and the administration of wills.

- 4490 Industrial Relations Legislation.** Three credits. (Same as MGMT 4490 and ECON 4490.) Prerequisite: Junior standing. Economic background and effects of government regulation of labor relations; emphasis on a detailed examination of the National Labor Relations Act as amended or expanded by the Labor Management Relations Act, the Labor Management Reporting and Disclosures Act, and Title 7 of the Civil Rights Act.
- 4500 Employment Discrimination Law.** Three credits. (Same as MGMT 4500.) Prerequisite: Junior standing. A detailed examination of the legal rights and responsibilities of employers and employees with respect to fair employment practices; emphasis on significant statutes, administrative regulations, and judicial decisions forming the body of antidiscrimination law.
- 4990 Independent Study.** One to three credits. Prerequisites: Senior standing and approval of department chair. Individual research and analysis of contemporary problems and issues in a concentrated area of study under the guidance of an approved faculty member.

## Graduate Study

Requirements for the Master of Science in Accounting/Information Systems and for the Master of Business Administration degrees and a list of the courses offered for graduate credit are published in the Graduate Catalog.





# Department of Business Education, Marketing Education, and Office Management

Linda McGrew, Chair  
Business and Aerospace Building N429C

Balachandran, Blair, Bullard, Cole, Fann, Lewis, Moore, Sawyer,  
Scheffelmaier, M. Smith, V. Smith

The mission of the Department of Business Education, Marketing Education, and Office Management is to educate students through a blend of cultural knowledge, economic literacy, communication skills, basic business tools, and specialized knowledge to help them assume roles as consumers, workers, entrepreneurs, and citizens. Program offerings provide a quality business education with appropriate background for professional administrative office careers. Specialized instruction in business education and marketing education prepares graduates for secondary teaching and corporate training. Baccalaureate programs provide a foundation for graduate study.

The BMOM Department offers undergraduate majors in Business Education, Entrepreneurship, and Office Management. The Business Education major leads to the Bachelor of Science degree while the Entrepreneurship and Office Management majors lead to the Bachelor of Business Administration. The department is a state-approved Office Education Center and provides courses and workshops required of public school business and office education teachers.

Minor programs are offered in Business Communication, Entrepreneurship, Marketing Education, and Office Management.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

## Major in Business Education

Business Education majors receive preparation for teaching business subjects in junior and senior high schools, vocational-technical schools, and junior colleges. The Business Educa-

tion major who is licensed to teach will have a minor in Secondary Education. The Business Education major will be licensed to teach all business courses as outlined under the section entitled “Teacher Licensure Requirements.”

### Recommended Program

#### Business Education—B.S. Degree

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
MATH 1630 (Math)	3	HUM 2610 (Hum/FA)	3
COMM 2200 (Comm)	3	Humanities and/or	
Natural Sciences (2 prefixes)	8	Fine Arts (2 prefixes)	6
Social/Behavioral Sciences	3	HIST 2010, 2020, or 2030	6
BMOM 1400, 2320	6	BMOM 2330, 2340	6
	<b>29</b>	ECON 2410 (Soc/Beh Sci)	3
		ECON 2420	3
		ACTG 2110, 2120	6
		Q M 2610	3
			<b>36</b>
JUNIOR		SENIOR	
FOED 1110, 2110§	6	Secondary Education	
Secondary Education minor§	3	minor§	15
BLAW 3400	3	FIN 3010	3
MGMT 3610	3	BMOM 4240, 4710	6
BMOM 3510, 4250, 4340,		Elective	1
4510	12		<b>25</b>
MKT 3820	3		
	<b>30</b>		

§The Secondary Education minor has been revised. Please see page 193 and contact the Educational Leadership Department for information.

## Teacher Licensure Requirements

### Business Education

Business Education majors will be licensed to teach all courses in the business and business technology areas. Students must take business and specialty exams required for special endorsement areas.

### Business/Business Technology

By completing the Business Education major as outlined, one is automatically licensed to teach the following courses: Accounting I and II; Administrative Management Systems; American Business/Legal Systems; Automated Accounting; Business Economics; Computer Productivity Applications; Database Design/Management; Desktop Publishing; Document Creation Design; Electronic Commerce/Web Page Design; Financial Planning; Information Management Systems; Interactive Multimedia Design; International Business/Marketing; Internet Navigation Communication Systems; Keyboarding; Keyboarding Applications; Management; Networking Essentials; Personal Computing; Principles of Business; Programming; Programming Applications; Spreadsheet Applications.

### Marketing Certification

Business Education majors can be licensed to teach marketing education by taking BMOM 4520 and 4600.

**NOTE:** Licensure requirements are subject to change by action of the State Board of Education; those graduating should consult a business education or marketing education advisor.

**NOTE:** Students who have not had keyboarding in secondary school must take BMOM 1310.



**NOTE:** Students should submit documentation of work experience to their advisors or enroll in BMOM 4810.

### Major in Business Education, Non-Teaching

Students who seek to be graduated without meeting licensure requirements are not required to take the courses for the Secondary Education minor and should complete the requirements below.

Additionally, a business education, non-licensure training and development option may be selected and includes the following courses: BMOM 4200, 4410, 4450, 4660, 4810 or approved BMOM 4000 elective, and B AD 4980.

Both options include a Business Administration minor and 50 percent of the required major hours in residence at MTSU.

**Recommended Program**

<b>Business Education: Non-Teaching Option—B.S. Degree</b>			
<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
MATH 1630 (Math)	3	HUM 2610 (Hum/FA)	3
COMM 2200 (Comm)	3	Humanities and/or	
Natural Sciences (2 prefixes)	8	Fine Arts (2 prefixes)	6
Social/Behavioral Sciences	3	HIST 2010, 2020, or 2030	6
BMOM 1400, 2320	6	ACTG 2110, 2120	6
Non-business elective	1	ECON 2410 (Soc/Beh Sci)	3
	<b>30</b>	Q M 2610	3
		BMOM 2330	3

<b>JUNIOR</b>		<b>SENIOR</b>	
BMOM 2340	3	BMOM 3010	3
INFS 3100	3	BMOM 4810 or BMOM	
MGMT 3610, 3620	6	upper-division elective	3
MKT 3820	3	BMOM 4240 or BMOM	
BMOM 3510, 4510	6	upper-division elective	3
FIN 3010	3	BMOM electives	6
ECON 2420	3	Non-business electives	6
BLAW 3400	3	Non-business upper-division	
	<b>30</b>	electives	6
		B AD 4980	3
			<b>30</b>

**Business Education: Training and Development Option—B.S. Degree**

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
MATH 1630 (Math)	3	HUM 2610 (Hum/FA)	3
COMM 2200 (Comm)	3	Humanities and/or	
Natural Sciences (2 prefixes)	8	Fine Arts (2 prefixes)	6
ECON 2410 (Soc/Beh Sci)	3	HIST 2010, 2020, or 2030	6
BMOM 1400, 2330	6	Social/Behavioral Sciences	3
Non-business elective	1	ACTG 2110, 2120	6
	<b>30</b>	ECON 2420	3
		Q M 2610	3
			<b>30</b>

<b>JUNIOR</b>		<b>SENIOR</b>	
INFS 3100	3	BMOM 4450	3
MGMT 3610, 3620	6	BMOM 4810 or BMOM	
MKT 3820	3	upper-division elective	3
BMOM 3510, 4510	6	BMOM 4200, 4410, 4660	9
FIN 3010	3	BMOM elective	3
BLAW 3400	3	Non-business electives	9
BMOM 3010	3	B AD 4980	3
Non-business elective	3		
	<b>30</b>		<b>30</b>

### Minor in Marketing Education

A minor in Marketing Education consists of the following 15 hours: BMOM 1400, 2900, 3510, 4520, and 4600. Six hours must be taken at MTSU.

### Major in Entrepreneurship

The major in Entrepreneurship offers preparation to students for successful venture creation and implementation and provides them opportunities to acquire the necessary operational knowledge to start a new enterprise and to study business communication, marketing, finance, management, economics, accounting, and information systems from an entrepreneurial perspective. The curriculum is flexible—students may tailor the program to fit specific needs while acquiring the business background necessary for pursuing entrepreneurial goals. Successful business professionals contribute to the program and an advisory board of recognized entrepreneurial leaders will mentor students. Specialized courses, an internship, and interaction with acknowledged business leaders are intended to provide the impetus to start and operate a successful business.

A major in Entrepreneurship consists of 30 hours, 50 percent of which must be taken in residence at MTSU, and includes a Business Administration minor. Course requirements for the major follow.

**Recommended Program**

<b>Entrepreneurship—B.B.A. Degree</b>			
<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
MATH 1630 (Math)	3	HUM 2610 (Hum/FA)	3
COMM 2200 (Comm)	3	Humanities and/or	
Natural Sciences (2 prefixes)	8	Fine Arts (2 prefixes)	6
Social/Behavioral Sciences	3	HIST 2010, 2020, or 2030	6
ECON 2410 (Soc/Beh Sci)	3	ACTG 2110, 2120	6
BMOM 1400	3	ECON 2420	3
Non-business elective	1	BMOM 2900	3
	<b>30</b>	Q M 2610	3
			<b>30</b>

<b>JUNIOR</b>		<b>SENIOR</b>	
Q M 3620	3	BMOM 2330 or 2340 or	
INFS 3100	3	INFS 2200	3
MGMT 3610, 3620	6	MKT 3930	3
MKT 3820	3	MGMT 3650, 4920	6
BMOM 3510	3	BMOM 4620	3
FIN 3010	3	BMOM 4810 or MGMT/MKT	
ECON 3210	3	4950	3
BLAW 3400	3	MKT upper-division elective	3
BMOM 4510 or MGMT	3	Non-business elective	6
upper-division elective	3	B AD 4980	3
	<b>30</b>		<b>30</b>

### Minor in Entrepreneurship

A minor in Entrepreneurship consists of the following 18 hours: BMOM 1400, 2900; ACTG 3000 or FIN 3000; MGMT 3610, 4920; and MKT 3820. Nine hours must be taken at MTSU.

## Major in Office Management

Office Management majors receive preparation to become administrative office managers, word processing managers, and administrative assistants. The program offers preparation for support positions in other business areas such as banking, real estate, and management. The major consists of 30 hours, 50 percent of which must be in residence at MTSU, and includes a Business Administration minor. Course requirements for the major are listed below.

### Recommended Program

#### Office Management—B.B.A. Degree

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
MATH 1630 (Math)	3	HUM 2610 (Hum/FA)	3
COMM 2200 (Comm)	3	Humanities and/or	
Natural Sciences (2 prefixes)	8	Fine Arts (2 prefixes)	6
ECON 2410 (Soc/Beh Sci)	3	HIST 2010, 2020, or 2030	6
BMOM 2320, 2330	6	Social/Behavioral Sciences	3
Non-business elective	1	ACTG 2110, 2120	6
	<b>30</b>	ECON 2420	3
		Q M 2610	3
			<b>30</b>
JUNIOR		SENIOR	
Q M 3620	3	BMOM 4350, 4510, 4640,	
INFS 3100	3	4660	12
MGMT 3610, 3620	6	BMOM 4800 or 4810	3
BMOM 2340, 3510, 3010	9	BMOM elective	3
FIN 3010	3	Non-business electives	9
MKT 3820	3	B AD 4980	3
BLAW 3400	3		<b>30</b>
	<b>30</b>		

## Minor in Office Management

A minor in Office Management consists of 15 hours and must include BMOM 3010 and 3510. The remaining 9 hours are to be selected from BMOM 1310 or 2320, 2330, 4350, 4510, 4660, 4670. Six hours must be taken at MTSU.

## Minor in Business Communication

A minor in Business Communication consists of 15 hours and must include BMOM 3510, 4510, 4660, and 4670. The remaining 3 hours are to be selected from BMOM 1550, 2320, 2330. Nine hours must be taken at MTSU.

## Courses in Business Education, Marketing Education, and Office Management [BMOM]

**1000 Keyboarding for Computers.** One credit. (Class meets two 50-minute periods per week for 7 1/2 weeks—a new class begins at midpoint of the semester.) Basic instruction on the electronic alphanumeric keyboard. Students needing to operate a computer terminal keyboard receive instruction in basic skills required to input information swiftly and efficiently.

**1310 Keyboarding.** Three credits. Development of manipulative ability; information essential to effective use of a computer keyboard; rapid and controlled application of ability and information to communication problems involving personal correspondence and simple business materials.

**1400 Introduction to Business.** Three credits. Survey of business economic units of our society; the problems of business such as ownership, social responsibility, physical factors, personnel, marketing, and managerial controls. Includes exploration and analysis of business careers.

**1410 Applied Distributive Computation.** Three credits. Relates mathematical computations using electronic calculating methods to a broad area of business, marketing, and administrative office occupations.

**1550 Introduction to Word Processing Skills.** Three credits. (BMOM 1310 recommended.) Technical skills necessary for working in word processing centers. Special emphasis given to business vocabulary, proofreading, and improvement of business documents such as letters, memoranda, and reports.

**2000 Business and Society.** Three credits. Introduction to the increasingly complex set of interrelationships between the business organization and its environment. Selected topics raise major issues involved in business/society relationships; includes current assessment of the role that business plays within a changing society. (Credit not allowed in a business major or minor.)

**2280 Medical Dictation and Transcription.** Three credits. High speed dictation and transcription of medical material. Two- and three-voice dictation.

**2320 Document Production.** Three credits. (BMOM 1310 recommended.) Extension and refinement of fundamental manipulative abilities and keyboarding knowledges; development of production capacity through the completion of increasingly involved problems.

**2330 Word Processing Concepts.** Three credits. (BMOM 2320 recommended.) Familiarization with word processing equipment, implications, and applications in business operations.

**2340 Microcomputer Word Processing Applications.** Three credits. Prerequisite: BMOM 2330. Advanced word processing and computer applications, including formatting and preparation of lengthy documents such as company newsletters and databases.

**2350 Advanced Document Formatting.** Three credits. Prerequisite: A grade of C or higher in BMOM 2320. Development of keyboarding/typewriting skills and decision making as demonstrated in the production of quantities of material in usable form.

**2600 Business Applications of Desktop Publishing.** Three credits. Prerequisites: Keyboarding skills and knowledge of computer. Topics include terminology, technology, design, use of graphics, and applications for desktop publishing.

**2760 Legal and Technical Terminology.** Three credits. Covers the most common legal terms, their pronunciations and spellings, needed by legal assistants.

**2900 Entrepreneurship.** Three credits. (BMOM 1400 recommended.) The mechanics and operational skills needed for organizing and operating an enterprise.

**3010 Office Management.** Three credits. Prerequisite: Junior standing. Office organization and functions; layout and equipment; selection, training, and supervision of personnel; office automation; planning, organizing, and controlling office services; cost reduction; work simplification.

- 3510 Business Communication.** Three credits. Prerequisite: Junior standing. (Keyboarding skills helpful.) A review of the theory and processes in oral and written business communication. Emphasis on the extensive functions of written and electronic communications.
- 4200 Problems in BE/ME/OM.** One, two, or three credits. Prerequisites: Junior standing and consent of department chair. Individual research, reading analysis, or projects in contemporary problems and issues in a concentrated area of study under the direction of a faculty member. This course may be taken only twice.
- 4210 Innovations and Problems in Accounting.** Three credits. Prerequisites: ACTG 2110 and 2120; junior standing. A short history of accounting and data processing including aims, evaluation of textbooks, teaching strategies, testing, and course content.
- 4240 Materials and Methods in Basic Business.** Three credits. Prerequisite: Junior standing. Analysis of objectives, materials, research, and appropriate instructional strategies for developing teaching strategies and delivery systems in basic business courses such as introduction to business, economics, business communication systems, American business/legal systems, business management, and marketing.
- 4250 Innovations and Problems in Administrative Business Services and Technology.** Three credits. Prerequisite: Junior standing. (BMOM 2330 recommended.) Instructional strategies in office technology including objectives, testing, audio-visuals, course content, basic programming, and standards.
- 4340 Integrated Administrative Technology.** Three credits. Prerequisites: BMOM 2330 and 2340; junior standing. Development of necessary skills for administrators of word processing centers. Word processing feasibility, development, and implementation for business using a total information processing concept. Students have the opportunity to develop a thorough knowledge and refine skills using a variety of software applications.
- 4350 Records Management.** Three credits. Prerequisite: Junior standing. Equipment and systems used for information storage, transmission, and retrieval. Filing, microfilming, tape processing and storage system design, form usage, and other information management functions in the office included.
- 4410 Managerial Media Presentations.** Three credits. Prerequisite: Junior standing. (BMOM 2330 recommended.) Skills needed to make business presentations. Emphasis on the communication process, audience analysis, planning, presentation design, delivery, and appropriate hardware and software.
- 4450 Training Strategies for Business Systems and Technology.** Three credits. Prerequisite: Junior standing. (BMOM 4410 recommended.) Corporate learning specialist activities such as design, development, delivery, and evaluation of learning programs for a business environment. Focuses on adult learning theories with emphasis on professional learning activities related to innovative corporate educational programs.
- 4510 Business Report Writing.** Three credits. Prerequisite: Junior standing. (BMOM 3510 recommended.) Nature, general function, and present need of reports in industry. Recognizing, organizing, and investigating problems preparatory to writing reports and construction and writing of distinctive business and technical reports.
- 4520 Instructional Strategies in Marketing Education.** Three credits. Prerequisite: Junior standing. Techniques of teaching with emphasis on problem-solving and demonstration procedures. Emphasizing teaching-learning evaluation.
- 4600 Organization and Administration of ME Programs.** Three credits. Prerequisite: Junior standing. Organizing marketing education programs at secondary and postsecondary levels; emphasizes youth organizations, techniques of coordination, and administrative procedures.
- 4620 Business Plan Development.** Three credits. Prerequisites: BMOM 2900; MGMT 3650; junior standing. Development of a comprehensive business plan detailing all facets of a proposed venture with an emphasis on using the plan for loan acquisition and venture implementation.
- 4640 Problems in Office Management.** Three credits. Prerequisite: Junior standing. (BMOM 3010 recommended.) Significant research of emerging problems in office management: group dynamics, workplace issues, ethics and diversity information processing, and problem solving.
- 4650 Women in Business.** Three credits. Prerequisite: Junior standing. Examination of opportunities available for women in professional business careers with emphasis on developing professionalism, understanding problems, and studying the social and economic impact of women in professional careers.
- 4660 Organizational Communication.** Three credits. Prerequisite: Junior standing. (BMOM 3510 recommended.) Research and analysis of case studies of significant research; case studies in business communication; communication policies, principles, and procedures from the executive's viewpoint.
- 4670 International Business Communication.** Three credits. Prerequisite: Junior standing. Provides students with a theoretical and practical framework for understanding and conducting effective international business communication. Emphasis on the analysis and development of international business communication processes.
- 4680 Diversity in the Workplace.** Three credits. Prerequisite: Junior standing. Emphasis on developing skills essential for working effectively with a diverse work force in global and domestic settings, incorporating the value of diversity into organizations, and building multicultural work teams.
- 4710 History and Foundations of BE and ME.** Three credits. Prerequisite: Junior standing. Developments, aims, principles, and present status of business education; organization and evaluation of the business education curriculum; administration and supervision of business education.
- 4730 Consumer Education.** Three credits. Prerequisite: Junior standing. Concepts of consumer education related to instructional programs in business; sources of information and formulation of a conceptual framework essential to the decision-making process.
- 4800 Administrative Office Simulation.** Three credits. Prerequisites: BMOM 2330, 2340; junior standing. Culmination course serving as a transition from the traditional classroom atmosphere to the administrative office atmosphere; emphasis on information and administrative management and controlled decision making through simulation experiences.

**4810 Internship Program.** Three credits. Prerequisite: Junior standing. A supervised program of related work experience. Provides experiential opportunities for the application of the theoretical concepts learned.

**4900 Dimensions in Professional Development.** Three credits. Prerequisite: Junior standing. Emphasis on job acquisition process, time management, effective listening skills, oral and nonverbal communication competencies, dictation management, and assumption of professional responsibility for participative management activities.

### **Graduate Study**

The BMOM Department offers a graduate major leading to a Master of Business Education degree. Requirements and a list of the courses offered for graduate credit are published in the Graduate Catalog.





# Department of Computer Information Systems

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**Stan Gambill, Chair**  
**Business and Aerospace Building N333C**

Adams, Aggarwal, Apigian, Boswell, C. Clark, J. Clark, Freeman, Gober, Greer, Holmes, Hughes, Jih, Korzaan, Lee, Maier, Morris, Murtaza, Seipel

The mission of the Department of Computer Information Systems is to provide programs to prepare students to solve business problems through the use of computer information systems, computer tools, and techniques; to prepare students in the management of computer information systems; to provide foundation courses to students in other fields; to encourage intellectual contributions that advance the state of knowledge in the application of information technology and quantitative methods to the solution of business problems; and to promote the involvement of department members in service activities.

The Computer Information Systems program is designed to prepare the student to assume information systems/technology responsibilities in any organization. Exposure to a broad range of business functions coupled with learned information systems concepts and skills will serve the student well in positions such as computer programmer, database designer/administrator, data communications manager/specialist, systems analyst, computer marketing specialist, or information center specialist.

At least 50 percent of the required major hours must be taken in residence at MTSU for a major in Information Systems and 6 hours for a minor. All Information Systems majors have a built-in minor in Business Administration.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

## Major in Information Systems

In addition to meeting the business requirements (see page 162), an Information Systems major consists of 30 hours of information systems courses. Majors must earn an overall minimum GPA of 2.00 in their required information systems courses.

The following 21 hours are required of all Information Systems majors:

- INFS 2720 COBOL Applications
- INFS 3200 Business Application Development
- INFS 3700 Systems Analysis and Design
- INFS 4760 Advanced Programming
- INFS 4790 Database Design and Development
- INFS 4900 Business Data Communications
- INFS 4980 Information Systems Project

In addition, 9 hours of electives must be chosen from the following courses:

- INFS 2200 Introduction to Microcomputing
- INFS 2730 Programming Languages
- INFS 3500 Decision Support Systems
- INFS 3990/4990 Independent Study in Information Systems
- INFS 4200 Data Enhanced Internet Applications
- INFS 4420 Information Systems Internship
- INFS 4500 New Technologies in Information Systems
- INFS 4740 Information Resource Management
- INFS 4830 Database Programming

The following is the required course outline for the Information Systems major with a minor in Business Administration.

**Required Program**

**Information Systems—B.B.A. Degree**

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
MATH 1630 (Math)	3	HUM 2610 (Hum/FA)	3
COMM 2200 (Comm)	3	Humanities and/or	
Natural Sciences (2 prefixes)	8	Fine Arts (2 prefixes)	6
ECON 2410 (Soc/Beh Sci)	3	HIST 2010, 2020, or 2030	6
INFS elective	3	Social/Behavioral Sciences	3
Non-business elective	4	ACTG 2110, 2120	6
	<b>30</b>	ECON 2420	3
		Q M 2610	3
			<b>30</b>
<b>JUNIOR</b>		<b>SENIOR</b>	
Q M 3620	3	INFS 3200, 3700, 4760,	
ECON 3210	3	4790, 4900, 4980	18
BLAW 3400	3	INFS electives	6
INFS 3100	3	Q M 4010	3
MGMT 3610, 3620	6	B AD 4980	3
MKT 3820	3		<b>30</b>
FIN 3010	3		
BMOM 3510	3		
INFS 2720	3		
	<b>30</b>		

**Minor in Information Systems**

A minor in Information Systems consists of 15 semester hours of coursework in information systems, 6 hours of which must be taken at MTSU. INFS 3100 and 3700 are required. In addition, 9 hours of approved INFS electives are required.

**Combined Minor in Accounting/Information Systems**

A student may obtain a combined Accounting/Information Systems minor consisting of 18 semester hours which include ACTG 3000 (or 2110 and 2120), INFS 2200, 3100, and 3700, plus 6 hours of upper-division ACTG electives, not to include both ACTG 3310 and 3020. This is an excellent minor for students pursuing majors outside the Jennings A. Jones College of Business.

**Courses in Information Systems [INFS]**

- 1000 Introduction to Computers and Related Topics.** Three credits. An overview of the workings of a computer including hardware, software, and applications. Provides hands-on experience with various software packages. (Not open to business majors.)
- 2200 Introduction to Microcomputing.** Three credits. Microcomputer applications and the microcomputer environment.
- 2720 COBOL Applications.** Three credits. Prerequisite: INFS 2200 or permission of instructor. Systems of commercial computer programming using Common Business Oriented Language in solving business problems.
- 2730 Programming Languages.** Three credits. Object-oriented programming methods. Topics include fundamental programming structures, objects and classes, encapsulation, inheritance and polymorphism, exceptions, graphical user-interfaces and event handling, and file processing. Emphasis on practical applications of object-oriented concepts in business context.
- 3100 Principles of Management Information Systems.** Three credits. Prerequisite: Junior standing. The role of information technology in organizations.
- 3200 Business Application Development.** Three credits. Prerequisites: INFS 2200 or foundation knowledge of microcomputer applications; junior standing. An applications-oriented course; extensive laboratory work and development of projects.
- 3500 Decision Support Systems.** Three credits. Prerequisite: Junior standing. Focus on three subsystems of computer-based information systems: decision support systems (DSS), expert systems (ES), and executive information systems (EIS).
- 3700 Systems Analysis and Design.** Three credits. Prerequisites: 6 hours of information systems; junior standing. Applied system analysis and design (concepts and techniques) including problem definition, feasibility analysis, various modeling methods, hardware and software selection, documentation, physical design, and auditing procedures. Appropriate automated technologies used throughout the course.
- 3990 Independent Study in Information Systems.** One to three credits. Prerequisites: Junior standing and consent of department chair. Assigned research or projects in contemporary problem areas in the information systems discipline under direct faculty supervision. Aggregate credits allowable toward a degree may not exceed 3 hours under 3990 courses.
- 4200 Data Enhanced Internet Applications.** Three credits. Prerequisite: INFS 3200 or permission of instructor. Focus on database system design, deploying, maintaining, and querying a database using appropriate hardware and software. E-commerce applications in a microcomputer environment.
- 4420 Information Systems Internship.** Three credits. Prerequisites: Junior standing, consent of advisor, and a plan of activities with the associated firm prior to registration. Active employment with a governmental agency or business firm for information systems/accounting fieldwork; credit given for experience and research upon completion of acceptable work and formal report. Aggregate credits allowable toward a degree in information systems may not exceed 3 hours under 4420 courses.

- 4500 New Technologies in Information Systems.** Three credits. Prerequisites: 12 hours of information systems credit; senior standing. Future technological advances including automating the creation and maintenance of systems with CASE tools, systems engineering packages, and integrated CASE technologies.
- 4740 Information Resource Management.** Three credits. Prerequisites: 6 hours of information systems; junior standing. Information technologies utilizing computers as a competitive tool in a global environment.
- 4760 Advanced Programming.** Three credits. Prerequisites: INFS 2720; junior standing. Functional programming experience in structured programming techniques; top-down design; advanced file handling and maintenance techniques to include sequential, indexed sequential, direct, and relative file organization; interactive, menu-driven applications; and uploading/downloading programs to a central site. Requires extensive laboratory work.
- 4790 Database Design and Development.** Three credits. Prerequisites: INFS 3200; junior standing. Fundamental concepts: conventional data systems, integrated management information systems, database structure systems, data integration, complex file structure, online access systems. Emphasis on total integrated information systems database and database management languages.
- 4830 Database Programming.** Three credits. Prerequisites: INFS 2200, 3700, and junior standing. Operational database design and implementation. Includes the development of the interfaces that enable end users to query the database contents and transform data into information. Requires each student to participate fully in a group project.
- 4900 Business Data Communications.** Three credits. Prerequisites: 6 hours of information systems; junior standing. Practical explanation of data communications technologies and basic applications for business. Includes projects to develop a prototype network in a lab environment for hands-on experience.
- 4980 Information Systems Project.** Three credits. Prerequisites: Senior standing and 12 hours of information systems credit in-

cluding INFS 3200 and 3700. Systems Development Life Cycle (SDLC) design and implementation. Appropriate automated technologies used throughout the course.

- 4990 Independent Study in Information Systems.** One to three credits. Prerequisites: Senior standing and consent of department chair. Assigned research or projects in contemporary problem areas in the information systems discipline under direct faculty supervision. Aggregate credits allowable toward a degree may not exceed 3 hours under 4990 courses.

## Courses in Quantitative Methods [Q M]

- 2610 Statistical Methods I.** Three credits. Prerequisite: MATH 1630 or 1810. Identification, interpretation, and use of statistical data. Topics include measures of central tendency, variation, probability theory, point and interval estimation, and hypothesis testing. Computer applications emphasized.
- 3620 Statistical Methods II.** Three credits. Prerequisites: Q M 2610; junior standing. More advanced methods of statistical analysis including simple and multivariate tests of hypotheses, non-parametric methods, correlation, regression, and time-series analysis. Computer applications emphasized.
- 3640 Introduction to Operations Research.** Three credits. Prerequisites: Q M 3620; junior standing. Optimization techniques used in business decision making.
- 4010 Decision Science Techniques.** Three credits. Prerequisites: Q M 2610 and MGMT 3620; junior standing. Current topics of quantitative management decision analysis and modeling. Computer application emphasized.

## Graduate Study

Requirements for the Master of Science in Accounting/Information Systems and for the Master of Business Administration degrees and a list of the courses offered for graduate credit are published in the Graduate Catalog.



# Department of Economics and Finance

## John Lee, Chair Business and Aerospace Building N329C

Baum, Deme, DePrince, Eff, Evans, Fayissa, Feller, Ford, Fowler, Graddy, Hannah, Haskew, Hollman, Homaifar, Klein, Kyle, Lee, Michello, Naqvi, Norman-Zietz, Nguyen, Penn, Sarver, Strickland, Timmons, Zietz

The mission of the Department of Economics and Finance is to teach students the foundations of economics and finance theory and methodology with a global perspective on markets and the institutional environment.

The department offers programs which lead to the B.B.A. degree with majors in either Economics or Finance and to the B.S. degree in Economics. The B.S. degree in Economics is offered through the College of Liberal Arts.

The Economics major will interest those considering careers in business, education, government, and law. Concentrations in Public Finance and Labor Relations are available.

The Finance major program focuses on the financial sectors of modern economies. Students are provided with the needed analytical foundations and with an introduction to financial processes and institutions. Within the Finance major, students may select a concentration in Business Finance, Financial Institution Management, Insurance, or Real Estate.

Successful students majoring in Economics and Finance are well prepared for careers in the private business sector and public service and for further graduate studies.

The department houses the Weatherford Chair of Finance and the Martin Chair of Insurance. Holders of the two chairs are charged with promoting study leading to careers in financial institution management and insurance, respectively.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

## Major in Economics

Economics majors are encouraged to enroll in Honors sections of 2410 and 2420.

A major in Economics leading to the B.B.A. degree requires that the student, at a minimum, complete

1. the business requirements (see page 162) in the college;
2. ECON 3210, 3510, 4440, and 4570;
3. at least 15 additional upper-division hours in economics.

This program incorporates a minor in Business Administration and requires 50 percent of the required major hours in residence at MTSU.

A concentration in Public Finance or Labor Relations may be developed by completing the economics requirements in #2 above and completing 15 additional upper-division hours in economics with 9 semester hours selected from appropriate courses in the economics listings.

### Recommended Program Economics—B.B.A. Degree

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
MATH 1630 (Math)	3	HUM 2610	3
COMM 2200 (Comm)	3	Humanities and/or	
Natural Sciences (2 prefixes)	8	Fine Arts (2 prefixes)	6
ECON 2410 (Soc/Beh Sci)	3	HIST 2010, 2020, or 2030	6
MATH 1810 or 1910	3	Social/Behavioral Sciences	3
Non-business elective	4	ACTG 2110, 2120	6
	<b>30</b>	ECON 2420	3
		Q M 2610	3
			<b>30</b>
JUNIOR		SENIOR	
Q M 3620 or ECON 4620	3	MKT 3820	3
BLAW 3400	3	MGMT 3620	3
MGMT 3610	3	ECON 4440	3
ECON 3210, 3510, 4570	9	ECON electives	9
BMOM 3510	3	ECON upper-division	
FIN 3010	3	electives	6
INFS 3100	3	Business elective	3
Elective	3	B AD 4980	3
	<b>30</b>		<b>30</b>

## Non-Business Economics Program

Students desiring a more flexible program than outlined above may elect to pursue a B.S. degree in Economics. Candidates for this degree are not required to complete the Jennings A. Jones College of Business requirements, but they must meet the specific B.S. degree requirements listed in this catalog (see page 57). Any student electing the B.S. alternative should consult directly with the department chair to develop an acceptable degree program. This degree is offered through the College of Liberal Arts and is not considered a degree in business administration. A maximum of 25 percent of courses for a B.S. degree in Economics can be taken in business courses. Students must complete at least one minor.



**Recommended Program  
Economics—B.S. Degree**

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
MATH 1630 (Math)	3	HUM 2610 (Hum/FA)	3
COMM 2200 (Comm)	3	Humanities and/or	
Natural Sciences (2 prefixes)	8	Fine Arts (2 prefixes)	6
Social/Behavioral Sciences	3	HIST 2010, 2020, or 2030	6
ECON 2410 (Soc/Beh Sci)	3	MATH 1810 or 1910	3
Non-business elective	4	ECON 2420	3
	<b>30</b>	Q M 2610	3
		Non-business elective	3
		Elective	3
			<b>30</b>

<b>JUNIOR</b>		<b>SENIOR</b>	
Q M 3620 or ECON 4620	3	ECON 4440	3
ECON 3210, 3510, 4570	9	ECON upper-division	
Electives	6	electives	6
Upper-division electives	9	ECON electives	9
Non-business elective	3	Upper-division electives*	12
	<b>30</b>		<b>30</b>

\*Student must complete 42 hours of upper-division courses.

**Minor in Economics**

A minor in Economics requires a minimum of 15 semester hours. The minor must include ECON 2410, 2420, and at least 9 hours of upper-division courses in economics. This includes 3 hours at MTSU.

**Minor in Industrial Relations**

A minor in Industrial Relations must include ECON 4420 and 4510 and MGMT 3810. The remaining 6 hours are to be selected from ECON 4490 or 4390 and MGMT 4660 or 4690. This includes 3 hours at MTSU.

**Minor in Economics/Finance**

A minor in the combined areas of economics and finance requires ECON 2410, 2420, 3210, and 9 additional hours, 6 of which must be upper-division hours in finance. This minor is not available to students majoring in the B.S. in Economics.

**Major in Finance**

A major in Finance leading to the B.B.A. degree requires that the student, at a minimum, complete

1. the business requirements (see page 162) in the college;
2. ECON 3210 and at least 21 additional hours in finance. Concentrations are available in Business Finance, Financial Institution Management, Insurance, or Real Estate. Students who choose the Business Finance concentration must include FIN 3810, 4010, 4110, 4810, 4860; 6 hours of finance electives; and 3 hours of economics/finance electives. Students selecting the concentration in Financial Institution Management must include FIN 3610, 3810, 4260, 4360, 4440, 4810, 4860, and 3 hours of economics/finance electives. Those pursuing the Insurance concentration must include FIN 3610, 4110, 4750; 3 hours of insurance electives; 3 hours of finance electives; and 3 hours of economics/finance electives.

This concentration also must include 6 hours from the following: FIN 3660, 3710, 4710, and 4730. FIN 3660 and 4710 lead toward the CLU examinations and FIN 3710 and 4730 lead toward the CPCU examinations. Students selecting the concentration in Real Estate must include FIN 2450, 3810, 4430, 4440, 4470 or 4710; 4550; 3 hours of finance electives; and 3 hours of economics/finance electives. The programs incorporate a minor in Business Administration and require 50 percent of major courses in residence at MTSU.

**Recommended Program**

**Finance: Business Finance Concentration—B.B.A. Degree**

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
MATH 1630 (Math)	3	HUM 2610 (Hum/FA)	3
COMM 2200 (Comm)	3	Humanities and/or	
Natural Sciences (2 prefixes)	8	Fine Arts (2 prefixes)	6
ECON 2410 (Soc/Beh Sci)	3	HIST 2010, 2020, or 2030	6
MATH 1810 or 1910	3	Social/Behavioral Sciences	3
Non-business elective	4	ACTG 2110, 2120	6
	<b>30</b>	ECON 2420	3
		Q M 2610	3
			<b>30</b>

<b>JUNIOR</b>		<b>SENIOR</b>	
Q M 3620	3	MGMT 3620	3
BLAW 3400	3	MKT 3820	3
ECON 3210	3	FIN 4010, 4110, 4810,	
INFS 3100	3	4860	12
BMOM 3510	3	FIN electives	6
MGMT 3610	3	ECON/FIN elective	3
FIN 3010, 3810	6	B AD 4980	3
ACTG 3020	3		<b>30</b>
Elective	3		
	<b>30</b>		

**Recommended Program**

**Finance: Financial Institution Management Concentration—**

**B.B.A. Degree**

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
MATH 1630 (Math)	3	HUM 2610 (Hum/FA)	3
COMM 2200 (Comm)	3	Humanities and/or	
Natural Sciences (2 prefixes)	8	Fine Arts (2 prefixes)	6
ECON 2410 (Soc/Beh Sci)	3	HIST 2010, 2020, or 2030	6
MATH 1810 or 1910	3	Social/Behavioral Sciences	3
Non-business elective	4	ACTG 2110, 2120	6
	<b>30</b>	ECON 2420	3
		Q M 2610	3
			<b>30</b>

<b>JUNIOR</b>		<b>SENIOR</b>	
Q M 3620	3	MGMT 3620	3
BLAW 3400	3	MKT 3820	3
ECON 3210	3	ACTG 3020	3
INFS 3100	3	FIN 4260, 4360, 4440,	
BMOM 3510	3	4810, 4860	15
MGMT 3610	3	ECON/FIN elective	3
FIN 3010, 3610, 3810	9	B AD 4980	3
Elective	3		<b>30</b>
	<b>30</b>		

**Recommended Program****Finance: Insurance Concentration—B.B.A. Degree**

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
MATH 1630 (Math)	3	HUM 2610 (Hum/FA)	3
COMM 2200 (Comm)	3	Humanities and/or	
Natural Sciences (2 prefixes)	8	Fine Arts (2 prefixes)	6
ECON 2410 (Soc/Beh Sci)	3	HIST 2010, 2020, or 2030	6
MATH 1810 or 1910	3	Social/Behavioral Sciences	3
Non-business elective	4	ACTG 2110, 2120	6
	<b>30</b>	ECON 2420	3
		Q M 2610	3
			<b>30</b>

**JUNIOR**

Q M 3620	3	<b>SENIOR</b>	
BLAW 3400	3	MGMT 3620	3
ECON 3210	3	FIN 4110, 4750	6
INFS 3100	3	FIN 3660, 3710, 4710,	
BMOM 3510	3	or 4730	6
MGMT 3610	3	FIN elective	3
FIN 3010, 3610	6	FIN Insurance elective	3
MKT 3820	3	ECON/FIN elective	3
Elective	3	Business elective	3
	<b>30</b>	B AD 4980	3
			<b>30</b>

\*Students pursuing the CLU should take FIN 3660 and 4710 and students pursuing the CPCU should take FIN 3710 and 4730.

**Recommended Program****Finance: Real Estate Concentration—B.B.A. Degree**

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
MATH 1630 (Math)	3	HUM 2610 (Hum/FA)	3
COMM 2200 (Comm)	3	Humanities and/or	
Natural Sciences (2 prefixes)	8	Fine Arts (2 prefixes)	6
ECON 2410 (Soc/Beh Sci)	3	HIST 2010, 2020, or 2030	6
MATH 1810 or 1910	3	Social/Behavioral Sciences	3
Non-business elective	4	ACTG 2110, 2120	6
	<b>30</b>	ECON 2420	3
		Q M 2610	3
			<b>30</b>

**JUNIOR**

Q M 3620	3	<b>SENIOR</b>	
BLAW 3400	3	MKT 3820	3
ECON 3210	3	FIN 4710 or 4470, 4440	6
INFS 3100	3	FIN 3810, 4430, 4550	9
MGMT 3610, 3620	6	ECON 4500	3
BMOM 3510	3	FIN elective	3
FIN 2450, 3010	6	ECON/FIN elective	3
Elective	3	B AD 4980	3
	<b>30</b>		<b>30</b>

**Minor in Finance**

A minor in Finance consists of a minimum of 15 semester hours with at least 12 upper-division hours in finance. This includes 3 hours at MTSU.

**Minor in Real Estate**

A minor in Real Estate consists of FIN 2450, FIN 3000 or 3010, BLAW 4470, and 6 hours of coursework in real estate approved in advance by the minor advisor. This includes 3 hours at MTSU.

**Minor in Insurance**

A minor in Insurance consists of FIN 3610 and 12 hours of coursework in insurance approved in advance by the minor advisor. This includes 3 hours at MTSU.

**Minor in Real Estate/Insurance**

A composite minor in Real Estate/Insurance consists of FIN 2450, 3610; MKT 3820; BLAW 4470; 3 hours of coursework in insurance; and 3 hours of coursework in real estate approved in advance by the minor advisor. This includes 3 hours at MTSU.

**Courses in Economics [ECON]****General [ECON]**

**2410 Principles of Economics, Macroeconomics.** Three credits. As an aid to understanding modern economic society: economic concepts of national income and its fluctuations, inflation, unemployment, role of the banking system, monetary and fiscal policies, and international topics.

**2420 Principles of Economics, Microeconomics.** Three credits. As an aid to understanding modern economic society: economic concepts of consumer and firm behavior; the pricing of goods, services, and productive factors; international topics; and an overview of the American economy.

**3210 The Financial System and the Economy.** Three credits. Prerequisites: ECON 2410; junior standing. Basic introduction to the functions of financial institutions and markets in the conduct of domestic and international economic transactions. Within financial market context, focus on special role that money plays as an asset and a determinant of the price level, the cause of inflation and inflation's effects on interest rates and borrowing costs, and the influence of Federal Reserve actions (monetary policy) on money and interest rates.

**3510 Macroeconomic Theory and Policy.** Three credits. Prerequisites: ECON 2410; junior standing. Analysis of national income, employment, and price levels. Monetary and fiscal policies; international economic relations.

**3540 Japanese Economy and Business.** Three credits. Prerequisites: ECON 2410; junior standing. The Japanese economy and its social, physical, and trade environment in comparison with those in other countries, particularly the United States. May be used for credit toward the Global Studies minor.

**3910 Computer Applications in Economics and Finance.** Three credits. (Same as FIN 3910.) Prerequisites: INFS 3100; ECON 2420; FIN 3010 or 3000. Employing a computer in economic and financial decision making. Covers spreadsheets, object-relational database management systems, and data warehousing.

**3970, 3980 Cooperative Education.** Three credits. (Same as FIN 3970 and 3980.) Prerequisite: Junior standing. Cooperative Education experiences provide students with opportunities for on-the-job training in conjunction with on-campus academics. These courses do not satisfy major or minor requirements. Interested students should contact the MTSU Cooperative Education Office. Students will be selected for participation, and opportunities may be limited.

- 4260 Financial Markets and Institutions.** Three credits. (Same as FIN 4260.) Prerequisites: ECON 3210; FIN 3010 or 3000. Examines the structure and functioning of our monetary-financial system. Emphasis on the institutional process of financial intermediation in the financial marketplace and the role that specific institutions and instruments play.
- 4440 International Economics.** Three credits. Prerequisites: ECON 2410, 2420; junior standing. Differences between domestic trade and international trade, foundations of international trade, economic effects of free trade and restricted trade; mechanisms of international payments and structure of balance of payments; history and contemporary issues of trade policies and world monetary systems.
- 4470 Economic Development of the Third World.** Three credits. Prerequisites: ECON 2410, 2420; junior standing. Conditions and problems of the less-developed countries; causes, processes, and consequences of economic development; introduction to basic growth models, development theories, and strategies for development. Economic as well as noneconomic factors studied.
- 4570 Managerial Economics.** Three credits. Prerequisites: ECON 2420; MATH 1630 or 1810 or 1910; junior standing. Familiarity with time value of money, spreadsheet, and regression analysis helpful. Microeconomic theories in depth; emphasizes practical applications in economic decisions. Topics cover fundamental economic concepts, theory of demand, theory of production, theory of cost, optimization, forecasting, game strategy in oligopolistic rivalry, long-term investment, and regression analysis.
- 4620 Econometrics and Forecasting.** Three credits. Prerequisites: ECON 2410, 2420; MATH 1810 or 1910; junior standing. The application of statistical methods to economic problems; covers statistical inference, regression analysis in economics and finance, and an introduction to econometrics. Emphasis on applications to actual economic data and includes use of econometric software.
- 4650 Comparative Economic Systems.** Three credits. Prerequisite: ECON 2410. Compares economic institutions and performance among nations; presents the historical and cultural context of economic evolution in selected nations; and examines the relationship between institutional arrangements and outcomes such as prosperity, liberty, and equality.
- 4660 History of Economic Thought.** Three credits. Prerequisites: ECON 2410, 2420; junior standing. Background of modern economic thought; ancient economic thought; the main current of developing economic analysis through feudalism, mercantilism, and the physiocrats; Adam Smith and the classical economists; rebels and the neoclassical economists; twentieth century contributions.
- 4890 Internship in Economics.** One to three credits. Prerequisites: Junior standing and recommendation of advisor. Supervised work experience in cooperating business firms or governmental agencies together with specialized academic study relating to the work experience.
- 4920 Business Decisions Using an Intelligence System.** Three credits. Prerequisite: INFS 3100, ECON/FIN 3910, or consult the instructor. Logic, techniques, and practical implementation of a business intelligence system. Focuses on incorporating the con-

cept of economic value added into data modeling. Process of building a system using Microsoft Office, Cognos Impromptu, and Cognos PowerPlay.

- 4990 Problems in Economics.** One to three credits. Prerequisite: Junior standing. Problems for intensive study are chosen in joint consultation between student and instructor.

### Labor Relations [ECON]

- 4390 Employee Benefits.** Three credits. (Same as FIN 4390.) Prerequisite: Junior standing. Includes descriptive review and taxation, legislative, and administrative dimensions of the major components of employee benefit plans such as retirement systems, deferred compensation plans, health insurance, death benefits, disability benefits, paid and unpaid time off. Technical analysis and problem solving emphasized to develop applied skills. Social insurance and international benefits integrated.
- 4420 Labor and Human Resource Economics.** Three credits. Prerequisites: ECON 2410 or 2420; junior standing. Current issues and theories, returns to training and education (human capital), earnings differences; union impacts and government regulation of labor relations and labor markets; human resource information system modeling, including applied PC or main-frame data analysis and integration of Internet information sources.
- 4490 Industrial Relations Legislation.** Three credits. (Same as BLAW 4490 and MGMT 4490.) Prerequisite: Junior standing. Effects of government regulation on labor relations. Examination of the National Labor Relations Act as amended by the Labor Management Relations Act; the Labor Management Reporting and Disclosure Act; public sector regulation; legal issues emerging from workforce diversity.
- 4510 Unions and Collective Bargaining.** Three credits. (Same as MGMT 4510.) Prerequisite: Junior standing. The collective bargaining process: its evolution in the public and private sectors and its contemporary legal environment; compensation, institutional and administrative issues; strikes and impasse resolution procedures.

### Public Finance [ECON]

- 3430 Public Finance.** Three credits. (Same as FIN 3430.) Prerequisites: ECON 2410, 2420; junior standing. Economic foundations of federal tax and expenditure policies. Current issues in federal budget policy. Policy applications illustrating key concepts such as public goods, externalities, income distribution, tax incidence, tax equity, and allocative efficiency. Intergovernmental fiscal relations.
- 4310 Problems in Government Finance.** Three credits. (Same as FIN 4310). Prerequisites: ECON 2410, 2420. Current issues in taxation, theory of income taxation, consumption taxes, property and wealth taxes. Advanced treatment of tax incidence, tax efficiency, income distribution, fiscal federalism, and state and local budget issues.
- 4400 Business and Government.** Three credits. Prerequisites: ECON 2420; junior standing. The economics of public policy toward private business in the U.S. Many dimensions including economic theory, history, philosophical foundations of government, economic statistics, as well as applications of those disciplines to a wide variety of policy issues.

**4500 Urban and Regional Economics.** Three credits. Prerequisites: ECON 2410, 2420. Economic problems of urban communities, including problems resulting from population shifts to suburbia; urban planning; land utilization; revenue structures; urban renewal; transportation; problems of minority and poverty groups.

## Courses in Finance [FIN]

### Business Finance [FIN]

**3000 Principles of Financial Management.** Three credits. Prerequisite: ACTG 2110 or 3000. Will not substitute for FIN 3010. An overview of the fundamental concepts and tools for financial decision making within a business firm. (Not open to business majors.)

**3010 Business Finance.** Three credits. Prerequisites: ACTG 2120 or 3000; Q M 2610; junior standing. Theory of corporate finance, emphasizing wealth creation, valuation, risk, capital budgeting, and cost of capital.

**3430 Public Finance.** Three credits. (Same as ECON 3430.) Prerequisites: ECON 2410, 2420; junior standing. Economic foundations of federal tax and expenditure policies. Current issues in federal budget policy. Policy applications illustrating key concepts such as public goods, externalities, income distribution, tax incidence, tax equity, and allocative efficiency. Intergovernmental fiscal relations.

**3810 Investments.** Three credits. Prerequisite: FIN 3010. Introductory survey course focusing on investment markets and instruments. Emphasis on security characteristics, analysis, and valuation.

**4010 Intermediate Financial Management.** Three credits. Prerequisites: FIN 3010 with a minimum grade of C (2.00); MATH 1810 or 1910; Q M 3620. Reviews and extends the basics of risk, valuation, and the creation of wealth. Explores capital budgeting, capital structure, and their interactions.

**4110 Managerial Finance.** Three credits. Prerequisite: FIN 3010. A case course emphasizing the financial aspects of management. Topics include financial statement analysis, working capital management, capital budgeting, and cost of capital.

**4390 Employee Benefits.** Three credits. (Same as ECON 4390.) Prerequisite: Junior standing. Includes descriptive review and taxation, legislative, and administrative dimensions of the major components of employee benefit plans such as retirement systems, deferred compensation plans, health insurance, death benefits, disability benefits, paid and unpaid time off. Technical analysis and problem solving emphasized to develop applied skills. Social insurance and international benefits integrated.

**4810 Portfolio Theory and Management.** Three credits. Prerequisites: FIN 3810; MATH 1810 or 1910; Q M 3620. Rigorous development of investment theory from its origins to current extensions and alternatives. Emphasis on investor rationality, efficient portfolio selection, capital asset pricing and options valuation models, and market efficiency.

**4860 International Financial Management.** Three credits. Prerequisite: FIN 3010 with a minimum grade of C (2.00). International capital markets, exchange rate exposure, risk management, and other multinational finance issues. Essential not only for United States exporters, but also for those facing competition from abroad.

### Financial Institution Management [FIN]

**4260 Financial Markets and Institutions.** Three credits. (Same as ECON 4260.) Prerequisites: ECON 3210; FIN 3010 or 3000. Develops an understanding of the structure and functioning of our monetary-financial system. Emphasis on the institutional process of financial intermediation in the financial marketplace and the role that specific institutions and instruments play.

**4360 Management of Financial Institutions.** Three credits. Prerequisite: Junior standing. Development of fundamental concepts and principles of sound institution management. Includes the financial environment, strategy, performance measures, asset/liability management topics, within an overall decision framework.

### Real Estate [FIN]

**2450 Principles of Real Estate.** Three credits. Real estate practices and procedures, basic principles of real property ownership utilization and transfer, mortgage financing, brokerage, management, valuation, subdividing, and legislation.

**4430 Real Property Valuation.** Three credits. Prerequisites: FIN 2450; junior standing; FIN 3010 strongly recommended. Theory and methods of real property valuation. Employs qualitative and quantitative analysis to appraise residential and income-producing properties. Emphasizes comparable sales, cost-depreciation, and income capitalization.

**4440 Real Estate Finance.** Three credits. Prerequisites: FIN 2450; junior standing; FIN 3010 strongly recommended. Financial analysis applied to various types of real property. Includes underwriting, sources of funds, portfolio problems, and government programs. Emphasizes analysis of money and mortgage markets and modern creative financing.

**4470 Real Estate Law.** Three credits. (Same as BLAW 4470.) Prerequisite: Junior standing. Legal rights and limitations of ownership of property, estates, titles, methods of transferring titles, abstract of titles, mortgages, leases, easements, restrictions on the use of property, real estate development, and planning, application of contract law to real property, and the administration of wills.

**4510 Real Estate Brokerage and Management.** Three credits. Prerequisites: FIN 2450; junior standing. Management principles and techniques for the successful real estate brokerage firm. Topics emphasized are organizing, planning, management, marketing, and advertising techniques.

**4550 Real Estate Investment Analysis.** Three credits. Prerequisites: FIN 2450, 3010; junior standing. Analysis of real estate projects and markets. Emphasizes market research, taxes, financing techniques, and discounted cash flow analysis. Requires computer-assisted investment tools and case analysis.

**4590 Problems in Real Estate.** One to three credits. Prerequisite: Junior standing. Current analysis of issues in the field of real estate with concentration on major problems and policies in managing real estate and other related resources.

### Insurance [FIN]

**3610 General Insurance.** Three credits. Prerequisite: Junior standing. The principles of risk and risk bearing; insurance carriers; survey of principles of life, health and accident, fire, marine, and automobile insurance policies; government regulation of insurance.



- 3660 Life Insurance and Health Insurance.** Three credits. Prerequisite: Junior standing. Problems of purchaser and seller; critical investigation of life and health insurance with emphasis on social and economic aspects.
- 3710 Property and Casualty Insurance.** Three credits. Prerequisite: Junior standing. Scope and fundamentals of property and liability insurance; analysis of contracts, rating, underwriting, insurers, and loss of adjustment requirements and procedures.
- 4710 Insurance in Estate Planning.** Three credits. Prerequisite: FIN 3610. Insurance as it may relate to estate planning examined in detail. Focus on estate planning principles including the problems of estate liquidity, taxation, governmental regulation, and costs involved in handling estates. Also included are ownership provisions and beneficiary designations, settlement options, and trusts.
- 4730 Insurance Company Operations.** Three credits. Prerequisite: FIN 3610. Insurance marketing, underwriting, reinsurance, rate making, claims adjusting, loss control activities, and other functions and activities.
- 4750 Risk Management.** Three credits. Prerequisite: FIN 3610. Analysis of major sources of liability loss exposures and the insurance coverages designed to meet those exposures. Noninsurance techniques such as loss control and risk transfer also discussed.
- 4790 Problems in Insurance.** Three credits. Prerequisite: FIN 3610. Application of various insurance coverages to fulfillment of personal, business, and social needs. Special problems chosen or assigned in areas of the student's interest in joint consultation between student and instructor.

### General [FIN]

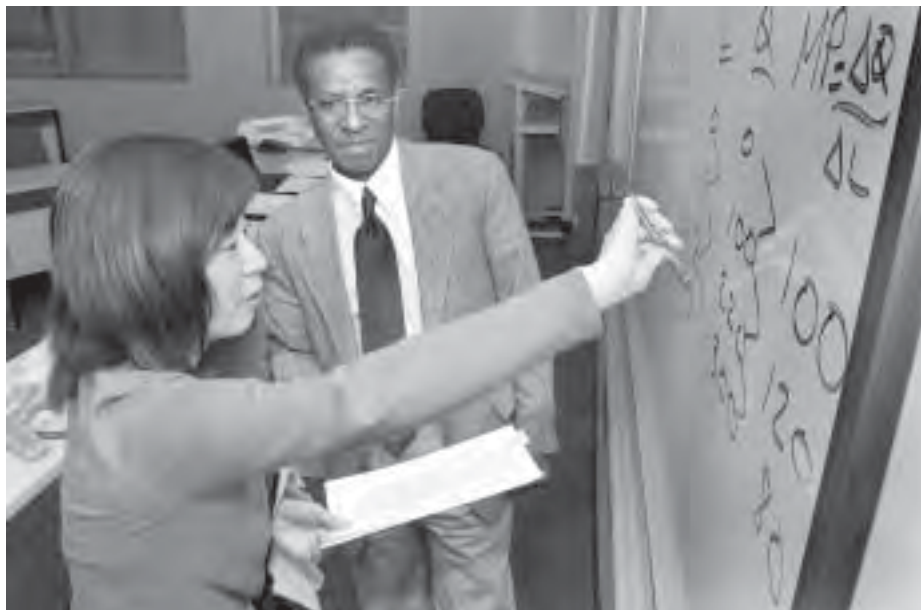
- 2010 Personal Financial Planning.** Three credits. Includes budgeting and saving techniques, tax planning, insurance principles, consumer credit, housing, investment alternatives, and retirement and estate issues.
- 3910 Computer Applications in Economics and Finance.** Three credits. (Same as ECON 3910.) Prerequisites: INFS 3100; ECON 2420; FIN 3010 or 3000. Employing a computer in economics

and financial decision making. Covers spreadsheets, object-relational database management systems, and data warehousing.

- 3970, 3980 Cooperative Education.** Three credits. (Same as ECON 3970 and 3980.) Prerequisite: Junior standing. Cooperative Education experiences provide students with opportunities for on-the-job training in conjunction with on-campus academics. These courses will not satisfy major or minor requirements. Interested students should contact the MTSU Cooperative Education Office. Students will be selected for participation and opportunities may be limited.
- 4310 Problems in Government Finance.** Three credits. (Same as ECON 4310). Prerequisites: ECON 2410, 2420. Current issues in taxation, theory of income taxation, consumption taxes, property and wealth taxes. Advanced treatment of tax incidence, tax efficiency, income distribution, fiscal federalism, and state and local budget issues.
- 4890 Internship in Finance.** One to three credits. Prerequisites: Junior status and recommendation of advisor. Supervised work experience in cooperating business firms or government agencies together with specialized academic study relating to the work experience.
- 4910 Options, Futures, and Other Derivatives.** Three credits. Prerequisite: FIN 3010 or equivalent. Valuation and hedging of options, forward contracts, futures contracts, swaps, and other derivatives. Examines fundamental tools commonly used for pricing and hedging and options and futures contracts. For undergraduate and graduate students with little mathematics beyond algebra.
- 4990 Problems in Finance.** One to three credits. Prerequisite: Junior standing. Problems for intensive study are chosen in joint consultation between student and instructor.

### Graduate Study

The Master of Arts and a doctoral degree are offered in Economics. Degree requirements and a list of the courses offered for graduate credit may be found in the Graduate Catalog.



# Department of Management and Marketing

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**Jill Austin, Chair**  
**Business and Aerospace Building N121D**

**Bullington, Festervand, Foote, Gilbert, Graeff, Harmon, Howard, Jones, Kemp, Kempf, Kethley, Moser, Mpoyi, Mullane, Phillips, Roy, Singer, Sokoya, Tang, E. Thomas, J. Thomas, Tillery, Tran, Ward, Warren, Wilson, Yue**

The mission of the Department of Management and Marketing is to offer students learning experiences that are based on excellence in teaching. The department provides the educational foundation for both students' success in management, marketing, and business administration careers and for their further study in these fields. Learning opportunities are provided through a variety of teaching methods, using technology where appropriate to enhance students' learning. To further support teaching, the department encourages faculty to achieve excellence in research and scholarly activities. The department is also committed to serving students through advising and through developing relationships in the business community.

Students may choose from four majors: Management, Marketing, Business Administration, and Entrepreneurship. These programs of study offered within this department lead to a Bachelor of Business Administration degree. The majors provide the skills necessary for a wide range of business careers in management, marketing, and general administration and also provide the basic undergraduate preparation necessary for admission to and satisfactory performance in graduate study in business.

The major in Management offers preparation for specialized careers in human resources management, production/operations management, and general administrative careers in business, government, industry, and non-profit organizations. Management electives are listed in the introductory paragraph of the Major in Management section. Typical career titles in human resources management include training/development manager, human resources recruiter, employee relations specialist, industrial/labor relations specialist, employee selection manager, employee benefits administrator, and compensation specialist. Typical career titles in production/operations management include production scheduler, quality control analyst, capacity planning analyst, operations

systems analyst, inventory control specialist, materials manager, logistics manager, and quality assurance manager.

The major in Marketing prepares students for assuming all marketing responsibilities in the small organization and specialized marketing activities in the larger organization. Typical career titles in marketing include the following: retail manager, retail buyer, sales/marketing representative, sales manager, market research analyst, promotions strategist, logistics coordinator, and advertising account manager. The major in Marketing offers preparation for specialized careers in sales, retailing, promotion, and business-to-business marketing. Students interested in these areas are encouraged to choose their marketing electives from the list provided in the major program requirements section.

The major in Business Administration offers preparation for general business careers for students who do not wish to choose a specific area of study in business.

The major in Entrepreneurship offers students preparation for successful venture creation and implementation and provides opportunities for them to acquire the necessary operational knowledge to start a new enterprise and to study business communication, marketing, finance, management, economics, accounting, and information systems from an entrepreneurial perspective. The curriculum is flexible—students may tailor the program to fit specific needs while acquiring the business background necessary for pursuing entrepreneurial goals. Successful business professionals contribute to the program and an advisory board of recognized entrepreneurial leaders will mentor students. Specialized courses, an internship, and interaction with acknowledged business leaders will provide the impetus to start and operate a successful business.

Minor programs of study within the department include Management, Marketing, Business Administration, and Entrepreneurship. A course may not be used to satisfy both major and minor requirements.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

## Major in Business Administration

A major in Business Administration consists of 24 semester hours (50 percent taken at MTSU) selected from the following:

- I. Financial Analysis (3 hours)**  
ACTG 3020, 3110, or 3310 (3)
- II. Management (6 hours)**  
MGMT 3630, 3810, or 4680 (3)  
MGMT 3640, 3710, 3730, 3750, 3770, 4610, or 4700 (3)

**III. Marketing (6 hours)**

Any 6 hours of upper-division Marketing electives except 3970/3980, 4990, OR 4950

**IV. Business Environment (9 hours)**

BLAW 3430, 3450, 3460, 3480, 4490, or 4500 (3)  
MGMT OR MKT 4710 or ECON 4440 (3)  
MKT 3930 OR MGMT 3890

**Recommended Program****Business Administration—B.B.A. Degree**

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
MATH 1630 (Math)	3	HUM 2610 (Hum/FA)	3
COMM 2200 (Comm)	3	Humanities and/or	
Natural Sciences (2 prefixes)	8	Fine Arts (2 prefixes)	6
ECON 2410 (Soc/Beh Sci)	3	HIST 2010, 2020, or 2030	6
ECON 2420	3	Social/Behavioral Sciences	3
Non-business elective	4	ACTG 2110, 2120	6
	<b>30</b>	Q M 2610	3
		Elective	3
			<b>30</b>

**JUNIOR**

Q M 3620	3	<b>SENIOR</b>	
INFS 3100	3	MGMT 3640, 3710, 3730,	
MGMT 3610, 3620	6	3750, 3770, 4610, or	
MKT 3820	3	4700	3
BMOM 3510	3	MGMT 3630, 3810, or 4680	3
FIN 3010	3	MKT 3930 or MGMT 3890	3
BLAW 3400	3	BLAW 3430, 3460, 4450,	
ECON 3210	3	4490, or 4500	3
ACTG 3020, 3110, or 3310	3	FIN 3810 or 4110	3
	<b>30</b>	MGMT/MKT 4710 or	
		ECON 4440	3
		ECON 4570	3
		MKT upper-division electives	6
		B AD 4980	3
			<b>30</b>

*NOTE: This program includes a combined Economics/Finance minor.*

**Minor in Business Administration**

A minor in Business Administration consists of INFS 2200 or 3100, ACTG 3000 (or 2110 and 2120), FIN 3000 or 3010, BLAW 3400 or 3430, MGMT 3610, and MKT 3820. A 2.00 GPA is required.

**Major in Entrepreneurship**

A major in Entrepreneurship consists of 30 hours, 50 percent of which must be in residence at MTSU, and includes a Business Administration minor. Course requirements for the major are listed on page 169.

**Minor in Entrepreneurship**

A minor in Entrepreneurship consists of the following 18 hours: BMOM 1400, 2900; ACTG 3000 or FIN 3000; MGMT 3610, 4920; and MKT 3820.

**Major in Management**

A major in Management consists of 24 hours of management courses. All Management majors must have 50 percent of the required management courses in residence at Middle

Tennessee State University. Students interested in careers in human resources management are encouraged to choose their management electives from the following list: MGMT 4490, 4500, 4510, 4620, 4640, 4650, 4660, 4690, 4830, 4950, 4990. Students interested in careers in production/operations management are encouraged to choose their management electives from the following list: MGMT 3710, 3730, 3750, 3770, 4610, 4700, 4950, 4990.

**Recommended Program****Management—B.B.A. Degree**

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
MATH 1630 (Math)	3	HUM 2610 (Hum/FA)	3
COMM 2200 (Comm)	3	Humanities and/or	
Natural Sciences (2 prefixes)	8	Fine Arts (2 prefixes)	6
ECON 2410 (Soc/Beh Sci)	3	HIST 2010, 2020, or 2030	6
ECON 2420	3	Social/Behavioral Sciences	3
Non-business elective	4	ACTG 2110, 2120	6
	<b>30</b>	Elective	3
		Q M 2610	3
			<b>30</b>

**JUNIOR**

Q M 3620	3	<b>SENIOR</b>	
INFS 3100	3	BMOM 3510	3
MGMT 3610, 3620, 3810	9	MGMT 3640, 4710	6
MKT 3820	3	MGMT upper-division	
ECON 3210	3	electives	12
BLAW 3400	3	ACTG 3020 or FIN 4110	3
FIN 3010	3	Elective	3
MGMT upper-division		B AD 4980	3
elective	3		<b>30</b>
	<b>30</b>		

*NOTE: This program includes a minor in Business Administration.*

**Minor in Management**

A minor in Management consists of MGMT 3610 and 3620 and 9 hours of coursework in management approved by the department coordinator. Transfer students minoring in Management are required to complete a minimum of 6 hours of coursework in management at Middle Tennessee State University. A 2.00 GPA is required. It should be noted that Q M 2610 is a prerequisite for MGMT 3620. Electives must be upper-division courses.

**Major in Marketing**

A major in Marketing consists of 27 hours of marketing courses. All Marketing majors must have 50 percent of the required hours of marketing courses in residence at Middle Tennessee State University. Students interested in careers in sales are encouraged to choose their marketing electives from the following list: MKT 3840, 3855, 4800, 4850, 3850, 3950, 4950. Students interested in careers in retailing are encouraged to choose their marketing electives from the following list: MKT 3830, 3880, 3900, 3920, 3960, 4860, 4950. Students interested in careers in promotion are encouraged to choose their marketing electives from the following list: MKT 3840, 3850, 3855, 3865, 3900, 3920, 4170, 4950. Students interested in careers in business-to-business marketing are encouraged to choose their marketing electives from the fol-

lowing list: MKT 3840, 3860, 3870, 3950, 3960, 4810, and 4950.

### Recommended Program Marketing–B.B.A. Degree

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
MATH 1630 (Math)	3	HUM 2610 (Hum/FA)	3
COMM 2200 (Comm)	3	Humanities and/or	
Natural Sciences (2 prefixes)	8	Fine Arts (2 prefixes)	6
ECON 2410 (Soc/Beh Sci)	3	HIST 2010, 2020, or 2030	6
ECON 2420	3	Social/Behavioral Sciences	3
Non-business elective	4	ACTG 2110, 2120	6
	<b>30</b>	Elective	3
		Q M 2610	3
			<b>30</b>
JUNIOR		SENIOR	
Q M 3620	3	ECON 3210	3
INFS 3100	3	MKT 3930, 4710, 4890	9
MGMT 3610, 3620	6	MKT upper-division	
BLAW 3400	3	electives	12
BMOM 3510	3	Elective	3
FIN 3010	3	B AD 4980	3
MKT 3820, 3910	6		<b>30</b>
MKT upper-division			
elective	3		
	<b>30</b>		

NOTE: This program includes a minor in Business Administration.

### Minor in Marketing

A minor in Marketing consists of MKT 3820 and 12 hours of marketing electives. A 2.00 GPA is required. Transfer students minoring in Marketing must complete a minimum of 9 of the 15 hours of coursework in marketing at Middle Tennessee State University. Electives must be upper-division courses.

### Course in Business Administration [B AD]

**4980 Business Policy.** Three credits. Prerequisites: Must be taken after completion of the business requirements (see introductory section of the Jennings A. Jones College of Business) and in the semester in which the student graduates. Development of top management perspective with emphasis on policy and strategy formulation and evaluation through the demonstration of competence in handling multifunctional business problems. Transfer credit not allowed; must be taken in residence.

### Courses in Management [MGMT]

#### General Management [MGMT]

**3610 Principles of Management.** Three credits. Prerequisite: Junior standing. Concepts of the management functions of planning, organizing, and controlling with an emphasis on behavioral science concepts as applied to managing people in organizations.

**3630 Organization Theory.** Three credits. Prerequisite: MGMT 3610. The organization as a system. Emphasis on the external environment, performance measurement, structure (including contingency theory of organization design), bureaucracy, and the impact of behavioral aspects on organization theory.

**3650 New Venture Creation.** Three credits. Prerequisites: BMOM 2900 or MGMT 3610; junior standing. An examination of the process of new venture formation. Topics include recognizing and testing opportunity, developing the business concept, analyzing risks, and financing the new venture.

**3890 Managerial Decision Making.** Three credits. Prerequisite: MGMT 3610. Investigates the decision-making processes of business professionals to gain an understanding of how decisions are made. Emphasis on creative problem solving, critical thinking, problem formulation, and decision analysis.

**3940 Business Ethics.** Three credits. Prerequisite: Junior standing. The impact of individual values and ethics on business operations, including management of the organization and marketing of goods and services. Topics include legal and ethical aspects of dealing with the environment, consumers, employees, and the general community.

**3970, 3980 Cooperative Education.** One to three credits. Prerequisite: Junior standing. Provides students with the opportunities for full-time on-the-job training in conjunction with on-campus academic experiences. Students will participate in professional growth seminars. Requirements of the department and MTSU Cooperative Education Office must be completed to receive credit. These courses (1) may not be used to satisfy the major or the minor requirements and (2) may not be taken concurrently with B AD 4980.

**4680 Organization Behavior.** Three credits. Prerequisite: MGMT 3610. Human behavior in organizations. Emphasis on motivation, leadership, communication, group processes, and methods for managing change. Understanding human behavior allows student to learn better employee utilization strategies resulting in a more effective and efficient organization.

**4710 International Business.** Three credits. (Same as MKT 4710.) Prerequisites: MGMT 3610 and MKT 3820. International organizational structures and managerial processes. Cultural, political, economic, and legal environments of global marketing. World market patterns and international trade theory.

**4730 Global Comparative Management.** Three credits. Prerequisite: MGMT 3610. Cross-cultural dimensions of management theories and the applicability of these theories in a multicultural and multinational environment. Topics include cross-cultural communications, motivation, leadership, and decision making. The role of MNCs in economic development and their relationship with host countries also examined.

**4820 Management Research.** Three credits. Prerequisites: Q M 2610 and MGMT 3610. Scientific concepts, methodology, and procedures in designing and conducting research for management decision making.

**4920 Small Business Management.** Three credits. Prerequisite: MGMT 3610. Analysis of problems and considerations involved in planning, organizing, and operating small businesses and entrepreneurial ventures. Emphasis on environmental issues, growth strategies, process management activities, and human resource management.

**4950 Management Internship.** Three credits. Prerequisites: Management major with senior standing and an overall grade point average of at least 2.50. Student is affiliated with an organization on a part-time basis to develop knowledge and experience in the practical application of management theory to actual business problems in a non-classroom situation. Can be applied toward the student's degree requirements only upon approval of



the Management and Marketing Department chair. This course can only be taken one time.

**4990 Independent Study.** One to three credits. Prerequisites: Senior standing and approval of department chair. Individual research and analysis of contemporary problems and issues in a concentrated area of study under the guidance of an approved faculty member. This course can only be taken one time.

### Human Resources Management [MGMT]

**3810 Human Resources Management.** Three credits. Prerequisite: Junior standing. The organization, functions, and administration of a human resources management department, including selection, training, placement, promotion, appraisal, pay incentives, and laws affecting the human resource function.

**4490 Industrial Relations Legislation.** Three credits. (Same as BLAW 4490 and ECON 4490.) Prerequisite: Junior standing. Economic background and effects of government regulation of labor relations; emphasis on a detailed examination of the National Labor Relations Act as amended or expanded by the Labor Management Relations Act, the Labor Management Reporting and Disclosures Act, and Title 7 of the Civil Rights Act.

**4500 Employment Discrimination Law.** Three credits. (Same as BLAW 4500.) Prerequisite: Junior standing. A detailed examination of the legal rights and responsibilities of employers and employees with respect to fair employment practices; emphasis on significant statutes, administrative regulations, and judicial decisions forming the body of antidiscrimination law.

**4510 Unions and Collective Bargaining.** Three credits. (Same as ECON 4510.) Prerequisite: Junior standing. The decision-making processes in the industrial relations system and their impact upon the American economy. Particular emphasis on collective bargaining, contract administration, and impasse procedures both in the public and private sectors.

**4620 (462) International Human Resource Management.** Three credits. Prerequisite: MGMT 3810. International human resource functions including compensation, labor relations, training, selection, and performance appraisal; impact of culture on IHRM activities.

**4640 Human Resources Planning and Staffing.** Three credits. Prerequisites: MGMT 3610 and 3810. Basic concepts, principles, and practices involved in the acquisition of human resources: identifying employment needs, forecasting human resource requirements, recruiting employees internally and externally, and selecting qualified candidates and matching them with appropriate jobs.

**4650 Human Resource Development.** Three credits. Prerequisites: MGMT 3610 and 3810. The role of human resource development in organizations including needs analysis; design, development, and implementation of programs in training and development; career development; management development; and executive development.

**4660 Compensation Systems.** Three credits. Prerequisites: MGMT 3610 and 3810. Formal organization compensation systems. Emphasis on the design, implementation, and administration of compensation systems utilizing wage theory, applicable analytical tools, research results from the behavioral sciences, and evaluations of actual practices currently utilized in the private and public sectors.

**4690 Problems in Human Resources Management.** Three credits. Prerequisites: MGMT 3610 and 3810. Contemporary problems and issues in personnel and industrial relations in industry, using research findings as a basis for more constructive action in government-labor-industry relations.

**4830 Performance Appraisal.** Three credits. Prerequisites: MGMT 3610 and 3810. Theoretical and practical issues related to HRM performance appraisal in organizations. Emphasis on job analysis, measurement of performance, judgmental measures of performance, rating biases, cognitive components in rating, feedback process, performance appraisal training, perceived fairness and accuracy, and legal issues.

### Operations Management [MGMT]

**3010 Management of Operations.** Three credits. Prerequisites: MATH 1730 or 1710; junior standing. Will not substitute for MGMT 3620. Fundamental concepts and decisions involved with planning, operating, and controlling operations function in a firm. (Not open to business majors.)

**3620 Production and Operations Systems.** Three credits. Prerequisites: Q M 2610; junior standing. Management of production systems with emphasis on the process, system inputs, transformations, system outputs, and techniques for decision making.

**3640 Introduction to Management Science.** Three credits. Prerequisites: Q M 2610; junior standing. Introduction to optimization techniques used in business decision making, including mathematical programming, queuing theory, critical path methods, sequencing and balancing methodologies, inventory models, and simulation. **NOTE:** Should take with or have completed MGMT 3620.

**3710 Management of Quality.** Three credits. Introduction to design, operation, and control of quality systems; implementation approaches including behavioral and technical issues; strategic importance; quality improvement tools and their use; supplier certification; awards and recognition. **NOTE:** Should take with or have completed MGMT 3620.

**3730 Management of Technology.** Three credits. Examination of the management of the process of forecasting, acquiring, and integrating emerging technologies into the firm's products/services and processes. Particular emphasis given to information and communications technologies. Course structure may vary. **NOTE:** Should take with or have completed MGMT 3620.

**3750 Supply Chain Management.** Three credits. Prerequisite: MGMT 3620. Design, operations, and control of materials management systems; implementation approaches including behavioral and technical issues; strategic role in independent and dependent demand environments; software systems; customer-supplier relationships. **NOTE:** Should take with or have completed MGMT 3620.

**3770 Operations Simulation.** Three credits. Introduction to the development of computer simulation as a decision-making tool. Investigation of computer simulation methodology and its application in the analysis of business systems such as service waiting lines and inventory systems. A graphical or menu driven network modeling system for the personal computer will be the primary simulation method emphasized. **NOTE:** Should take with or have completed MGMT 3620.

**4610 Advanced Operations Management.** Three credits. Prerequisites: MGMT 3620 and 6 hours production/operations management electives (MGMT 3710, 3730, 3750, 3770, 4700). Application of techniques used to design, operate, and control complex operations systems. Emphasis on system description, analysis, and implementation issues. Course structure varies.

**4700 Problems in Operations Management.** Three credits. Prerequisite: MGMT 3620. Current issues in managing operations such as operations strategy, productivity, quality, capacity management, facilities location, materials management systems, service operations, and operations planning and control systems. Topics covered and course structure vary.

## Courses in Marketing [MKT]

**3820 Principles of Marketing.** Three credits. Prerequisite: Junior standing. Survey of the functions, processes, and institutions involved in the distribution of consumer and industrial goods and services. Decision making in marketing management introduced.

**3830 Retailing.** Three credits. Prerequisite: MKT 3820. Development and present status of the retailing structure with special consideration given to the fundamentals of store organization, operation, current distribution problems, research techniques, and possible innovations.

**3840 Personal Selling.** Three credits. Prerequisite: MKT 3820. Principles, problems, and role of personal selling in the business environment. Buying motives, persuasion techniques, and steps of selling process are considered as they relate to different types of sales activities and products.

**3850 Promotion.** Three credits. Prerequisite: MKT 3820. Psychological, sociological, legal, and marketing environments of promotion; the promotion mix consisting of advertising, publicity, personal selling, and sales promotion; and the development of promotion objectives, strategies, and plans.

**3855 Product Management.** Three credits. Prerequisites: MKT 3820; Q M 2610; ACTG 2110, 2120. Issues pertaining to marketing of products. Examines topics of interest to product managers including product life cycle, sales forecasting, new products, product positioning, and brand management.

**3860 Purchasing.** Three credits. Prerequisite: MKT 3820 or approval of instructor. Purchasing management of materials and equipment in industry and government. Includes the optimum of quality, price, source, quantity, and time.

**3865 Sports Marketing.** Three credits. Prerequisites: MKT 3820 and 3850. Survey of issues pertaining to the marketing of sports products and entities. Focuses on the application of strategic marketing planning to the sports industry.

**3870 Principles of Transportation.** Three credits. Prerequisite: MKT 3820. Transportation development in the United States and internationally. A historical, economic, and regulatory perspective.

**3880 Credit and Price Management.** Three credits. Prerequisite: MKT 3820. Credit and pricing policies, procedures, organization; analysis of credit and pricing information as related to marketing activities; determination of credit limits and price levels; statement analysis; cost and collection procedures.

**3900 Direct Marketing and Electronic Commerce.** Three credits. Prerequisite: MKT 3820. Direct marketing and its strategic use

in the development of an integrated marketing communications plan. Topics include traditional direct marketing techniques such as direct mail, broadcast and print media, and telemarketing; Web-based marketing; and technology's impact on direct marketing communications techniques.

**3910 Consumer Behavior.** Three credits. Prerequisite: MKT 3820. Buyer behavior as an influence in marketing decisions; special attention given to the processes of motivation, perception, attitude, learning, and interaction.

**3920 Entertainment Marketing.** Three credits. Prerequisite: MKT 3850. Discussion of interrelated marketing issues dealing with the entertainment industry. Develops and relates the marketing mix for industry issues with regard to personality management, merchandising tie-ins, sports marketing/issues, and film/television distribution.

**3930 Marketing Research.** Three credits. Prerequisites: MKT 3820 and Q M 3620. Modern research methods and their application in gathering information for marketing decisions. Special emphasis given to the implementation of marketing surveys and experiments.

**3950 Business-to-Business Marketing.** Three credits. Prerequisite: MKT 3820. Survey of managerial decisions involved in the business-to-business marketing of goods and services.

**3960 Marketing Channels Management.** Three credits. Prerequisite: MKT 3820. Interrelationships and interdependencies among the various institutions and agencies composing marketing channels. Emphasis on analysis of alternative strategies of different channel members for optimum efficiency within a given distribution system.

**3970, 3980 Cooperative Education.** One to three credits. Prerequisite: Junior standing. Provides students with opportunities for full-time on-the-job training in conjunction with on-campus academic experiences. Students participate in professional growth seminars. Departmental and MTSU Cooperative Education Office requirements must be completed to receive credit. Courses (1) may not be used to satisfy the major or minor requirements and (2) may not be taken concurrently with B AD 4980.

**4170 Applied Promotional Strategy.** Three credits. Prerequisite: MKT 3850. Integrative nature of the elements of the promotional mix in the successful communication with the consumer of a firm's products and services.

**4710 International Business.** Three credits. (Same as MGMT 4710.) Prerequisites: MGMT 3610 and MKT 3820. International organizational structures and managerial processes. Cultural, political, economic, and legal environments of global marketing. World market patterns and international trade theory.

**4800 Sales Management.** Three credits. Prerequisites: MKT 3820 and 3840. Management functions as applied to field sales force. Includes sales organization structures, selection and training of sales personnel, sales compensation, supervision and stimulation of the sales force, and evaluation of sales performance.

**4810 Physical Distribution Analysis.** Three credits. Prerequisite: MKT 3820. Distribution logistics as related to time-service concepts, profit control centers, and technological gains. Organization structure, communication problems, and alternative inventory management, warehousing, and transportation.

- 4850 Advanced Selling.** Three credits. Prerequisites: MKT 3820 and 3840. The sales function as it relates to business-to-business selling and strategic relationship development. Topics include relational selling, account management, negotiation, team selling, handling conflict and ethical dilemmas, and selling to buying committees. Learning through interactive lecture, role-playing, and sales force automation software.
- 4860 Problems in Retail Management.** Three credits. Prerequisite: MKT 3830. Factors governing a successful retail operation including current problems, case studies, and simulation in merchandising, budgeting, and control.
- 4870 Services Marketing.** Three credits. Prerequisite: MKT 3820. The role and scope of marketing in service entities, including impact, issues, and domestic and global trends.
- 4880 Applied Marketing Research.** Three credits. Prerequisite: MKT 3930. Applies marketing research concepts and tools learned in the introductory marketing research class to “real-life” marketing problems. Emphasis on planning and implementing research activities as well as oral and written presentation of results and conclusions based on marketing research.
- 4890 Marketing Management.** Three credits. Prerequisites: Senior standing; Marketing major; MKT 3910, 3930, and 6 additional

semester hours of marketing courses. Marketing strategy, marketing policies, production planning, pricing, promotion, and service from the marketing manager’s point of view. Case analysis and marketing simulation emphasized.

- 4950 Marketing Internship.** One to three credits. Prerequisites: Marketing major with senior standing and an overall grade point average of 2.50. Student is affiliated with an organization on a part-time basis to develop knowledge and experience in the practical application of marketing principles to actual business problems in a non-classroom situation. Can be applied toward the student’s degree requirements only upon approval of the department chair. This course can only be taken one time.
- 4990 Independent Study.** One to three credits. Prerequisites: Senior standing and approval of department chair. Individual research and analysis of contemporary problems and issues in a concentrated area under the guidance of an approved faculty member. This course can only be taken one time.

### Graduate Study

Requirements for the Master of Business Administration degree and a list of the courses offered for graduate credit are published in the Graduate Catalog.





# COLLEGE OF EDUCATION AND BEHAVIORAL SCIENCE

Gloria Bonner, Dean,  
McWherter Learning Resources Center 100

Dorothy Craig, Associate Dean for Teacher Education,  
McWherter Learning Resources Center 102

Doug Winborn, Assistant Dean for Program Planning,  
Assessment, and Accreditation,  
McWherter Learning Resources Center 102B

Sandie Norton, Academic Advisor,  
Jones Hall 117

**Criminal Justice Administration • Educational Leadership  
• Elementary and Special Education • Health, Physical  
Education, Recreation, and Safety • Human Sciences •  
Psychology**

The specific objectives of the College of Education and Behavioral Science are to coordinate the teacher education programs of the University and prepare teachers who are reflective decision-makers; to provide professional courses in the preparation of teachers and school personnel; to provide programs and services for teachers and personnel already in service; and to provide appropriate experiences in the arts and behavioral sciences which contribute to a liberal education or for careers in these fields.

All academic units within the College of Education and Behavioral Science offer a variety of programs that seek to prepare graduates to be competitive in the respective discipline-related professions. Specific departmental objectives, requirements for majors and minors, and descriptions of courses follow each departmental listing.





## Laboratory Schools

The Homer Pittard Campus School is a laboratory unit of the Department of Elementary and Special Education. As a public school, comprising grades K through 6, the program operates under the supervision of the College of Education and Behavioral Science and the Rutherford County School System. The campus school serves the professional education programs in teacher education as a laboratory by providing varied opportunities for University students to study children, to study the school program, to participate in teaching activities, and to learn teaching theory.

Project HELP, an educational program for preschool children who are disabled, is another laboratory in the College of Education and Behavioral Science. In addition to special education, it provides the setting for observation/participation experiences in several academic departments.

The Nursery School and Parent-Child Learning Center are located in the Department of Human Sciences and serve as teaching laboratories for child development and early childhood and elementary education.

## Accreditation

Teacher preparation programs for undergraduate and graduate programs through the Specialist in Education degree for the preparation of teachers and related school personnel are accredited by the National Council for Accreditation of Teacher Education. The College of Education and Behavioral Science holds membership in the Tennessee Association of Colleges for Teacher Education and the American Association of Colleges for Teacher Education.

## Admission to Teacher Education

Students who wish to prepare themselves for careers as teachers must make formal application for admission to the teacher education program. Applications must be filed no later than the second semester of the sophomore year. Students who transfer to Middle Tennessee State University after the completion of their sophomore years, or with more than 45 semester hours of credit, must make application during their first semester of residence at MTSU. **Admission to teacher education is a prerequisite to enrollment in upper-division courses in Elementary Education (ELED), Reading (READ), Special Education (SPED) (except SPED 3010), Foundations of Education (FOED), or Youth Education (YOED).**

To be formally admitted to the teacher education program, one must

1. complete the admission application;
2. have acceptable scores on the Pre-Professional Skills Test of Reading, Mathematics, and Writing as set by the Tennessee State Board of Education;
3. complete at least 45 semester hours with at least 6 semester hours at MTSU
4. complete FOED 1110 and FOED 2110 (or approved substitutes);
5. have an overall grade point average of 2.50 (grades earned in basic and developmental courses are not used in computation of the required average);

6. have three favorable professional interviews;
7. have disciplinary clearance from the Office of Teacher Education.

Application forms for Admission to Teacher Education may be secured from the Office of Professional Laboratory Experiences, McWherter Learning Resources Center 170. Information regarding tests is also available from the Office of Professional Laboratory Experiences.

## Post-Baccalaureate Teacher Education Program

The post-baccalaureate teacher education program is designed for individuals who have completed baccalaureate degrees but who did not complete teacher preparation. The College of Education and Behavioral Science requires candidates to address any course and program deficiencies in their undergraduate education to ensure the attainment of the knowledge and skills required in general education, professional education, and the major for the teaching field. Additional coursework and program requirements will be determined by the teacher licensure analyst. Transcript analysis forms for the post-baccalaureate program are available in McWherter Learning Resources Center 173.

Post-baccalaureate students must also make formal application for admission to the teacher education program. Admission to teacher education is a prerequisite to enrollment in upper-division courses in Elementary Education (ELED), Reading (READ), Special Education (SPED) (except SPED 3010), Foundations of Education (FOED), or Youth Education (YOED).

## Directed Teaching

Directed teaching is the culminating professional experience in the pre-service education of teachers. Admission to directed teaching and the professional semester is based upon successful completion of the following requirements and formal application by the student. *Applications must be filed at the beginning of the semester preceding the semester in which directed teaching is to be done.* Students should confirm specific deadline dates for student teaching applications with the Office of Professional Laboratory Experiences. Directed teaching must be taken in the student's major endorsement.

To enroll in directed teaching and the professional semester one must

1. complete the admission application;
2. have completed formal admission to teacher education at the time that the application is filed;
3. have grade point average of 2.50 overall and a 2.50 grade point average in the teaching major (grades earned in basic and developmental courses are not used in computation of the required average; computation of the grade point average in the teaching major will include all coursework taken in the departments contributing to the teaching major; this includes all coursework, if any, taken beyond the required and elective courses in the teaching major);
4. complete all education courses and appropriate methods course(s) with a grade of C or better;
5. be classified as a senior, graduate student, or post-baccalaureate student;
6. be favorably evaluated in the required field and laboratory experiences (course grades alone may not be used to meet this requirement);
7. submit a negative tuberculin test.

Directed teaching is a full-time, entire semester activity that takes place in either fall or spring semester of the senior year. It is the culminating experience of the professional education program, in which student teachers undertake two consecutive placements in local public schools.

### Licensure of Teachers

Completion of an approved program and recommendation by the University are required for a Tennessee Probationary Teacher's License. Forms for making application for the initial Tennessee Teacher's License are available in the Teacher Licensing Office, McWherter Learning Resources Center 173.

All applicants for a teacher's license shall furnish the teacher licensing analyst a report of scores attained on the Praxis II Exam (Principles of Learning and Teaching) and certain designated Specialty Tests so that they may be submitted to the State Department of Education at the time of recommendation. When students make application to take the National Teacher's Exam they should indicate on the application form that their test scores be sent to

Teacher Licensing Analyst  
College of Education and Behavioral Science  
Middle Tennessee State University  
Murfreesboro, Tennessee 37132

Information regarding minimum scores and applicable NTE Specialty Area Tests is available in the office of the licensing analyst, McWherter Learning Resources Center 173.

To be recommended for a license, students who have majors in Interdisciplinary Studies, Early Childhood Education, or Special Education must have at least a 2.50 grade point average.

To be recommended for a license, students who have prepared to teach in grades 5-12 or K-12 must have an overall grade point average of 2.50 in the teaching major. Included in the computation are grades assigned in all courses attempted in departments contributing to the teaching major. This includes all coursework, if any, taken beyond the required elective courses in the teaching major. Grades earned in basic or developmental courses are not used in computing the average required.

### Early Childhood Education: Pre-Kindergarten through Grade 4

Requirements for the major in Early Childhood Education must be completed. Consult the Department of Human Sciences for requirements.

### Elementary Endorsement, Grades K-6 and 5-8

Requirements for the major in Interdisciplinary Studies must be completed. Consult the Department of Elementary and Special Education for requirements.

### Special Education, Grades K-12

Requirements for the major in Special Education must be completed. Consult the Department of Elementary and Special Education for requirements.



**Licensure: Secondary**

Students seeking a license to teach in secondary schools must complete 1) a major in the subject they intend to teach, 2) a minor in Secondary Education, and 3) additional teacher licensure requirements.

Following is a list of the teacher education programs leading to initial licensure:

<b>MTSU Major or Concentration</b>	<b>State Endorsement Area</b>	<b>Dept./School to Consult for Information</b>
Agribusiness	Voc. Agriculture 7-12/Agriscience	Agribusiness and Agriscience
Animal Science	Voc. Agriculture 7-12/Agriscience	Agribusiness and Agriscience
Art Education	Visual Arts K-12	Art
Business Education	Basic Business/Accounting 7-12 Optional endorsement in Economics 7-12 Typewriting/Keyboarding 1-6, 7-12 Data Processing 7-12 Office Technology 7-12	BMOM
Biology	Biology 7-12	Biology
Chemistry	Chemistry 7-12	Chemistry
Geoscience	Earth Science 7-12	Geosciences
English	English 7-12	English
French	French 7-12	Foreign Languages and Literatures
Geography	Geography 7-12, Earth Science 7-12	Geosciences
German	German 7-12	Foreign Languages and Literatures
Political Science	Government 7-12	Political Science
Health Education	Health K-12	HPERS
History	History 7-12	History
Mathematics	Mathematics 7-12	Mathematical Sciences
Music (Instrumental) (School Music Education)	Instrumental Music K-12 Vocal/General Music K-12	Music Music
Physical Education	Physical Education K-12	HPERS
Physics	Physics 7-12	Physics and Astronomy
Plant and Soil Science Science	Voc. Agriculture 7-12/Agriscience Biology/Chemistry Chemistry/Physics Physics/Biology	Agribusiness and Agriscience Biology Chemistry Physics and Astronomy
Spanish	Spanish 7-12	Foreign Languages and Literatures
Speech and Theatre	Speech Communication 7-12	Speech and Theatre
Technology Education	Industrial Technology 5-12	Engineering Technology and Industrial Studies
Theatre	Speech Communication and Theatre Theatre K-12	Speech and Theatre Speech and Theatre
Home Economics Education	Consumer and Homemaking Education 5-12	Human Sciences

# Department of Criminal Justice Administration

Deborah Newman, Interim Chair  
Vaughn House 6

Choo, Miller, Powell, Rogers, Selva, Shulman

Courses in the Department of Criminal Justice Administration provide students with a well-rounded curriculum designed to meet the academic needs of those seeking careers in law enforcement, courts, and corrections as well as those already employed in the criminal justice system and related agencies.

A major in Criminal Justice Administration offers a foundation in liberal arts, a deep and broad knowledge of criminal justice, and an educational background uniquely tailored for each student pursuing a career in the criminal justice system. The student seeking a major in Criminal Justice Administration may choose either a Bachelor of Science degree in Criminal Justice or Criminal Justice with a concentration in Law Enforcement. The concentration in Law Enforcement is designed for those students with career goals or an interest in law enforcement at the local, state, and federal levels.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

## Major in Criminal Justice Administration

Requirements for the major in Criminal Justice Administration include

- 48 semester hours of criminal justice courses including the required core courses CJA 1100, 2200, 2400, 2600, 3200, 3400;
- No concentration** - 30 hours of CJA courses (as advised) or  
**Law Enforcement Concentration** - 15 hours from the following: CJA 2900, 3230, 3250, 4220, 4260, 4330, 4340, 4530 and 15 hours from CJA courses (as advised);
- 13 hours of general electives (as advised);
- a minor of 18 hours (if minor requires more or less hours, adjustment will be made within general electives).

Following is a suggested pattern of study; however, consultation with the assigned advisor is necessary before each registration.

### Recommended Curriculum

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	COMM 2200 (Comm)	3
Humanities and/or Fine Arts	3	CJA 3200, 3400	6
Natural Sciences (2 prefixes)**	8	HIST 2010, 2020, or 2030	6
CJA 1100, 2200	6	Social/Behavioral Sciences (2 prefixes)	6
CJA 2400, 2600	6	CJA Law Enforcement concentration*	6
Minor	3	Minor	3
	<b>32</b>		<b>30</b>
JUNIOR		SENIOR	
ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3	CJA courses	9
Mathematics	3	Minor	6
Humanities and/or Fine Arts	3	General electives (as advised)	13
CJA courses	15		<b>28</b>
Minor	6		
	<b>30</b>		

\*CJA major with Law Enforcement concentration must fulfill the 15-hour requirement

\*\*PSCI 1030 recommended

### Minor in Criminal Justice Administration

A minor in Criminal Justice Administration requires 18 semester hours including CJA 1100, 2200, 2400 or 2600, and 9 hours of criminal justice upper-division electives. CJA 4300 may **not** be used for the 9 hours of electives, but may be taken by minors.

## Courses in Criminal Justice Administration [CJA]

**1100 Introduction to Criminal Justice Administration.** Three credits. Survey of the criminal justice system; philosophy and history of criminal justice agencies; analysis of the problems and needs of agencies involved in the criminal justice process; survey of professional career opportunities.

**2200 Prevention and Control of Crime.** Three credits. The police function; an analysis of crime prevention and control; major problems and needs of the law enforcement segment of the criminal justice system.

**2400 The Judicial Process.** Three credits. The structure and function of the judicial system; the major problems and needs of the judicial segment of the criminal justice system; major emphasis on the basic concepts of criminal law and administration.

**2600 Corrections.** Three credits. History of the development of corrections in Europe and America; survey of current prison conditions and operations, including pre-release, probation, and parole.

**2900 Practicum in Law Enforcement.** Six credits. Practicum. (Specialized Instruction, Tennessee Law Enforcement Training Academy, Donelson.) In addition to normal tuition and fees, students will also be required to pay room and board costs at the Academy. Open only to pre-service seniors. Arrangements to take this course should be made with the department chair at least one semester in advance so that the student can be enrolled in the academy.



- 3200 Research Methods with Computer Technology.** Three credits. Prerequisite: CJA 1100 or permission of instructor. Overview of scientific research methods in criminal justice with emphasis on computer technology to conduct research and interpretation and analysis on various statistical data.
- 3220 Ethics in Criminal Justice.** Three credits. Principles of justice and ethics. Covers ethics and law, police and ethical standards, ethics and the courts, and correctional ethics.
- 3230 Police Organization and Administration.** Three credits. Principles of organization and personnel management, line staff and auxiliary functions; the police organization and the individual; planning, research, and development; political controls on authority and jurisdiction; professionalization of the police.
- 3250 Criminal Law.** Three credits. Prerequisite: CJA 1110. Theories and principles of the body of substantive criminal law. Covers the elements of the range of criminal law offenses.
- 3400 Constitutional Issues and Criminal Justice.** Three credits. Development of Constitutional and procedural controls of the administration of criminal justice. Constitutional limits on law enforcement agencies including the laws of arrest, search and seizure, admissions and confessions, and eavesdropping; on pre-trial and trial procedures, on past conviction processes. Emphasis on current U.S. Supreme Court decisions.
- 3630 Probation and Parole.** Three credits. An analysis of the history, theory, philosophy, and function of probation, parole and pardon; evaluation of the effectiveness of the individual in the community; usage of pre-sentence investigation; selection, supervision, and release of probationers and parolees.
- 3700 Women, Crime, and Justice Administration.** Three credits. (Same as WMST 3700.) Explores the experience of women in the criminal justice system as victims of violence and as criminal justice employees and prisoners. Focus on gender-based differences in the experience of criminal justice from historical, economic, and professional perspectives.
- 3750 Terrorism and Criminal Justice.** Three credits. Prerequisite: CJA 1100 or permission of instructor. Meaning, history, purposes, and incidents of terrorism. Emphasis on terrorist acts as crimes along with the unique role of law enforcement in the detection, prevention, investigation, and prosecution of the crimes. Legislative, constitutional, and legal issues surrounding law enforcement, courts, and corrections explored.
- 3900 Organized and White-Collar Crime.** Three credits. Prerequisite: CJA 1110. Explores emergent and historical treatments of white collar and organized crime, with an emphasis on theoretical, etiological, and enforcement typologies in both the criminological and criminal justice literatures. Advent of several high-profile connections between traditionally distinct organized and white-collar crimes emphasized.
- 4220 Community Relations and Minority Problems.** Three credits. Analysis of public hostility toward police and current community relations projects, human relations, training and education of law enforcement officers; responsibilities of police administrators, causes of tension and conflict, dissent and disorder, positive and negative factors in the control of minority group hostilities; minority recruitment in law enforcement.
- 4260 Special Issues in Law Enforcement.** Three credits. A variety of subtopics related to the law enforcement segment of the criminal justice system such as problems in private and public morality with regard to drug use, alcoholism and sex offenses; analysis of current police training programs; relationship between legislation and political processes which affect law enforcement.
- 4300 Criminal Justice Internship.** Nine credits. (Open only to pre-service seniors, e.g., those preparing for a career in the criminal justice field who are not currently employed by a criminal justice agency and restricted to Criminal Justice Administration majors and minors. Permission of instructor required.) Field placement in a criminal justice agency to provide practical understanding and experience in the field. A minimum of 320 clock hours required.
- 4330 Criminal Investigations.** Three credits. (For Criminal Justice Administration majors or minors or with permission of instructor.) General investigative responsibilities and techniques including administration, preparation, investigative jurisdiction and responsibility, and the importance of substantive report writing.
- 4340 Advanced Criminal Investigation.** Three credits. Prerequisite: CJA 4330. Advanced approach to the various elements of criminal investigations. Provides simulated investigative experiences through the use of mock crime scenes. Emphasis on preparing students for a career in law enforcement.
- 4500 The Juvenile Justice System.** Three credits. The problem of juvenile delinquency and youth crime with emphasis on the history of the juvenile justice system, the court and police role within the system, rehabilitation and correction of the delinquent, and juvenile probation services. Alternatives to traditional procedures, such as community-based programs versus correctional institutions, and non-judicial and judicial adjustment examined.
- 4530 Criminal Evidence and Procedures.** Three credits. Designed to develop an understanding of the types of individuals and problems of admissibility in court proceedings, the proper treatment and disposition of evidence, the legal procedure to be followed, and the actual trial procedure.
- 4750 Seminar in Corrections.** Three credits. Each student required to select a problem area of interest for an intensive research effort. The group will be presented with a contemporary corrections issue or problem and will be required to create practical and workable strategies for coping with the issue.
- 4800 Crime in America: An Assessment.** Three credits. An in-depth survey of the impact of crime on American society; the amount and trends of crime, the economic impact of crime, professional and white collar crime, characteristics of offenders, and victims of crime.
- 4850 Private and Industrial Security.** Three credits. An examination of the relationship between the criminal justice system and private and industrial security including historical roots and mutual concerns. Also internal theft, white-collar crime, retail security, institutional security, cargo and computer security as well as the role of the criminal justice system in prevention and investigation.
- 4860 Security Administration.** Three credits. The placement of the security function within an organization. The role of the security manager in developing a program to protect assets and reduce illegal losses and to provide protection for personnel. The application of management techniques to the operation of the organization's security division, including personnel recruitment and selection. Development of security survey techniques, identification of security risks, and techniques used to eliminate opportunities for theft.

**4870 Security Law.** Three credits. An analysis of the legal background of private and proprietary security. Critical current legal issues in the private security field. Legal relationships between private and proprietary security operations and public law enforcement agencies.

**4900 Readings in Criminal Justice Administration.** Three credits. (Open only to Criminal Justice Administration majors and minors.) For the advanced student who is capable of independent study. Readings in a particular area of criminal justice relevant to the individual student's interests. Preparation of an annotated bibliography and report required. Arrangements for this course should be made with the instructor prior to registration.



# Department of Educational Leadership

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**James Huffman, Chair**  
Jones Hall 325

**Bonner, Brown, Bullen, Craig, Eaker, Hausler, Hayes, Moseley, Patten, Peyton, Sanders, Shibinski, Snead, Weeks, Williams, Womack, Young**

Courses in the Department of Educational Leadership are designed to meet the professional needs of students planning to teach. Persons preparing to teach in the secondary school must earn a major in an endorsable teaching field, complete appropriate General Education requirements, and minor in Secondary Education. The Secondary Education minor is offered through this department. A non-teaching minor in Education is also offered.

The minor in Secondary Education has been revised. Please select the version based on the remainder of your program. See Educational Leadership for additional information.

## **Minor in Secondary Education— Effective Through Summer 2005**

Students seeking a minor in Secondary Education must complete the following courses:

FOED 1110 Education as a Profession, 3 hours  
FOED 2110 Educational Psychology, 3 hours\*  
SPED 3010 Survey of the Exceptional Child, 3 hours\*  
YOED 3050 Analysis of Effective Teaching, 3 hours\*\*\*  
YOED 3100 Methods and Strategies of Teaching, 3 hours\* \*\*  
SPSE 3220 Technology in Teaching, 3 hours  
YOED 4000 Managing the Classroom for Instruction, 3 hours\*  
READ 4460 Teaching Reading in the Content Areas, 3 hours\*\*  
YOED 4110 Directed Teaching, Grades 7-12, 12 hours

*\*Field experience required*

*\*\*Not required for majors/certification in Music, Art, Agricultural Education, Health Education, Physical Education, Home Economics Education, Industrial Studies, Business Education. READ 3340, Teaching Reading in the Secondary School (3 semester hours), is required of English majors in lieu of READ 4460.*

*\*\*\*A grade of C or better required to proceed to YOED 3100.*

## **Minor in Secondary Education— Effective Fall 2005**

Students seeking a minor in Secondary Education must complete the following courses:

FOED 1110 Education as a Profession, 3 hours  
FOED 2110 Educational Psychology, 3 hours\*  
SPED 3010 Survey of the Exceptional Child, 3 hours\*  
SPSE 3220 Technology in Teaching, 3 hours  
YOED 3500 Instructional Design for Critical Thinking, 3 hours  
READ 4460 Teaching Reading in the Content Areas, 3 hours\*\*  
YOED 4000 Managing the Classroom for Instruction, 3 hours\*  
(YOED 4000 and 4110/5110 must be taken concurrently.)  
YOED 4110 Directed Teaching, Grades 7-12, 9-12 hours

\*Field experience required

\*\*Not required for selected majors; READ 3340, *Teaching Reading in the Secondary School* (3 semester hours), is required of English majors in lieu of READ 4460.

### Minor in Education (Non-teaching)

The program for the non-teaching minor in Education is planned to provide a knowledge base for a public better informed on educational matters and for those students who wish to pursue study in professional education but are not interested in obtaining credentials for school teaching. The minor requires 18 semester hours including FOED 1110 and 2110 and 12 elective hours selected with the approval of the department chair or advisor for the non-teaching minor.

### Courses in Foundations of Education [FOED]

**1110 Education as a Profession.** Three credits. History and organization of American education from its foundation to the present. Includes issues concerning curriculum, organization, and administration of public education in the United States. Designed to assist prospective teachers in evaluating personal qualification in relation to professional needs and investigating teaching as a career.

**2110 Educational Psychology.** Three credits. Physical, social, emotional, and mental development of the human from birth to maturity. Includes basic theories of learning including behaviorism, constructivism, and humanism along with theories of motivating and facilitating learning processes in social settings. A 10-hour tutorial assignment in a public school necessary.

**3350 Instructional Development Laboratory for Teachers.** Four credits. Innovative course in methodology providing experiences with audio/visual aids and equipment, preparation of instructional plans, try-out of plans with videotaped, micro-teaching sessions; problems relating to teacher-pupil relationships and discipline included.

### Courses in Youth Education [YOED]

**3050 Analysis of Effective Teaching.** Three credits. Prerequisite to YOED 3100. Provides an overview of research on effective teaching. Emphasis on building a research-informed knowledge base that will enable beginning teachers to make sound professional judgments in the teaching situation. *Course will become inactive Summer 2007.*

**3100 Methods and Strategies of Teaching.** Three credits. Prerequisites: YOED 3050 and admission to the teacher education program. Focuses on practical application, including some practice, of effective teaching strategies. Emphasis on teaching techniques demonstrated by research to positively affect student achievement and student attitudes toward school. Course includes practice as appropriate in the form of mini-lessons and micro-teaching episodes. Teaching assignment in a public school required. *Course will become inactive Summer 2007.*

**3500 Instructional Design for Critical Thinking.** Three credits. Prerequisites: FOED 1110 and 2110; admission to teacher education program. Focuses on practical application, including some practice of multiple teaching strategies designed to foster critical thinking skills. Students will teach mini-lessons and engage in micro-teaching episodes. Teaching assignment in a public school required.

**4000 Managing the Classroom for Instruction.** Three credits. Prerequisite: Admission to teacher education program. Course will be taken in conjunction with YOED 4110/5110. Introduction, examination, and practice in multiple models and approaches to classroom management and discipline. Analysis and interpretation of related research. Application of principles and procedures in classroom management to school and classroom settings. Field experience in a public school required.

**4110 Directed Teaching, Grades 7-12.** Nine-twelve credits. Prerequisites: All required professional education courses; appropriate special methods course(s); senior standing, minimum grade point average of 2.50 overall and in the teaching major; admission to teacher education. A full-day, full-semester supervised teaching experience in a public school classroom. Pass/Fail. **NOTE:** YOED 4110 will become nine credits effective Fall 2005.

**4510 The Teaching Internship, Grades 7-12.** Nine credits. Supervised teaching available only to those with at least one year of paid teaching experience in the major in which endorsement is sought. Applicants must meet all prerequisites for directed teaching.

### Courses in School Personnel Services Education [SPSE]

**3220 Technology in Teaching.** Three credits. Prerequisite: Admission to teacher education program. Enables teachers to use technology to deliver curriculum, prepare course materials, and keep student records. Key concepts and skills include preparation of lesson plans and unit plans; development of an e-portfolio and Web page; and the integration of technology to teaching, learning, and assessment.

**4100 Counseling and Leadership Seminar in Student Affairs.** Three credits. (Same as PSY 4100.) Prerequisite: Permission of Student Affairs personnel. Offers student leaders in Student Affairs opportunities to learn and practice skills to help them be more effective leaders. Credit for this class may not be counted toward the student's major or minor.

**4210 General Methods Including A/V.** Three credits. Methods and teaching strategies generally applicable to the secondary school: instructional planning, classroom management, and the effective utilization of learning materials and audio/visual aids.

**4260 Problems in Education.** One to three credits. An opportunity for individuals or groups to work on problems related to their needs. Topic and credit to be determined at the time of scheduling. Maximum of six semester hours credit may be applied toward a degree.

### Courses in Library Science [LIBS]

**4150 Books and Media for Children.** Three credits. Materials suitable for elementary school children including a study of leisure time interests and curricular needs, criteria for evaluating materials, and related aids used in their selection.

**4160 Books and Media for Young People and Adults.** Three credits. Basically the same approach as 4150 but adapted to the secondary school and adult level.

### Graduate Study

Requirements for the Master's and Specialist in Education degrees and a list of the courses offered for graduate credit are published in the Graduate Catalog.



# Department of Elementary and Special Education

**Connie Jones, Chair**  
Jones Hall 223

**Alexander, Bertrand, Burriss, Calder, Campbell, Crews, Gower, Higdon, Jones, Means, Moore, Ring, Rushlow, Shaffer, Solley, Trent, P. Waldrop, S. Waldrop**

Courses in the Department of Elementary and Special Education are designed to meet the professional needs of students preparing to teach at the elementary level and to improve the teaching competencies of those presently employed as teachers. Programs in the department lead to the Bachelor of Science with majors in Interdisciplinary Studies or Special Education. Students majoring in Interdisciplinary Studies must select a teaching level of grades K-6 or 5-8. Special Education majors may choose between Modified Program, K-12 (for individuals with mild/moderate disabilities), or Comprehensive Program, K-12 (for individuals with severe/profound disabilities). A minor in Special Education is also available. Students interested in Early Childhood Education (Pre-K-4) should see that section under Department of Human Sciences. Students who wish to major in Interdisciplinary Studies but not pursue licensure are required to check with the Department of Elementary and Special Education in Jones Hall 223 to develop an appropriate course of study. Students should consult with their assigned advisors before each registration.

## Major in Interdisciplinary Studies

Designed to prepare teachers for elementary schools, the major in Interdisciplinary Studies requires courses which satisfy the requirements for General Education, Interdisciplinary Studies major, professional education, and enhanced student teaching, is as follows:

### General Education Requirements

MATH 1010 OR 1710 (Math), 3 hours  
ENGL 1010, 1020 (Comm), 6 hours  
COMM 2200 (Comm), 3 hours  
HIST 2010 OR 2020 (History), 3 hours  
HIST 2030 (History), 3 hours  
ENGL 2030 (Hum/FA), 3 hours  
ART 1030 OR MUS 1030 (Hum/FA), 3 hours  
HIST 1110 OR 1120 (Hum/FA), 3 hours  
GEOG 2000 (Soc/Beh Sci), 3 hours  
HLTH 1530 (Soc/Beh Sci), 3 hours  
BIOL 1030 (Nat Sci), 4 hours  
PSCI 1030 (Nat Sci), 4 hours

## Interdisciplinary Studies Major Requirements

### Grades K-6 Level

BIOL 3000 Life Science for Elementary Teachers, 4 hours  
PSCI 4030 Experimental Physical Science, 4 hours  
ENGL 4510 Modern English Grammar and Usage, 3 hours  
MATH 1410 Concepts and Structure of Elementary School Mathematics, 3 hours  
MATH 1420 Informal Geometry, 3 hours  
READ 4130 Corrective Reading, 3 hours  
PHED activity, 1 hour  
ANTH 2010 Cultural Anthropology OR  
COMM 4560 Intercultural Communication, 3 hours  
HLTH 4300, The School Health Program, 3 hours  
ENGL 3600 Children's Literature, 3 hours, OR  
LIBS 4150 Books and Media for Children, 3 hours  
ART 2210 Art Activities and Appreciation for Elementary School OR  
MUED 3210 Music in the Elementary Grades for Non-Music Majors OR  
THEA 3600 Child Drama OR  
CDIS 3250 Speech and Language Development, 3 hours  
PSY 2300 Developmental Psychology, 3 hours

### Grades 5-8 Level

MATH 3320 Teaching Mathematics in Grades 5-8 OR  
MATH 4010 Selected Topics in Elementary Mathematics, 3 hours  
MATH 1410 Concepts and Structure of Elementary School Mathematics, 3 hours  
HLTH 4300 The School Health Program, 3 hours  
BIOL 3000 Life Science for Elementary Teachers, 4 hours  
PSY 2300 Developmental Psychology, 3 hours  
READ 4130, Corrective Reading, 3 hours  
ART 2210 Art Activities and Appreciation for Elementary School OR  
MUED 3210 Music in the Elementary Grades for Non-Music Majors OR  
THEA 3600 Child Drama, 3 hours  
ENGL 3800 Literature for Adolescents, 3 hours OR  
LIBS 4160 Books and Media for Young People and Adults, 3 hours  
PSCI 4030 Experimental Physical Science, 4 hours\*  
MATH 1420 Informal Geometry, 3 hours  
ENGL 4510 Modern English Grammar and Usage, 3 hours  
PHED Activity, 1 hour

\*PSCI 1030 is a prerequisite for PSCI 4030.

## Professional Education

### Grades K-6 Level

FOED 1110 Education as a Profession, 3 hours  
FOED 2110 Educational Psychology, 3 hours  
SPED 3010 Survey of the Exceptional Child, 3 hours  
ELED 3050 Creating Learning Environments K-8, 3 hours  
ELED 3150 Mathematics Methodology, 3 hours  
ELED 3300 Instructional Design and Technology in the Elementary School, 3 hours  
ELED 4350 Theory to Practice, 4 hours  
ELED 4050 Classroom Assessment, 2 hours  
ELED 4060 Methods of Teaching Social Studies, 3 hours  
READ 4015 Language and Literacy, K-6, 6 hours

### Grades 5-8 level

FOED 1110 Education as a Profession, 3 hours  
FOED 2110 Educational Psychology, 3 hours  
SPED 3010 Survey of the Exceptional Child, 3 hours  
ELED 3070 Creating Learning Environments 5-8, 3 hours  
ELED 3150 Mathematics Methodology, 3 hours  
ELED 3300 Instructional Design and Technology in the Middle Grades, 5-8, 3 hours  
ELED 4050 Classroom Assessment, 2 hours  
ELED 4060 Methods of Teaching Social Studies, 3 hours  
ELED 4400 Middle School Instruction, 4 hours  
READ 4035 Language and Literacy in the Middle Grades, 6 hours

**Enhanced Student Teaching**

ELED 4110 Directed Teaching, Grades K-8, 12 hours

**Major in Special Education**

The major in Special Education requires 123 semester hours including courses which satisfy the General Education requirements. It is designed to prepare teachers in special education and will meet the Tennessee requirements for licensure in Special Education in either Modified Program, K-12 (for individuals with mild/moderate disabilities), or Comprehensive Program, K-12 (for individuals with severe/profound disabilities). Following are the program requirements.

**Additional General Education Requirements**

- BIOL 3000 Life Science for Elementary Teachers, 4 hours
- MATH 1410 Concepts and Structure of Elementary School Mathematics, 3 hours
- MATH 1420 Informal Geometry, 3 hours
- HIST 2010 Survey of United States History I OR HIST 2030 Tennessee History, 3 hours
- PSCI 1030 Topics in Physical Science, 4 hours, OR GEOL 1030/1031 Introduction to Earth Science/Lab, 4 hours
- HLTH 3300 First Aid and Safety Education, 3 hours
- Social/Behavioral Sciences elective, 3 hours
- Humanities and/or Fine Arts elective, 3 hours

**Special Education Major Requirements**

**Modified Program, K-12 (36 hours)**

- CDIS 3250 Speech and Language Development, 3 hours
- SPED 3210 Practicum in Special Education (Resource Room), 3 hours\*
- SPED 3430 Characteristics of Mildly Disabled Children, 3 hours
- SPED 3600 Teaching Diverse Learners in the General Education Classroom, 3 hours
- SPED 4000 Teaching Reading to Diverse Learners, 3 hours
- SPED 4150 Techniques, Methods, and Materials in Special Education (Mildly Disabled), 3 hours
- SPED 4160 Educational Assessment of Exceptional Children, 3 hours
- SPED 4170 Strategic Teaching and Learning in Secondary Special Education, 3 hours
- SPED 4240 Methods and Techniques of Behavior Management, 3 hours
- SPED 4250 Education in the Affective Domain, 3 hours
- SPED 4280 Assistive Technology in Special Education, 3 hours
- SPED 4380 Collaboration/Consultation, 3 hours

**Comprehensive Program, K-12 (36 hours)**

- CDIS 3250 Speech and Language Development, 3 hours
- SPED 3220 Practicum in Special Education (Self Contained), 3 hours
- SPED 3440 Characteristics of Severely/Profoundly Disabled Children, 3 hours
- SPED 4120 Techniques and Strategies for Instruction in Special Education (Severe/Profound Disabilities), 3 hours
- SPED 4240 Methods and Techniques of Behavior Management, 3 hours
- SPED 4280 Assistive Technology in Special Education, 3 hours
- SPED 4000 Teaching Reading to Diverse Learners, 3 hours
- SPED 4140 Curriculum, Methods, and Materials for Special Education (Severe/Profound Disabilities), 3 hours
- SPED 3600 Teaching Diverse Learners in General Education Classrooms, 3 hours
- PHED 4910 Kinesiology, 3 hours
- SPED 4380 Collaboration/Consultation, 3 hours
- SPED 4160 Educational Assessment for Exceptional Children, 3 hours

**Professional Education Modified Program, K-12**

- FOED 1110 Education as a Profession, 3 hours
- FOED 2110 Educational Psychology, 3 hours
- SPED 3010 Survey of the Exceptional Child, 3 hours
- ELED 3150 Mathematics Methodology, 3 hours
- ELED 3300 Instructional Design and Technology in the Elementary School, 3 hours
- READ 4015 Language and Literacy, K-6, 6 hours

**Comprehensive Program, K-12**

- FOED 1110 Education as a Profession, 3 hours
- FOED 2110 Educational Psychology, 3 hours
- SPED 3010 Survey of the Exceptional Child, 3 hours
- ELED 3150 Mathematics Methodology, 3 hours
- ELED 3300 Instructional Design and Technology in the Elementary School, 3 hours
- READ 4015 Language and Literacy, K-6, 6 hours

**Enhanced Student Teaching**

**Modified Program, K-12**

SPED 4350 Directed Teaching in Special Education (Resource Room), 12 hours

**Comprehensive Program, K-12**

SPED 4320 Directed Teaching in Special Education (Self Contained), 12 hours

**Recommended Curriculum - Modified†**

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
BIOL 1030 (Nat Sci)	4	ENGL 2030 (Hum/FA)	3
COMM 2200 (Comm)	3	FOED 2110	3
ENGL 1010, 1020 (Comm)	6	Humanities and/or Fine Arts	3
FOED 1110	3	HIST 2010, 2030	6
MATH 1010 (Math)	3	MATH 1420	3
Humanities and/or Fine Arts	3	BIOL 3000	4
HLTH 3300	3	ELED 3300	3
MATH 1410	3	Social/Behavioral Sciences	3
PSCI 1030 or GEOL 1030/1031 (Nat Sci)	4	SPED 3010	3
	<b>32</b>		<b>31</b>
<b>JUNIOR</b>		<b>SENIOR</b>	
ELED 3150*	3	SPED 4150*	3
SPED 3210*	3	SPED 4240*	3
SPED 4170*	3	SPED 3600*	3
SPED 3430*	3	SPED 4250*	3
SPED 4280*	3	CDIS 3250	3
READ 4015*	6	SPED 4350	12
SPED 4380*	3		<b>27</b>
SPED 4160*	3		
SPED 4000*	3		
Social/Behavioral Sciences	3		
	<b>33</b>		

\*SPED 3010 and admission to teacher education are required before entering these courses.

†Due to the number of changes in this program, it is highly recommended that students work with a special education advisor. An advisor will assist each student to assure that he/she meets both licensure and graduation requirements.

<b>Recommended Curriculum - Comprehensive†</b>			
<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
BIOL 1030 (Nat Sci)	4	ENGL 2030 (Hum/FA)	3
COMM 2200 (Comm)	3	FOED 2110	3
ENGL 1010, 1020 (Comm)	6	Humanities and/or Fine Arts	3
FOED 1110	3	HIST 2010 or 2020, 2030	6
MATH 1010	3	MATH 1420	3
Humanities and/or Fine Arts	3	BIOL 3000	4
HLTH 3300	3	ELED 3300	3
MATH 1410	3	Social/Behavioral Sciences	3
PSCI 1030 or GEOL 1030/1031 (Nat Sci)	4	SPED 3010	3
	<b>32</b>		<b>31</b>
<b>JUNIOR</b>		<b>SENIOR</b>	
ELED 3150*	3	SPED 4120*	3
SPED 3220*	3	SPED 4240*	3
SPED 4140*	3	SPED 3600*	3
SPED 3440*	3	SPED 4160*	3
SPED 4280*	3	CDIS 3250	3
READ 4015*	6	SPED 4320	12
SPED 4380*	3		<b>27</b>
PHED 4910*	3		
SPED 4000*	3		
Social/Behavioral Sciences	3		
	<b>33</b>		

\*SPED 3010 and admission to teacher education are required before entering these courses.

†Due to the number of changes in this program, it is highly recommended that students work with a special education advisor. An advisor will assist each student to assure that he/she meets both licensure and graduation requirements.

### Minor in Special Education

The minor in Special Education requires 18 semester hours as recommended by an advisor in special education as assigned by the chair, Department of Elementary and Special Education.

### Courses in Elementary Education [ELED]

- 1000 Pedagogy Seminar.** One credit. Introduction to computer technology used in elementary school classrooms. Students practice the skills specified by the State of Tennessee 21st Century Classroom guidelines.
- 3050 Creating Learning Environments K-8.** Three credits. Prerequisites: FOED 1110 and 2110. Design, instruction, and evaluation of an integrated reflective curriculum in the elementary grades. Classroom experiences provided.
- 3070 Creating Learning Environments 5-8.** Three credits. Prerequisites: FOED 1110 and 2110. The design, instruction, and evaluation of an integrated middle school curriculum with particular attention to the effect of physical, social, and emotional needs of the middle school student as they relate to middle school instruction. Classroom experiences provided.
- 3150 Mathematics Methodology.** Three credits. Prerequisites: Admission to teacher education program; ELED 3050 or 3070. Prepares pre-service elementary and middle school teachers for teaching mathematics.
- 3300 Instructional Design and Technology in the Elementary School.** Three credits. Prerequisite: Admission to teacher education program. Introduces principles of instructional design with an emphasis on the integration and use of instructional technology to

promote effective classroom instruction. Two hours lecture and two-hour lab.

- 3330 Instructional Design and Technology in the Middle Grades, 5-8.** Three credits. Prerequisite: Admission to teacher education program. Introduces the principles of instructional design with an emphasis on the integration and use of instructional technology to promote effective classroom instruction. Two hours lecture and two-hour lab.
- 4000 Methods and Materials in the Teaching of Writing.** Three credits. An in-depth exploration of elementary students' efforts to become writers. Specific strategies, appropriate assignments, and instructional goals as well as basic writing skills, all based on recent research, presented.
- 4010 Introduction to Language and Literacy in the Elementary School.** Four credits. Prerequisites: Admission to teacher education program; Interdisciplinary Studies majors must also complete ELED 3050. Corequisite: ELED 4020. The acquisition and development of language and literacy, theories behind the teaching of language and literacy, and lifelong literacy skills.
- 4020 Language and Literacy Instruction.** Four credits. Prerequisites: Admission to teacher education program; Interdisciplinary Studies majors must also complete ELED 3050. Corequisite: ELED 4010. Introduces various strategies and techniques for teaching and assessing literacy (reading and writing) in the elementary school.
- 4030 Introduction to Literacy in the Middle Grades.** Four credits. Prerequisites: Admission to teacher education program; Interdisciplinary Studies majors must also complete ELED 3070. Corequisite: ELED 4040. Introduces preservice teachers to the concept of literacy as it relates to middle school learners.
- 4040 Literacy Instruction in the Middle Grades 5-8.** Four credits. Prerequisites: Admission to teacher education program; Interdisciplinary Studies majors must also complete ELED 3070. Corequisite: ELED 4030. Introduces various strategies and techniques for teaching and assessing literacy (reading, writing, speaking, and listening) in the middle school.
- 4050 Classroom Assessment.** Two credits. Prerequisites: Admission to teacher education program; Interdisciplinary Studies majors must also complete ELED 3050 or 3070. Purpose of assessment and the relationship among planning, instruction, and assessment. Interpreting test scores and how those interpretations should be used.
- 4060 Methods of Teaching Social Studies.** Three credits. Prerequisites: Admission to teacher education program; Interdisciplinary Studies majors must also complete ELED 3050 and 3070. Familiarizes students with methods, techniques, and strategies for the teaching of social studies in grades K-8.
- 4110 Directed Teaching, Grades K-8.** Twelve credits. Full-day supervised teaching experience of 15 weeks duration in a public school classroom. Pass/Fail.
- 4260 Problems in Elementary Education.** One to three credits. A problem-oriented course, on or off campus, planned and designed for individuals, a school faculty, school system, or other professional groups, which will provide opportunities for in-service education related to assessed needs. Credit toward an undergraduate degree will be limited to six semester hours.
- 4350 Theory to Practice.** Four credits. Prerequisites: Admission to teacher education program; Interdisciplinary Studies majors must

also complete ELED 3050; must have completed or be presently enrolled in all methods courses. Strategies and techniques for guiding the learning of elementary school children. Development and use of materials in elementary classrooms with emphasis on explanation and experimentation. Laboratory work and weekly seminar.

- 4400 Middle School Instruction.** Four credits. Prerequisites: Admission to teacher education program; Interdisciplinary Studies majors must also complete ELED 3070. Strategies to teach children in the middle grades. Practicum experiences required.
- 4510 The Teaching Internship, Grades 1-8.** Nine credits. Supervised teaching available only to those with at least one year of paid teaching experience in the major in which endorsement is sought. Applicants must meet all prerequisites for student teaching.

## Courses in Reading [READ]

- 3340 Teaching Reading in the Secondary School.** Three credits. Prerequisite: Admission to teacher education. Materials, methods, and techniques for teaching reading at the secondary level, including clinical laboratory experiences. Designed for teachers of language arts.
- 4015 Language and Literacy, K-6.** Six credits. Prerequisites: Admission to teacher education; ELED 3050. Introduces various strategies and techniques for teaching reading and writing in the elementary school.
- 4035 Language and Literacy in the Middle Grades.** Six credits. Prerequisites: Admission to teacher education; ELED 3070. Introduces various strategies and techniques for teaching and assessing literacy in the middle school.
- 4130 Corrective Reading.** Three credits. Prerequisite: Admission to teacher education program; Interdisciplinary Studies majors must also complete ELED 3050 or 3070. Diagnostic skills needed to identify specific reading problems found in typical K-8 classrooms and processes needed to resolve the difficulties.
- 4460 Teaching Reading in the Content Areas.** Three credits. Prerequisite: Admission to teacher education. Emphasis on the teaching of reading in content subjects, such as mathematics, science, and social studies in upper elementary, middle, and secondary schools. Specific suggestions for activities and lesson strategies included.

## Courses in Special Education [SPED]

- 3010 Survey of the Exceptional Child.** Three credits. Introduction to programs and problems of children who deviate from the norm in physical, emotional, mental, and social characteristics. (Required of all individuals who major or minor in education for state licensure purposes.)
- 3210 Practicum in Special Education (Resource Room).** Three credits. Prerequisites: Admission to teacher education; SPED 3010. Participation in the resource room setting with students with mild disabilities. Directed laboratory experiences for a minimum of five hours per week with a weekly seminar required.
- 3220 Practicum in Special Education (Self-Contained).** Three credits. Prerequisites: Admission to teacher education; SPED 3010. Participation in the self-contained classroom setting with students with severe/profound disabilities. Directed laboratory experiences for a minimum of five hours per week with a weekly seminar required.

- 3430 Characteristics of Mildly Disabled Children.** Three credits. Prerequisites: Admission to teacher education; SPED 3010. In-depth study of the resource room and mainstreaming concepts as they relate to special education. Includes ways to set up instruction of resource room students.
- 3440 Characteristics of Severely/Profoundly Disabled Children.** Three credits. Prerequisites: Admission to teacher education; SPED 3010. In-depth study of children with severe/profound disabilities. Includes ways to set up an instructional program for teaching severely/profoundly disabled.
- 3600 Teaching Diverse Learners in General Education Classrooms.** Three credits. Current, effective techniques in inclusive education for children within the full range of exceptionalities. Practical and research-based in concert with the prevailing teacher as researcher. Includes an examination of legal mandates and relevant case law; the use of differentiated instructional techniques across the curricula that provide multiple entry points to learning, responsible models of inclusion, and collaboration; and a focus on adapting curricula, materials and methods to meet the special needs of students with mild, moderate, and severe disabilities.
- 4000 Teaching Reading to Diverse Learners.** Three credits. Prerequisite: Admission to teacher education program or permission of the department. Opportunity for classroom teachers to better meet the needs of struggling readers whether in special education classrooms or in the general education classroom.
- 4120 Techniques and Strategies for Instruction in Special Education (Severe/Profound Disabilities).** Three credits. Prerequisites: Admission to teacher education; SPED 3440. Corequisite: SPED 4140. A practical application of techniques and strategies for teaching students with severe/profound disabilities. Includes teaching technique, theories and approaches, data collection, and classroom and physical management for students with severe/profound disabilities.
- 4140 Curriculum, Methods, and Materials for Special Education (Severe/Profound Disabilities).** Three credits. Prerequisites: SPED 3440; admission to teacher education program; must be taken simultaneously with SPED 4120. Development of skills in planning and implementing programs for students with severe/profound disabilities. Techniques and strategies in practical applications.
- 4150 Techniques, Methods, and Materials in Special Education (Mildly Disabled).** Three credits. Prerequisites: Admission to teacher education; SPED 3430. A practical application of special education techniques and methods for teaching children with mild disabilities. Includes curriculum planning, methods and materials data collection, and classroom management for the student functioning at the mildly disabled level.
- 4160 Educational Assessment of Exceptional Children.** Three credits. Prerequisites: Admission to teacher education; SPED 3430 or 3440. Selection and administration of standardized tests and subtests for the specific purpose of planning an effective remedial program. Includes information gathering techniques, evaluation of this information in selection of tests, and interpretation of information and test scores.
- 4170 Strategic Teaching and Learning in Secondary Special Education.** Three credits. Prerequisites: SPED 3010, 3430, 3600, and admission to teacher education program. Learning strategies instruction and the use of content enhancement routines in special education and general education classrooms with diverse student populations. Includes metacognitive strategies development and application. Task-specific strategies (e.g., learning strat-



egies curriculum), techniques to help teachers develop their own strategies, and using content enhancement routines.

- 4240 Methods and Techniques of Behavior Management.** Three credits. Prerequisite: Admission to teacher education. Overview of various approaches to behavior management. Application of different approaches in variety of settings. Basis of evaluation of various behavior change techniques.
- 4250 Education in the Affective Domain.** Three credits. Prerequisites: Admission to teacher education program or permission of department; SPED 3010 and 3430. Origins of emotional/social problems in children with disabilities and strategies for promoting positive social/emotional outcomes for these students in schools.
- 4260 Problems in Special Education.** One to three credits. A problem-oriented course, on or off campus, planned and designed for individuals, a school faculty, school system, or other professional groups. Will provide opportunities for pre- or in-service education related to assessed needs.
- 4280 Assistive Technology in Special Education.** Three credits. Prerequisites: SPED 3010, 3430 or 3440, 3600, and admission to teacher education program or permission of department. Technology—low tech and high—and how it applies to the needs of school-aged students with disabilities. Assessing and supporting these needs through the delivery of assistive technology.
- 4320 Directed Teaching in Special Education (Self-Contained).** Twelve credits. Full-day supervised teaching experience of 15 weeks duration in a public school classroom. Pass/Fail.
- 4350 Directed Teaching in Special Education (Resource Room).** Twelve credits. Full-day supervised teaching experience of 15 weeks duration in a public school classroom. Pass/Fail.
- 4360 Directed Teaching in Special Education (Speech and Hearing).** Twelve credits. Full-day supervised teaching experience of 15 weeks duration in a public school classroom. Pass/Fail.
- 4380 Collaboration/Consultation.** Three credits. Prerequisites: SPED 3010, 3430 or 3440, and admission to teacher education program. Examines ways the special educator/consultant interacts with general educators, educational systems, communities, families, and students to create appropriate educational services for exceptional learners. Examination of group processes, human behavior related to interaction, and the provision of skills and knowledge critical to effective collaboration and consultation with others about the education of students with special needs.
- 4510 Teaching Internship, Special Education.** Nine credits. Supervised teaching available only for those with at least one year of paid teaching experience in the major in which endorsement is sought. Applicants must meet all prerequisites for student teaching in Special Education. Pass/Fail.

## Graduate Study

The department offers at the graduate level the Master of Education degree with majors in Curriculum and Instruction, Reading, and Special Education with concentrations in Mildly/Moderately Disabled, Preschool Disabled, and Severely/Profoundly Disabled. Graduate minors are available in Curriculum and Instruction, Reading, and Special Education. The Specialist in Education degree is offered with a major in Curriculum and Instruction and with a concentration in Elementary Education. Details may be found in the Graduate Catalog.

# Department of Health, Physical Education, Recreation, and Safety

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**Dianne Bartley, Interim Chair**  
Murphy Athletic Center 111

Anshel, Armstrong, Binkley, Calcari, Caputo, Chambers, Colclough, Connelley, Cunningham, Davis, Edgington, Edwards, Ellis, Erminio, Farley, Fiveash, Hayes, Holden, Ivy, Johns, Jubenville, Kang, Kerr, Lewis, MacBeth, McClellan, McCollum, McGuire, Moore, Motluck, Nance, Neal, Norris, O'Hara-Murdock, Peck, Perry, Peterson, Petrone, Phillips, Ramos, Rhoden, Scarlett, Shelar, Short, Smith, Thompson, Weatherby, Whitehill, Withworth, Winborn

The Department of Health, Physical Education, Recreation, and Safety offers students the opportunity to prepare for professional careers as teachers of health and of physical education, as physical education directors in industry and social agencies, as recreation and leisure service professionals in a wide range of settings, and as health professionals in schools, industry, and allied areas.

Programs in the department lead to the Bachelor of Science degree with majors in Health Education, Athletic Training, Recreation and Leisure Services, and Physical Education which also includes a concentration in Wellness and Exercise Science. Persons majoring in Health Education may select from concentrations in Health Science and Technology, Health Education and Lifetime Wellness, and Community and Public Health. Persons majoring in Recreation and Leisure Services may choose from three concentrations—Outdoor Recreation, Recreation Administration, and Recreational Therapy.

Those interested in a non-teaching career in the field can select courses accordingly. Minors in Athletic Coaching, Athletic Training/Sports Medicine, Driver and Traffic Safety Education, Health, Health and Physical Education, Physical Education, and Recreation are also available.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

## Major in Physical Education

**Teacher Licensure K-12 (includes Lifetime Wellness licensure)**—The major in Physical Education offers preparation for teaching positions in public and private elementary and secondary schools in Tennessee. The major requires BIOL 2030; PHED 1140, 2100, 3300, 3400, 3430, 3720, 3740, 3750, 3780, 3850, 3950, 4340, 4810, 4820, and 4910. Students must take a one-hour activity class from swimming and dance. Students must complete the Professional Education component that includes student teaching. Following is a suggested pattern of study for the Physical Education major. However, regular consultation with the assigned advisor is essential.

### Recommended Curriculum

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
BIOL 1030 (Nat Sci)	4	HUM 2610 (Hum/FA)	3
Humanities and/or Fine Arts	3	Humanities and/or Fine Arts	3
PHED 2100, 3300, 3430,		PHED 3720, 3740, 3780	8
3850	10	Secondary Education minor§	3
FOED 1110, 2110§	6	HIST 2010, 2020, or 2030	6
PHED activity (dance/aquatics)	2	Mathematics	3
	<b>31</b>	COMM 2200 (Comm)	3
		PHED 1140	1
			<b>30</b>

JUNIOR		SENIOR	
BIOL 2030	3	PHED 4820, 4910	6
PHED 3400, 3750, 3950,		Social/Behavioral Sciences	
4340, 4810	15	(2 prefixes)	6
Secondary Education minor§	6	Secondary Education minor§	15
Natural Sciences	4	Directed electives	2
Directed electives	2		<b>29</b>
	<b>30</b>		

§The Secondary Education minor has been revised. Please see page 193 and contact the Educational Leadership Department for information.

### Concentration: Wellness and Exercise Science

The Wellness and Exercise Science concentration offers preparation for positions in corporate, hospital, and public wellness and fitness centers. The program also offers preparation for students seeking master's degrees in exercise science and allied health.

### Recommended Curriculum

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
Mathematics	3	HUM 2610 (Hum/FA)	3
COMM 2200 (Comm)	3	Humanities and/or Fine Arts	3
Natural Sciences (2 prefixes)	8	Social/Behavioral Sciences	3
HLTH 1530 (Soc/Beh Sci)	3	HIST 2010, 2020, or 2030	3
Humanities and/or Fine Arts	3	BIOL 2010	4
HIST 2010, 2020, or 2030	3	N FS 1240	3
PHED activity	1	N FS 3280	3
	<b>30</b>	ATHT 3580	3
		EXSC 3500	3
		Elective	3
			<b>31</b>

JUNIOR		SENIOR	
PHED 4910	3	PHED activity	1
EXSC 4830	4	ATHT 4000	3
EXSC 4810	3	EXSC 4260	3
BIOL 2020	4	EXSC 4010	3
EXSC 4000	3	Electives	5
EXSC 4240	3	EXSC 4250 (final course)	12
ATHC 4060	3		<b>27</b>
Electives	9		
	<b>32</b>		

### Minor in Physical Education

The minor requires 15 semester hours to include PHED 3850 plus 12 hours selected from PHED 3300, 3430, 3400, 3720, 3740, 3750, 3780, 3950, 4340, 4810, 4820, and 4910.

### Minor in Athletic Coaching

The minor requires 15 semester hours including ATHC 4690, 4800, 4060 plus 6 semester hours of professional courses related to specific coaching area(s), officiating, or intramurals.

## Major in Health Education

The major in Health Education provides basic experiences for those interested in preparing for numerous health and health-related professions. Persons majoring in Health Education may choose from a concentration in Health Science and Technology, Community and Public Health, and Health Education and Lifetime Wellness. Those seeking teacher licensure will complete a Secondary Education minor.

### Concentration: Health Science and Technology

The Health Science and Technology concentration is designed to accommodate transfer degrees in allied health or nursing. Students enter the University having completed certification requirements in nursing or one of the allied health fields and receive transfer credit once the required courses are completed. In consultation with an advisor, the student will include the following:

### Recommended Curriculum

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
Mathematics	3	HUM 2610 (Hum/FA)	3
COMM 2200 (Comm)	3	Social/Behavioral Sciences	
Natural Sciences (2 prefixes)	8	(2 prefixes)	6
HLTH 3110	3	Humanities and/or Fine Arts	
N FS 1240	3	(2 prefixes)	6
HUM 2130	3	HIST 2010, 2020, or 2030	6
PHED Activity	1	BIOL 2030	3
	<b>30</b>	HLTH 2600	3
		Minor	3
		PHED activity	1
			<b>31</b>
JUNIOR		SENIOR	
BIOL 3080, 3340	6	Certification/licensure	0-17
HLTH 3300	3	Minor	6
PHED 4810	3	Electives	6
Electives	9		<b>29</b>
Minor	9		
	<b>30</b>		

### Concentration: Health Education and Lifetime Wellness

The Health Education and Lifetime Wellness concentration is designed to prepare lifetime wellness instructors for grades 9-12. In consultation with an advisor, the student will include the following:

#### Recommended Curriculum

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
Mathematics	3	Social/Behavioral Sciences (2 prefixes)	6
COMM 2200 (Comm)	3	Humanities and/or Fine Arts (2 prefixes)	6
Natural Sciences (2 prefixes)	8	HIST 2010, 2020, or 2030	6
HLTH 3320	3	Secondary Education minor§	3
FOED 1110, 2110§	6	HLTH 3110	3
N FS 1240	3	BIOL 2030	3
	<b>32</b>		<b>30</b>
JUNIOR		SENIOR	
HLTH 4260, 4300, 4360, 4400	12	HLTH 4270	3
Secondary Education minor§	6	PHED 4810	3
PHED minor	9	Secondary Education minor§	15
PHED activity	1	PHED minor	6
	<b>28</b>	HLTH elective	3
			<b>30</b>

§The Secondary Education minor has been revised. Please see page 193 and contact the Educational Leadership Department for information.

### Concentration: Community and Public Health

The Community and Public Health concentration is designed to prepare health educators in community and public health strategies so that they may influence changes in public health practice for individuals, organizations, and/or communities. In consultation with an advisor, the student will include the following:

#### Recommended Curriculum

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
Mathematics	3	Social/Behavioral Sciences (2 prefixes)	6
COMM 2200 (Comm)	3	Humanities and/or Fine Arts (2 prefixes)	6
Natural Sciences (2 prefixes)	8	HIST 2010, 2020, or 2030	6
HLTH 3110	3	BIOL 2030	3
N FS 1240	3	HLTH 2600	3
HLTH 3320	3	Minor	3
PHED activity	1	PHED activity	1
	<b>30</b>		<b>31</b>
JUNIOR		SENIOR	
PHED 3250	3	HLTH 4270, 4460	6
HLTH 3300, 4340, 4360, 4440, 4600, 4860	18	PHED 4810	3
Minor	9	Minor	6
	<b>30</b>	Electives	5
		Internship	9
			<b>29</b>

### Minor in Health

The minor in Health requires 15 semester hours including HLTH 3110, 3320, 4400, plus 6 hours of electives to be cho-

sen from other health offerings or courses approved by the department chair.

### Minor in Health and Physical Education

The minor in Health and Physical Education requires 15 semester hours to include HLTH 3110, 4340; PHED 3780, 3850, plus 4 hours of approved electives from health and physical education.

### Major in Recreation and Leisure Services

The major in Recreation and Leisure Services provides knowledge, skills, and experiences for students interested in preparing for positions in the recreation and leisure services profession. The major requires a general core accredited by NRPA which includes REC 3010, 3380, 3520, 3530, 3540, 3560, 4540, 4660, 4890, and 4900 (an extensive internship). Students may choose from concentrations in Recreational Therapy, Outdoor Recreation, or Recreation Administration. Students may choose to pursue a minor or advised electives of approximately 19 credit hours.

### Concentration: Recreational Therapy

Those choosing the Recreational Therapy concentration serve persons with disability and/or health-related issues in a variety of settings. Employment may be sought with clinical, psychiatric, or rehabilitation hospitals, community/transitional agencies, outdoor therapeutic programs, or other health-related agencies. A student graduating with this concentration is eligible to apply for national certification as a Certified Therapeutic Recreation Specialist. Ongoing consultation with an advisor is essential.

#### Recommended Curriculum—Recreational Therapy

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
BIOL 1030 (Nat Sci)	4	Humanities and/or Fine Arts	3
Natural Sciences (CHEM or PHYS)	4	Mathematics	3
Social/Behavioral Sciences (2 prefixes)	6	REC 3380, 3520, 3530	9
COMM 2200 (Comm)	3	HIST 2010, 2020, or 2030	3
PHED activity	1	Advised electives	9
REC 3010	3		<b>30</b>
Humanities and/or Fine Arts	3		
	<b>30</b>		
JUNIOR		SENIOR	
HIST 2010, 2020, or 2030	3	REC 4540, 4660	6
REC 4500, 4499, 3540	9	REC 4510, 4520	6
REC 4480, 4470	6	PSY 2300 or CDFS 3340	3
REC 4890 (Pre-internship)	1	Advised electives	9
REC 3560	3	REC 4900 (Internship)	6
BIOL 2030	3		<b>30</b>
PSY 3230	3		
PHED activity	1		
Advised elective	1		
	<b>30</b>		

### Concentration: Outdoor Recreation

Persons choosing the Outdoor Recreation concentration might establish careers with various natural resource-based agencies such as city, state, and national parks; resource



management agencies; camp settings; and commercial and travel and tourism service providers. Ongoing consultation with an advisor is essential.

#### Recommended Curriculum—Outdoor Recreation

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
BIOL 1030 (Nat Sci)	4	Humanities and/or Fine Arts	3
GEOL 1040 (Nat Sci)	4	Mathematics	3
ANTH 2010, PSY 1410, or SOC 101 (Soc/Beh Sci)	3	REC 3380, 3520, 3530	9
COMM 2200 (Comm)	3	HIST 2010, 2020, or 2030	3
PHED activity	1	Advised electives	9
REC 3010	3		<b>30</b>
GEOG 2000 (Soc/Beh Sci)	3		
Humanities and/or Fine Arts	3		
	<b>30</b>		
JUNIOR		SENIOR	
HIST 2010, 2020, or 2030	3	REC 4540, 4580, 4660	9
REC 3370, 3560, 3540	9	REC 4910 (Internship)	6
REC 3360, 4570, 3390	9	REC 3371, 3570	6
REC 4890 (Pre-internship)	1	Advised electives	10
REC 4490 or HLTH 3300	3		<b>31</b>
BIOL 4060, 4240, ABAS 3630, or GEOG 4530	3-4		
PHED activity	1		
	<b>29-30</b>		

#### Concentration: Recreation Administration

The Recreation Administration concentration offers preparation for careers with a variety of recreation and leisure services agencies. Potential opportunities include employment with public and municipal recreation departments, youth service providers, commercial and tourism agencies, and military recreation. Ongoing consultation with an advisor is essential.

#### Recommended Curriculum—Recreation Administration

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
Natural Sciences (2 prefixes)	8	Humanities and/or Fine Arts	3
ECON 2610 (Soc/Beh Sci)	3	Mathematics	3
P S 1010 or 2010 (Soc/Beh Sci)	3	REC 3380, 3520, 3530	9
COMM 2200 (Comm)	3	HIST 2010, 2020, or 2030	3
Humanities and/or Fine Arts	3	Advised electives	9
PHED activity	1		<b>30</b>
REC 3010	3		
	<b>30</b>		
JUNIOR		SENIOR	
HIST 2010, 2020, or 2030	3	REC 4540, 3371, 4660	9
REC 3370, 3390, 3540	9	REC 4910 (Internship)	6
REC 3560, 4570	6	BMOM 2900 or MGMT 3810 or MKT 3820	3
PSY 2210 or 4380	3	Advised electives	10
PSY 3020	3	PHED activity	1
REC 4500	3	REC 4890 (Pre-internship)	1
BMOM 2900 or MGMT 3810 or MKT 3820	3		<b>30</b>
	<b>30</b>		

#### Minor in Recreation

The minor in Recreation consists of 15 semester hours of coursework in Recreation, 9 hours of which must be taken at MTSU. REC 3010 and 3530 are required plus 9 hours of approved REC electives.

## Major in Athletic Training

The Athletic Training Program consists of four academic years and is a **limited enrollment** program. The program's academic and clinical foundation is based upon the National Athletic Trainer's Association Educational Competencies and the Commission on Accreditation of Allied Health Education Programs accreditation standards and guidelines for entry-level athletic training education programs. The program consists of 120 credit hours, which include General Education, athletic training core courses, and major auxiliary courses. Students enter the program as pre-athletic training majors and must complete the first year of pre-athletic training curriculum consisting of General Education and athletic training prerequisite courses. Students then make formal application for admission to the last three years, which includes 45 hours of athletic training courses. When a student applies for admission and is accepted, the student is then classified as an Athletic Training major. The number of students accepted into the program is limited, making the application process competitive.

Students seeking admission to the program must have a 2.50 cumulative grade point average. The application process includes the following:

- completion of a formal application, which includes three letters of recommendation;
- successful completion of ATHT 2590 and 3580 and BIOL 2010 with a minimum grade of B- in each;
- successful completion of pre-program clinical observations as part of ATHT 2590;
- successful completion of pre-program clinical proficiencies;
- successful completion of a minimum of 24 credit hours;
- interview with Athletic Training program admission committee.

After students have met the admission requirements, acceptance is based upon weighted criteria. Meeting minimal admission requirements does not guarantee admission to the program.

All students must sign a technical standards document as part of the application process. This document is attached to the program application form and is in the Athletic Training education program manual.

Once a student is admitted, he/she must follow a prescribed course of study, which includes both academic and clinical courses. Students must maintain a cumulative grade point average of 2.50. Students must achieve a B- or better in all ATHT courses and PHED 4820 and a C- or better in BIOL 1110 or 1030, 2020; N FS 1240; PHED 4830, 4910; and ATHC 4060 to continue in the program. If a student does not achieve a B- or better in an ATHT course and a C- or better in the above courses he/she must retake the course.

Only admitted students are allowed to register for athletic training clinical courses (ATHT 3000, 3001, 3002, 3003, 4430, 4950, and 4990). These courses require a structured clinical rotation under an approved clinical instructor/supervisor. Clinical courses provide the student with a variety of

athletic training experiences including contact-collision, collision, and non-contact sports in the collegiate, high school, and professional sport environment. Students also take a practicum (ATHT 4430) in athletic training at the completion of their junior year, which requires a clinical rotation in a non-traditional sport environment (i.e., sports medicine clinic, physical therapy clinic). Students must complete all clinical courses with a minimum grade of B- or better. If a student does not complete a clinical course with a B- or better, the student cannot progress to the next clinical course until that course has been retaken and a grade of B- or better has been achieved.

Students must have a minimum overall GPA of 2.50 to graduate from the program. Upon successful completion of the program, graduates are awarded a B.S. in Athletic Training and become eligible to sit for the National Trainer's Association Board of Certification Examination (NATABOC).

#### Recommended Curriculum

##### PRE-ATHLETIC TRAINING PROGRAM

##### FRESHMAN

FALL		SPRING	
ENGL 1010 (Comm)	3	ENGL 1020 (Comm)	3
ATHT 3580 or PSY 1410 (Soc/Beh Sci)	3	ATHT 3580 or PSY 1410 (Soc/Beh Sci)	3
BIOL 1110 or 1030 (Nat Sci)	4	ATHT 2590	3
MATH 1710 (Math)	3	HIST 2010, 2020, or 2030	3
COMM 2200 (Comm)	3	BIOL 2010	4
	<b>16</b>		<b>16</b>

#### Application to Program and Program Admission

##### ADMITTED ATHLETIC TRAINING PROGRAM

##### SOPHOMORE

FALL		SPRING	
ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3	ATHT 3950	3
ATHT 3000	3	ATHT 3001	3
BIOL 2020	4	PHYS 2010/2011 (Nat Sci)	4
N FS 1240	3	Humanities and/or Fine Arts	3
ATHT 4200	3	HIST 2010, 2020, or 2030	3
	<b>16</b>	PHED 1200	1
			<b>17</b>

##### JUNIOR

FALL		SPRING	
ATHT 3960	3	ATHT 4960	3
ATHT 3002	2	ATHT 4970	3
PHED 4910	3	ATHT 3003	3
ATHT 4500	3	Social/Behavioral Sciences	3
Humanities and/or Fine Arts	3	EXSC 4830	4
	<b>15</b>		<b>16</b>

##### SUMMER

ATHT 4000	3
ATHT 4430	3
	<b>6</b>

##### SENIOR

FALL		SPRING	
PHED 4240	3	ATHT 4990	3
PHED 4820	3	ATHC 4060	3
ATHT 4950	3	PHED 4810	3
	<b>9</b>		<b>9</b>

#### Athletic Training Program Costs

Athletic training students pay the same fee schedules as do all other undergraduate students at the University. These fees are described in detail elsewhere in this catalog. Additional expenses incurred by athletic training students include:

1. the cost of a uniform package - varies in price (yearly);
2. liability insurance - \$35 (junior/senior year);
3. membership into the National Athletic Trainer's Association (senior year).

#### Teacher Licensure

Students who wish to pursue licensure in the State of Tennessee must consult with the director of the Athletic Training Program early in the academic process to ensure a smooth transition through this academic program. In order to acquire teacher licensure, the student should expect to work at least one additional academic year in order to obtain teacher certification.

#### Minor in Athletic Training/Sports Medicine

The minor in Athletic Training/Sports Medicine requires 21 semester hours. It is a **limited enrollment program** and all students must make formal application.

#### Minor in Driver and Traffic Safety Education

The minor in Driver and Traffic Safety Education requires 15 semester hours including PHED 3300 and SAFE 4320, 4350, 4850, and 4870.

#### Courses in Physical Education [PHED]

The physical education activity courses are designed to prepare students for future participation in these activities by developing basic competencies in the fundamental skills of each activity. Opportunities for the improvement of skill and the learning of new skills are provided through intermediate and advanced level courses in certain activities.

**1000 Team Games and Conditioning.** One credit.

**1010 Beginning Folk and Square Dance.** One credit.

**1020 Beginning Social Dance.** One credit.

**1040 Beginning Tennis.** One credit.

**1050, 1060 Adapted Physical Activity.** One credit each.

**1080 Beginning Bowling.** One credit. Fee required.

**1100 Beginning Karate.** One credit.

**1110 Casting and Fishing Techniques.** One credit.

**1120 Backpacking and Hiking.** One credit.

**1130 Beginning Bicycling.** One credit.

**1140 Gymnastics.** One credit.

**1150 Beginning Badminton.** One credit.

- 1160 Beginning Archery.** One credit.
- 1170 Beginning Racquetball.** One credit.
- 1180 Beginning Aerobics (Walking/Jogging).** One credit.
- 1190 Aerobic Dance.** One credit.
- 1200 Beginning Weight Training.** One credit.
- 1210 Beginning Basketball.** One credit.
- 1220 Beginning Soccer.** One credit.
- 1230 Team Handball.** One credit.
- 1240 Water Aerobics.** One credit. No swimming skills required.
- 1250 Self Defense.** One credit.
- 1260 Intermediate Bicycling.** One credit.
- 1270 Yoga.** One credit.
- 1280 Beginning Pilates.** One credit. Series of floor exercises developed by Joseph H. Pilates designed to increase strength, flexibility, stamina, and concentration. Focus on postural alignment and body mechanics; facilitates enhancement of kinesthetic sense overall and increases body awareness.
- 1290 Tai Chi.** One credit. All 56 postures of Chen-style tai chi taught in one semester. Includes an overview of the history, philosophy, principles, and benefits of tai chi.
- 1300 Personal Fitness.** One credit. Basic concepts, techniques, and activities needed to design an individual fitness program.
- 1310 Beginning Rugby.** One credit. Introduces the basics of the game of rugby. Coed, non-contact play coupled with classroom analysis.
- 2000 Beginning Wrestling.** One credit.
- 2010 Beginning Modern Dance.** One credit.
- 2020 Beginning Golf.** One credit. Fee required.
- 2030 Tumbling and Trampoline.** One credit.
- 2040 Beginning Swimming.** One credit.
- 2050, 2060 Adapted Physical Activity.** One credit each.
- 2070 Intermediate Swimming.** One credit.
- 2080 Intermediate Modern Dance.** One credit.
- 2090 Intermediate Tennis.** One credit.
- 2100 Effective Living.** Two credits. A general health course designed to enable students to deal more effectively with personal and family health responsibilities as well as emergency situations.
- 2110 Basic Horsemanship—Equitation.** One credit.
- 2120 Scuba Diving.** Two credits. Prerequisite: PHED 2070. Students must pass a swimming proficiency test.
- 2130 Basic River Canoeing.** One credit. Prerequisite: PHED 2070. Students must pass a swimming proficiency test.
- 2140 Basic Lifeguarding.** Two credits. Includes lifeguard training, automated external defibrillation, professional rescuer oxygen administration, and preventing disease transmission.
- 2150 Synchronized Swimming.** One credit. Prerequisite: PHED 2070.
- 2160 Ballet—Primary.** One credit.
- 2170 Ballet—Intermediate.** One credit.
- 2180 Beginning Jazz Dance.** One credit.
- 2190 Beginning Tap Dance.** One credit.
- 2200 Modern Gymnastics.** One credit.
- 2240 Beginning Roller Skating.** One credit. Fee required.
- 2250 Intermediate Bowling.** One credit. Fee required.
- 2260 Basic Rock Climbing.** One credit.
- 2270 Beginning Volleyball.** One credit.
- 2280 Intermediate Tap Dancing.** One credit.
- 2290 Intermediate Roller Skating.** One credit.
- 2300 Beginning Handball.** One credit.
- 2320 Advanced Weight Training.** One credit.
- 2330 Advanced Karate.** One credit.
- 2340 Aquatic Instructor Certification.** One credit.
- 2350 Intermediate Badminton.** One credit.
- 2360 Intermediate Wrestling.** One credit.
- 2380 Intermediate Jazz Dance.** One credit.
- 2400 Intermediate Handball.** One credit.
- 2410 Beginning Softball.** One credit.
- 2420 Intermediate Golf.** One credit.
- 2430 Advanced Volleyball.** One credit.
- 2440 Advanced Swimming.** One credit.
- 2450 Advanced Tennis.** One credit.
- 3250 Workshops in Wellness.** Three credits. Preparation for conducting workshops in a variety of professional settings.
- 3300 First Aid and Safety Education.** Three credits. (Same as HLTH 3300.) Deals with first aid measures, accident prevention, and cardiopulmonary resuscitation. Addresses issues related to drug use/abuse and related acts of violence. Satisfactory completion of the course qualifies the student for American Red Cross Standard and CPR certificates.
- 3400 Motor Learning and Development.** Three credits. Explores the study of motor activity by discussing the development of motor patterns and how we learn to move under various circumstances. Students will become familiar with the concepts, terms, techniques, and activities that will lead to a better understanding of motor development and motor learning.

- 3430 Games, Gymnastics, and Rhythmic Activities for Children.** Two credits. Activities suitable for the needs, abilities, and interests of children and youth throughout the stages of their growth and development.
- 3500 Physical Education for Early Childhood.** Four credits. Principles, teaching strategies, and curriculum activities for young children. Planning age-appropriate physical activities and designing developmentally appropriate motor skill experiences for young children. Extensive practicum experiences in teaching. Two one-hour lectures and two one-hour labs per week.
- 3720 Skills and Techniques of Teaching Fitness Activities.** Three credits. Writing, planning, teaching, and participating in personalized and group fitness programs and the interpretative assessment of related components with the understanding of physiological principles related to exercise. Teaching lifetime wellness activities required in laboratory and field experiences.
- 3730 Skills and Techniques of Teaching Tumbling, Stunts, and Gymnastics.** Three credits. Objectives, materials, and techniques for teaching tumbling and gymnastics. Laboratory and field experiences required.
- 3740 Skills and Techniques of Teaching Individual and Dual Sports.** Three credits. Knowledge of skills, methods, and materials necessary for teaching activities—archery, badminton, golf, tennis, and bowling—which will contribute to lifetime wellness. Laboratory and field experiences required.
- 3750 Skills and Techniques of Teaching Team Games.** Three credits. Skills, methods, and concepts in basketball, soccer, volleyball, softball, and team handball that would allow participants to engage in physical fitness activities into middle adult years. Laboratory and field experiences required.
- 3760 Skills and Techniques of Teaching Aquatics (ARC Water Safety Instructor.)** Three credits. Emphasizes the individual's stroke development, the ability to analyze strokes, and the methods and materials for organizing, teaching, and administering aquatic programs. Laboratory and field experiences required.
- 3780 Curriculum in Physical Education.** Two credits. The role of physical education in society; the characteristics, needs, and interests of students; and the principles necessary for the development of a quality curriculum in physical education and fitness activities that will enhance a lifetime of health and wellness.
- 3810 Directing Intramurals.** Two credits. The organization and administration of intramural programs. The student experiences actual participation in developing and supervising intramural activities.
- 3850 Foundations of Physical Education.** Three credits. Lectures, discussion, and reports introduce students to the importance of physical activity and nutritional values as they relate to lifetime wellness. Study of physical education through its history, philosophy, leadership, and organization including related principles from biology, physiology, sociology, and psychology.
- 3910 Officiating.** Two credits. (Same as ATHC 3910.) Technique and practice in officiating major sports.
- 3950 Adapted Physical Activity.** Three credits. Principles of planning and conducting physical education in order to provide for the special needs, interests, and abilities of exceptional students. Field work in local schools and community agencies.
- 4250 Internship in Exercise Science and Health Promotion.** Twelve credits. (Same as EXSC/HLTH 4250.) Prerequisites: PHED 3250, 4240, 4810, 4830, 4910; HLTH 3300; BIOL 2030; N FS 1240. On-site practical experience in an exercise science/health promotion program.
- 4290 Corrective Therapy—Clinical Training Program.** Nine credits. Provides trainee-students clinical training in a paramedical specialty in order to treat illness and injury. Program is affiliated with the Veterans Administration Hospital, Murfreesboro.
- 4340 Wellness and Healthy Lifestyles.** Three credits. (Same as HLTH/REC 4340.) Developing healthy lifestyles through health appraisal, fitness evaluation, identifying cardiovascular risk factors, and individual exercise prescriptions.
- 4600 Technology Applications.** One credit. Prerequisite: An introductory course in computer literacy or equivalent with instructor permission; corequisite: PHED 4601. Understanding and competency using a variety of technology applications related to the profession. Students required to enroll in corresponding lab during the same semester.
- 4601 Technology Applications Lab.** Two credits. Corequisite: PHED 4600. Investigation and application of profession-specific software and hardware applications.
- 4700 Skills and Techniques of Teaching Rhythmic Activities.** Three credits. Skills in various dance forms, methods and materials, evaluative procedures, experiences in teaching all forms of dance to students at the K-12 level. Lab required.
- 4810 Measurement and Evaluation.** Three credits. (Same as EXSC/HLTH 4810.) Concepts and procedures used for applied measurement and evaluation in health and human performance settings. Basic statistics, reliability and validity, measurement instruments in field and laboratory settings, and the administration of a variety of tests within discipline.
- 4820 Organization and Administration of Physical Education.** Three credits. Provides the basic knowledge necessary to organize and manage a total physical education and sports program. Information concerning the pertinent administration processes including legal responsibilities.
- 4910 Kinesiology.** Three credits. The science of human motion. Emphasis on principles of anatomy, physiology, and mechanics of human activity.
- 4920 Special Problems.** One, two, or three credits. (Same as EXSC/HLTH/REC 4920.) Presentation and discussion of research work in physical education, recreation, health and safety education, or athletics. (A maximum of three semester hours credit may be applied toward a degree.)

## Courses in Health [HLTH]

- 1530 Health and Wellness.** Three credits. Explores the role and importance of health and wellness in the lives of individuals and society in general. Laboratory venues will allow opportunities for assessment of lifestyles, decision-making, and research data on health and wellness. Lectures will provide concepts, information, and data involved in maintaining optimum health and wellness. Two lectures and one laboratory.
- 2600 Introduction to Health Professions.** Three credits. Examines select health professions. Includes admission procedures, training, post-graduate training, licensure, practice options. Designed



to assist students interested in a health career make a more informed choice early in their undergraduate preparation.

- 3110 Personal Health.** Three credits. Personal health in contemporary society; designed specifically for preparation of health educators.
- 3300 First Aid and Safety Education.** Three credits. (Same as PHED 3300.) Deals with first aid measures, accident prevention, and cardiopulmonary resuscitation. Addresses issues related to drug use/abuse and related acts of violence. Satisfactory completion of the course qualifies the student for American Red Cross Standard and CPR certificates.
- 3310 Health Problems of Exceptional Children.** Three credits. Common health problems of all children with emphasis on health problems peculiar to children in various areas of exceptionality. Consideration will be given to identification and referral.
- 3320 Community and Public Health.** Three credits. Basic preparation for health educators in community and public health programs with an emphasis on identifying and solving problems. Concentrates on the role of the health educator in needs assessment, effective communication, and the management of public health concerns.
- 3330 History of Health Education and Health Organizations.** Three credits. Analysis of health education from origins to present. Emphasis on health philosophies, conferences, significant movements, associations, and pioneer health leaders.
- 4250 Internship in Exercise Science and Health Promotion.** Twelve credits. (Same as EXSC/PHED 4250.) Prerequisites: PHED 3250, 4240, 4810, 4830, 4910; HLTH 3300; BIOL 2030; N FS 1240. On-site practical experience in an exercise science/health promotion program.
- 4260 Curriculum and Teaching Methods in Health Education.** Three credits. Curriculum planning and teaching methods for prospective school, community, and public health personnel who aspire to teach health education.
- 4270 Bioethical Issues in Health Education.** Three credits. An analysis of current bioethical issues, problems, needs, trends, and interests in health education.
- 4280 Instructor's Course in First Aid and CPR.** Two credits. Prerequisite: HLTH 3300 or current Red Cross certification in multi-media first aid and CPR or standard first aid. Organization, planning, and teaching American Red Cross safety course. Red Cross instructor certification for successful completion.
- 4300 The School Health Program.** Three credits. Offers preparation for leadership roles in school health services, instruction, and emergency situations, with special emphasis on evaluation.
- 4340 Wellness and Healthy Lifestyles.** Three credits. (Same as PHED/REC 4340.) Developing healthy lifestyles through health appraisal, fitness evaluation, identifying cardiovascular risk factors, and individual exercise prescriptions.
- 4360 Teaching Human Sexuality.** Three credits. Assists teachers and future teachers in developing, implementing, and evaluating human sexuality curricula and programs for schools (K-12).
- 4370 Health and First Aid for Children (Pre-K-3).** Two credits. Skill and knowledge required to maintain a healthy and safe school or day-care environment for Pre-K-3 children.
- 4390 Women's Health.** Three credits. Applies and extends the knowledge base of health care for women and provides students with the knowledge to help them enhance their own and others' health.
- 4400 Drugs and Violence in Health Education.** Three credits. Offers an understanding of the nature of drugs, relationships people form with drugs, and consequences of those relationships. Relationship of drugs to acts of violence considered as well as educational programs addressing issues related to drug use/abuse and acts of violence.
- 4460 Introduction to Epidemiology.** Three credits. Epidemiologic analysis including measures of disease frequency, measures of effect, association and causation, sources of inaccuracy, experimental and observational study designs.
- 4600 Technology Applications.** One credit. Prerequisite: An introductory course in computer literacy or equivalent with instructor permission; corequisite: HLTH 4601. Understanding and competency using a variety of technology applications related to the profession. Students required to enroll in corresponding lab during the same semester.
- 4601 Technology Applications Lab.** Two credits. Corequisite: HLTH 4600. Investigation and application of profession-specific software and hardware applications.
- 4810 Measurement and Evaluation.** Three credits. (Same as EXSC/PHED 4810.) Concepts and procedures used for applied measurement and evaluation in health and human performance settings. Basic statistics, reliability and validity, measurement instruments in field and laboratory settings, and the administration of a variety of tests within discipline.
- 4860 Organization and Administration of Health Education.** Three credits. Theories and models of health education and promotion, needs assessment, program and intervention development (including mission, goals, objectives, and activities of programs), scheduling, budgeting, and evaluating health education programs in schools (K-12) and in the community.
- 4900 Certified Health Education Specialist (CHES) Review.** One credit. Responsibilities and competencies on the Certified Health Education Specialist examination.
- 4920 Special Problems.** One, two, or three credits. (Same as EXSC/PHED/REC 4920.) Presentation and discussion of research work in physical education, recreation, health and safety education, or athletics. (A maximum of three semester hours credit may be applied toward a degree.)

## Courses in Exercise Science [EXSC]

- 3500 Exercise Leadership and Program Planning.** Three credits. Practical experience in adult exercise leadership in individual and group settings. Precautions for safe and effective exercise leadership, instruction, and adult fitness programming based on the guidelines of the American College of Sports Medicine included.
- 4000 Research Seminar in Exercise Science.** Three credits. Prerequisite: EXSC 4830. Development of research ideas, application of computers in searching research databases, methods of research and data collection, and preparation and presentation of a research proposal.

- 4010 Applied Research in Exercise Science.** Three credits. Prerequisite: EXSC 4000. Completion of a research study in exercise science including preparation of Institutional Review Board documents, collection and analysis of research data, preparation of research report, and presentation of research findings.
- 4240 Principles of Exercise Prescription and Assessment.** Three credits. Prerequisites: EXSC 4810, 4830; PHED 4910. Provides students with practical and theoretical experiences in exercise prescription and health/fitness assessment techniques; primarily for healthy population. Upon completion, pursuit of ACSM Health/Fitness Instructor Certification recommended.
- 4250 Internship in Exercise Science and Health Promotion.** Twelve credits. (Same as HLTH/PHED 4250.) Prerequisites: PHED 3250, 4910; EXSC 4240, 4810, 4830; HLTH 3300; BIOL 2030; N FS 1240. On-site practical experience in an exercise science/health promotion program.
- 4260 Exercise Assessment and Prescription for Special Populations.** Three credits. Prerequisite: EXSC 4240. Practical and theoretical experiences in exercise prescription and health/fitness assessment techniques for special populations. Precautions for safe and effective participation in exercise programs identified.
- 4810 Measurement and Evaluation.** Three credits. (Same as HLTH/PHED 4810.) Concepts and procedures used for applied measurement and evaluation in health and human performance settings. Basic statistics, reliability and validity, measurement instruments in field and laboratory settings, and the administration of a variety of tests within discipline.
- 4830 Physiology of Exercise.** Four credits. Prerequisites: BIOL 2030 or 2010 and 2020. Principles of exercise physiology. Acute response and chronic adaptations of the body to physical activity, exercise, and sports participation, and their impact on homeostasis examined.
- 4920 Special Problems.** One, two, or three credits. (Same as HLTH/PHED/REC 4920.) Presentation and discussion of research work in physical education, recreation, health and safety education, or athletics. (A maximum of three semester hours credit may be applied toward a degree.)
- 3810 Directing Intramurals.** Two credits. The organization and administration of intramural programs. Actual participation in developing and supervising intramural activities.
- 3910 Officiating.** Two credits. (Same as PHED 3910.) Technique and practice in officiating major sports.
- 4000 Strength, Conditioning, and Human Performance.** Three credits. Prerequisites: Anatomy, physiology, kinesiology, and weight training; or by permission of instructor. Offers preparation for the National Strength and Conditioning Association's Strength and Conditioning Specialists Certification Examination.
- 4060 Sport Psychology.** Three credits. (Same as PSY 4060.) The application of behavioral principles, motivational research, personality factors, social/psychological findings, cognitive processes, dysfunctional behavior knowledge, and psychometric assessment procedures to the arena of sports. Introduces students to this discipline and provides knowledge to help enhance their own performances and the performances of others.
- 4180 Coaching Speed/Strength Conditioning for Sports.** Three credits. Organizing and developing speed and strength conditioning programs for sports. Setting up and supervising proper methods and techniques in running, weight lifting, and conditioning exercise for athletics today.
- 4220 Coaching Soccer.** Two credits. Theory and practice of soccer fundamentals as well as introduction of offensive and defensive plays.
- 4600 Advanced Coaching of Football.** Two credits. Philosophies of coaching and a detailed study of the master plan of coaching responsibilities.
- 4620 Advanced Coaching of Basketball.** Two credits. Offers the upper-level student an in-depth study of the profession. Philosophies of coaching discussed, along with a detailed study of the master plan of coaching responsibilities.
- 4640 Coaching of Baseball.** Two credits. Theory and practice in the fundamentals as well as reviewing various systems of types of play.
- 4650 Coaching Cross-Country, Track and Field.** Two credits. Theory and practice in fundamentals and skills.
- 4690 Psychology of Coaching.** Three credits. Application of basic psychological principles to everyday coaching situations and problems. Designed to improve communication and motivation between players and coaches.
- 4800 Administration of High School and College Athletics.** Three credits. Deals with administrative concerns of athletic eligibility, contest management, equipment, finances, budgets, safety, layout and maintenance of facilities, public relations, publicity, and current athletic trends.

## Courses in Athletic Coaching [ATHC]

- 3600 Coaching Football.** Two credits. Theory and practice in fundamentals as well as introduction of offensive and defensive types of play. Emphasis on the basic aspects.
- 3610 Coaching Basketball for Men.** Two credits. Theory and practice in the fundamentals as well as introduction of offensive and defensive types of play. Emphasis on the basic aspects.
- 3620 Coaching Golf and Tennis.** Two credits. Prepares the student to teach the fundamental aspects of golf and tennis, with emphasis on adaptation to varied approaches in teaching and coaching.
- 3630 Teaching and Coaching Wrestling.** Two credits. Provides the prospective teacher and coach with the methods and materials needed for teaching and coaching wrestling in the public schools.
- 3660 Coaching of Volleyball and Basketball for Women.** Two credits. Theory and practice in the fundamentals as well as introduction of offensive and defensive types of play. Emphasis on the basic aspects.

## Courses in Athletic Training [ATHT]

- 2590 Psychomotor Skills in Athletic Training.** Three credits. Various topics and techniques with emphasis on the application of supportive and protective taping. A minimum of 60 directed clinical hours of observation required.
- 3000 Clinical A in Athletic Training.** Three credits. Prerequisites: ATHT 2580, 2590. Psychomotor skills used in the application of pro-

tective equipment, emergency procedures, care and treatment of athletic injuries, and use of basic modalities. A minimum of 200 clinical hours under the direct supervision of an approved clinical instructor required.

- 3001 Clinical B in Athletic Training.** Three credits. Prerequisite: ATHT 3000; corequisite: ATHT 3950. Psychomotor skills used in the evaluation and assessment of injuries to the lower extremities. A minimum of 200 clinical hours under the direct supervision of an approved clinical instructor required.
- 3002 Clinical C in Athletic Training.** Three credits. Prerequisite: ATHT 3001; corequisite: ATHT 3960. Psychomotor skills used in the evaluation and assessment of injuries to the upper extremities and thorax. A minimum of 200 clinical hours under the supervision of an approved clinical instructor required.
- 3003 Clinical D in Athletic Training.** Three credits. Prerequisite: ATHT 3002; corequisite: ATHT 4960. Psychomotor skills used in the rehabilitation of musculoskeletal injuries. A minimum of 200 clinical hours under the direct supervision of an approved clinical instructor required.
- 3580 Prevention and Care of Athletic Injuries.** Three credits. Modern principles in the care, prevention, and management of sports injuries.
- 3950 Evaluation and Assessment of Injuries to the Lower Extremities.** Three credits. Prerequisites: ATHT 2580; BIOL 2010. Evaluation and assessment of athletic injuries to the lower extremities and lumbar spine.
- 3960 Evaluation and Assessment of Injuries to the Upper Extremities and Thorax.** Three credits. Prerequisites: ATHT 2580, 3950; BIOL 2010, 2020. Evaluation and assessment of athletic injuries to the upper extremities and thorax.
- 4000 Strength, Conditioning, and Human Performance.** Three credits. Prerequisites: Anatomy, physiology, kinesiology, and weight training; or by permission of instructor. Theories and principles of strength training and conditioning and techniques used to become a strength and conditioning specialist or personal fitness trainer.
- 4080 Alternative Therapies in Athletic Training.** Three credits. Examines the didactic and psychomotor concepts of various alternative and complementary therapies as they relate to the profession of athletic training.
- 4200 Acute Trauma and Emergency Care in Athletic Training.** Three credits. Prerequisite: ATHT 3580. Competencies and proficiencies used in the identification, management, and prevention of acute traumatic conditions in sports requiring emergency care.
- 4430 Practicum in Athletic Training.** Three credits. Prerequisites: ATHT 3003, 4960, and 4970. Athletic training internship in a non-traditional athletic training setting. A minimum of 150 clinical hours under the direct supervision of a clinical instructor required.
- 4500 Therapeutic Medications and Ergogenic Aids in Sports.** Three credits. Principles, theories, and issues of the physiological and psychological response to pharmacological use and abuse of therapeutic medications and ergogenic aids in sports.
- 4950 Pathology of Sport Illness and Consideration of Special Populations.** Three credits. Pathology of special problems and gen-

eral medical conditions of athletes and others involved in physical activity. Includes an athletic training field experience.

- 4960 Rehabilitation Techniques.** Three credits. Prerequisites: BIOL 2010, 2020; ATHT 3950, 3960. Methods and techniques in the selection and application of rehabilitation techniques.
- 4970 Therapeutic Modalities.** Three credits. Prerequisites: BIOL 2010, 2020; PHYS 2010, 2011; ATHT 3950, 3960. Principles, theories, methods, and techniques in the application of selected therapeutic modalities. Includes a laboratory experience of psychomotor skills used in the application of therapeutic modalities.
- 4990 Senior Seminar in Athletic Training.** Three credits. Prerequisites: ATHT 4960, 4970. Offers preparation for the NATABOC examination and discussion of current research in athletic training and sports medicine. Engages students in the process of reviewing, analyzing, discussing, and synthesizing research. Includes an athletic training field experience.

## Courses in Recreation [REC]

- 3000 Leisure in Your Life.** Three credits. Issues relative to choices an individual and society make when utilizing "free" time and resources. Increased understanding of the multi-billion dollar leisure industry and its effect on our personal and collective lives.
- 3010 Introduction to Recreation and Leisure Services.** Three credits. Development and basic concepts of the recreation and leisure services profession. History, definitions, theories, and social psychological concepts as well career opportunities and areas of service delivery.
- 3360 Camping and Camp Counseling.** Three credits. Emphasis on the camp counselor, including discussion of techniques and skills appropriate in various camp settings. Day-to-day management of residential, trip/travel, and special emphasis camps examined. Some off-campus experience.
- 3370 Principles of Outdoor Recreation.** Three credits. Concepts, principles, and practices in various types of park, recreation, and tourism settings. Emphasis on overall and critical sub-systems of the outdoor recreation management system primarily in public land settings.
- 3371 Principles of Interpretation and Resource Education.** Three credits. The study of natural, cultural, and historical interpretation and resource education concepts, principles, and practices applicable to various types of recreation and leisure service settings. Emphasis on interpretation and resource education, why and how to interpret and educate about resources, as well as how to effectively manage interpretation and resource education in varied settings.
- 3380 Introduction to Recreation for Persons with a Disability.** Three credits. Explores issues surrounding recreation opportunities for persons with disabilities. Introduces important issues such as attitudes, advocacy, accessibility, legislation, and the broad range of opportunities in the provision of recreational services for persons with disabilities in our society.
- 3390 Tourism and Commercial Recreation.** Three credits. Introduces the broad sector of recreation and leisure services profession which focuses on delivery of leisure travel and tourism-based recreation services and programs. Particular emphasis placed upon understanding the relationship between commercial rec-

recreation organizations and historical, cultural, and natural resources.

- 3520 Leadership and Group Processes in Recreation and Leisure Services.** Three credits. Conceptual and human relationship skills required of effective professionals. Emphasis on understanding group dynamics and processes associated with leading activities, programs, and personnel in recreation and leisure settings. Key component will be field application of skills.
- 3530 Program Planning in Recreation and Parks.** Three credits. The understanding of participant leisure behavior and needs, and ways organizations create services to respond to these leisure needs.
- 3540 Planning of Park and Recreation Areas and Facilities.** Three credits. Prerequisites: REC 3010 and 3530. Planning principles, techniques, and standards as they relate to the construction of park and recreation areas and facilities.
- 3560 Field Studies in Recreation and Parks.** Three credits. Prerequisites: REC 3010 and 3530. Provides an opportunity for supervised practical application of classroom theory in professional field work.
- 3570 Outdoor Pursuits Education.** Three credits. Concentration on developing student's ability in adventure-based recreation and education. Emphasis placed on learning how to implement an outdoor pursuit experience for oneself and others. Both on- and off-campus experiences will be conducted and may involve day/overnight camping, canoeing, kayaking, rock climbing, rappelling, caving, ropes courses, and orienteering.
- 4340 Wellness and Healthy Lifestyles.** Three credits. (Same as PHED/HLTH 4340.) Developing healthy lifestyles through health appraisal, fitness evaluation, identifying cardiovascular risk factors, and individual exercise prescriptions.
- 4470 Leisure and Aging.** Three credits. Aging relative to the individual, family, peers, and society with an emphasis on leisure. The holistic approach including physical, psychological, social, cultural, environmental, and cognitive aspects. Interdisciplinary approach makes this course ideal for the developing or practicing human service professional.
- 4480 Recreational Therapy Techniques.** Three credits. Exploration of the many activity-based therapeutic interventions currently utilized to alleviate existing health-related problems, maintain current level of functioning, or to assist in overall rehabilitation efforts of the transdisciplinary treatment team.
- 4490 Campus Recreation.** Three credits. For those wishing to acquire a specific and comprehensive knowledge of the recreational sports program and an understanding of its place and value in education and society.
- 4499 Therapeutic Terminology in Recreational Therapy.** Three credits. Designed to provide students with an understanding of therapeutic terminology and the utilization of appropriate terminology for third party reimbursement, treatment teams, counseling, and medical documentation.
- 4500 Introduction to Recreational Therapy.** Three credits. Prerequisite: REC 3010. Explores the profession of recreational therapy, the wide range of disabilities, and the role of intervention in a variety of settings: clinical, community, and transitional. Topics include history, philosophy, professional development/certification, systemic program design, and implementation.
- 4510 Recreational Therapy in Clinical Settings.** Three credits. Increases understanding of recreational therapy in clinical settings, working with persons with health-related issues and/or disability. Concepts of disease and disability, holistic approach, interdisciplinary treatment, assessment, intervention planning and implementation, evaluation, documentation, and third party reimbursement explored.
- 4520 Transitional and Community Recreational Therapy.** Three credits. Addresses issues clients may face when leaving institutions and returning to their communities. Examines the role and provision of recreational therapy services in transitional and community-based settings.
- 4540 Organization and Administration of Recreation.** Three credits. Prerequisites: REC 3010 and nine additional hours of recreation coursework. Provides an opportunity for understanding the duties and responsibilities of an administrator and for developing the ability to perform these in recreation and leisure settings.
- 4570 Outdoor Recreation Workshop.** Three credits. An off-campus course that provides materials and experiences unobtainable in the traditional classroom. Exposure to issues, trends, and concerns relevant to outdoor recreation, resource management, and the delivery of programs and services in outdoor environments. Public, private non-profits, and commercial agencies will be experienced through a series of field trips, talks, groups exercises, and other experiential-based activities.
- 4580 Seminar: Outdoor Recreation and Environmental Issues.** Three credits. Increases awareness of the importance of environmental considerations when planning, managing, or administering outdoor recreation programs. Includes environmental issues and methods of seeking solutions to environmental problems.
- 4590 Readings in Parks and Recreation.** Three credits. In-depth reading; preparation of an annotated bibliography and report. Arrangements for course should be made with the instructor prior to registration.
- 4600 Technology Applications.** One credit. Prerequisite: An introductory course in computer literacy or equivalent with instructor permission; corequisite: REC 4601. Understanding and competency using a variety of technology applications related to the profession. Students required to enroll in corresponding lab during the same semester.
- 4601 Technology Applications Lab.** Two credits. Corequisite: REC 4600. Investigation and application of profession-specific software and hardware applications.
- 4660 Evaluation of Recreation and Leisure Services.** Three credits. Research and evaluation procedures and techniques applicable to assessing recreation and leisure service programs, participants, administrative structures, and resources. Emphasis on beginning and completing a "real-world" evaluation project.
- 4790 Sport and Society.** Three credits. (Same as SOC 4790.) A behavioral approach to the sport and leisure phenomena from the related perspectives of sociology and anthropology.
- 4890 Pre-Internship Seminar.** One credit. Prerequisites: REC 3010 and junior standing. Review of philosophy and professional ethics of recreation and leisure services. Self assessment of student's strengths, limitations, and career aspirations. Preparation of reference files, letters, and resumes. Identification of, application to, and acceptance by department-approved agencies for completion of internship. Pass/Fail.



- 4900 Internship in Therapeutic Recreation.** Six or nine credits. Prerequisites: Departmental approval; minimum 2.25 GPA; REC 3010, 3530, 3540, 4540, and 4890; additional prerequisites: REC 4500, 4510, and 4480 or 4520. Provides practical experience. Student assigned to a field experience to spend an entire semester or two summer sessions in on-the-job training with a recreational agency.
- 4901 Internship in Outdoor Recreation.** Six or nine credits. Prerequisites: Departmental approval; minimum 2.25 GPA; REC 3010, 3530, 3540, 4540, and 4890. Provides practical experience. Student assigned to a field experience to spend an entire semester or two summer sessions in on-the-job training with a recreational agency.
- 4902 Internship in Recreation.** Six or nine credits. Prerequisites: Departmental approval; minimum 2.25 GPA; REC 3010, 3530, 3540, 4540, and 4890. Provides practical experience. Student assigned to a field experience to spend an entire semester or two summer sessions in on-the-job training with a recreational agency.
- 4920 Special Problems.** One, two, or three credits. (Same as EXSC/PHED/HLTH 4920.) Presentation and discussion of research in physical education, recreation, health and safety education, or athletics. (A maximum of three semester hours credit may be applied toward a degree.)

## Courses in Safety [SAFE]

- 4320 Principles of Accident Control.** Three credits. Basic course on principles, concepts, and methodology of the safety movement. Introductory experiences dealing with accident prevention and control efforts recommended for various social institutions and agencies.
- 4350 Automotive Transportation Safety Programs.** Three credits. Safety elements of automotive and other forms of transportation. Federal, state, and local legislation concerning transportation control and design.
- 4850 Driver and Traffic Safety Fundamentals.** Three credits. Prerequisite: Valid driver's license. Introduction to driver and traffic safety education. Primary focus on current concepts related to safe driving.
- 4870 Teaching Driver and Traffic Safety.** Three credits. Prerequisite: SAFE 4850. Designed to develop teaching techniques for laboratory instruction including on-street, driving simulator, and multiple-car-range programs.

## Graduate Study

The department offers the Master of Science in HPER with concentrations available in Health, Physical Education, or Recreation and a Master of Science with a major in Exercise Science and Health Promotion. A doctoral degree also is offered. Degree requirements and a list of courses offered for graduate credit are published in the Graduate Catalog.

# Department of Human Sciences

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**Dellmar Walker, Chair**  
**Ellington Human Sciences 100**

**Belcher, Coleman, Colson, Detmer, Deveau, Emery, Estes, Harrison, James, Lewis, Lowder, Marks, Miller, McNaughton, Oxford, Richey, Robinson, Sheehan-Smith, Simpson, Stogner**

The programs offered by the Department of Human Sciences are accredited by the American Association of Family and Consumer Sciences and provide a broad liberal education along with a specialty to prepare students for a wide spectrum of professions. Career opportunities in human sciences include positions in social agencies, government agencies, community services, business, industry, health services, research laboratories, design, merchandising, teaching, and day care.

Programs leading to the Bachelor of Science degree are offered in five majors: Family and Consumer Studies with concentrations in Family and Consumer Sciences Education, and Child Development and Family Studies; Interior Design; Nutrition and Food Science with a concentration in Dietetics; Textiles, Merchandising, and Design with concentrations in Apparel Design and Fashion Merchandising; and Early Childhood Education which licenses students to teach grades pre-kindergarten through fourth. Students who wish to major in Early Childhood Education but not pursue licensure may contact the Early Childhood Education coordinator to develop an appropriate program of study. The department also offers minors in Human Sciences, Nutrition and Food Science, and Textiles, Merchandising, and Design.

It is an institutional requirement that degree-seeking students complete the General Education requirements. Consultation with the assigned advisor is necessary before each registration.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

## **Major in Family and Consumer Studies**

The curriculum leading to a major in Family and Consumer Studies is designed primarily for preparation in broad areas of the field. Electives may be used to build strong combinations with other fields of interest. A major in Family and Consumer Studies requires the selection of one concentration from the three available plus one minor outside the field of human sciences.

**Concentration: Family and Consumer Sciences Education**

The curriculum for the concentration in Family and Consumer Sciences Education offers preparation for students to teach family and consumer sciences education in grades 5-12. Licensure to teach family and consumer sciences requires a bachelor's degree from an institution approved for the training of teachers in family and consumer sciences and its occupational areas. Occupational endorsements may be added but are not a required part of the major. Those who successfully complete the program are qualified to teach in vocationally reimbursed family and consumer sciences programs as well as non-reimbursed programs. This curriculum also offers preparation for extension service, business, consumer services, and government agencies.

**Recommended Curriculum**

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
COMM 2200 (Comm)	3	HUM 2610 (Hum/FA)	3
Natural Sciences (2 prefixes)	8	Humanities and/or Fine Arts	
FOED 1110§	3	(2 prefixes)	6
H SC 1010	1	Social/Behavioral Sciences	
CDFS 3320	3	(2 prefixes)	6
N FS 1240	3	Mathematics	3
FCSE 2510	3	HIST 2010, 2020, or 2030	6
	<b>30</b>	N FS 3200	3
		FOED 2110§	3
			<b>30</b>

<b>JUNIOR</b>		<b>SENIOR</b>	
H SC 3020	3	H SC 4420	3
CDFS 3340	3	H SC 4000	1
FCSE 3510	3	N FS 3210	3
Secondary Education minor§	6	CDFS 4340	3
H SC 4410	3	TXMD 3100	3
CDFS 4350	3	Secondary Education minor§	18
H SC 3430	3		<b>31</b>
IDES 4620	3		
TXMD 1100	3		
	<b>30</b>		

§The Secondary Education minor has been revised. Please see page 193 and contact the Educational Leadership Department for information.

**Concentration: Child Development and Family Studies**

Child Development and Family Studies is a nationally approved program that offers preparation for a student to become a Certified Family Life Educator (CFLE). Completion of this program leads to career opportunities with family life education, social service agencies, day care programs (care giving and administration), crisis intervention programs, and senior citizen services; in business as consultants; in medical settings as care givers or child life specialists; and as advocates for children and families.

**NOTE:** Students in the CDFS concentration must earn a grade of C or higher in all CDFS and related courses.

**Recommended Curriculum**

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
Humanities and/or Fine Arts		HUM 2610 (Hum/FA)	3
(2 prefixes)	6	COMM 2200 (Comm)	3
MATH 1010 (Math)	3	CDFS 3310, 3330	6
CDFS 2350, 3320	6	HIST 2010, 2020, or 2030	3
H SC 1010	1	PSY 1410 (Soc/Beh Sci)	3
Natural Sciences (2 prefixes)	8	Social/Behavioral Sciences	3
	<b>30</b>	Minor	6
		N FS 1240	3
			<b>30</b>

<b>JUNIOR</b>		<b>SENIOR</b>	
PSY 4600	3	H SC 4000	1
CDFS 4140, 4340	6	CDFS 3390, 4370	6
CDFS 4300 or 4380, 4390	6	CDFS 4380, 4389, 4391,	
CDFS 4310, 4350	6	H SC 4430, 4420,	
Minor	3	N FS 4210, or 4251	3
H SC 4410	3	CDFS 4391, 4380, or 4389	3
HIST 2010, 2020, or 2030	3	CDFS 4360 or 3300	3-4
	<b>30</b>	Minor	6
		Electives	1-2
		H SC 4101	6
			<b>29-31</b>

**Major in Textiles, Merchandising, and Design**

The major in Textiles, Merchandising, and Design leads to entry-level career opportunities in fashion-related industries and requires the selection of one concentration from the two available: Apparel Design and Fashion Merchandising. Textiles, Merchandising, and Design majors and minors must earn a grade of C or higher in all TXMD courses. Students earning a D or F will be required to repeat the course before being allowed to advance in the program.

**Concentration: Apparel Design**

The B.S. degree with a concentration in Apparel Design allows the student to prepare for entry-level positions in the growing area of design, pattern making, and manufacturing. In addition to the major and concentration, a minor in Art or Entertainment Arts Design is required.

**Recommended Curriculum**

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
Natural Sciences (2 prefixes)	8	HUM 2610 (Hum/FA)	3
Social/Behavioral Sciences	3	COMM 2200 (Comm)	3
H SC 1010, 1610	4	HIST 2010, 2020, or 2030	6
TXMD 3130, 3190	6	TXMD 3100, 3150	6
Minor	3	MATH 1010, 1630, or 1710	3
	<b>30</b>	Social/Behavioral Sciences	3
		ART 1030 (Hum/FA)	3
		Minor	3
			<b>30</b>

<b>JUNIOR</b>		<b>SENIOR</b>	
Humanities and/or Fine Arts	3	H SC 4410	3
H SC 3020	3	H SC 4000	1
N FS 1240	3	TXMD 3000, 3070, 3120,	
CDFS 3320	3	3180, 4120	15
TXMD 4110, 3140, 4130,		TXMD 3160, 4170, or	
4160	12	H SC 4043	3
Minor	6	Minor	6
	<b>30</b>	Electives*	2
			<b>30</b>

\*The number of hours required as electives may vary depending upon the courses taken. All students must have a minimum of 120 hours in order to graduate, so the number of hours required as electives may vary.

### Concentration: Fashion Merchandising

The B.S. degree with a concentration in Fashion Merchandising allows the student to prepare for professional positions in fashion retailing, buying, entrepreneurship, wholesaling, fashion promotion, and coordination. In addition to the major and concentration, a minor in one of the following areas is required: Business Administration, Management, Marketing, Mass Communication, or Entrepreneurship.

#### Recommended Curriculum

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
Natural Sciences (2 prefixes)	8	HUM 2610 (Hum/FA)	3
Social/Behavioral Sciences		COMM 2200 (Comm)	3
(2 prefixes)	6	HIST 2010, 2020, or 2030	6
H SC 1010, 1610	4	TXMD 3100; 3150 or 3190	6
TXMD 3130	3	ART 1030 (Hum/FA)	3
MATH 1010, 1630, or 1710		Humanities and/or Fine Arts	3
(Math)	3	N FS 1240	3
	<b>30</b>		<b>27</b>
JUNIOR		SENIOR	
H SC 3020	3	TXMD 3160, 4150	6
TXMD 3070, 4130, 4170	9	H SC 4000, 4410, 4430	7
ACTG 3000, 2110, or 1110	3	TXMD 3000, 3120, 3140,	
CDFS 3320	3	3180, 4120, H SC 4043,	
Elective	3	4103, or CDFS 3330	6
Minor	9	Electives*	2-5
	<b>30</b>	Minor*	6-9
			<b>27-33</b>

\*The number of elective hours required depends upon the choice of minors. All students must have a minimum of 120 hours to graduate, so the number of elective hours may vary.

### Minor in Textiles, Merchandising, and Design

A minor in Textiles, Merchandising, and Design is offered with an option in either fashion merchandising or apparel design. Both options require H SC 1610, TXMD 3100 and 3130. In addition students interested in fashion merchandising are required to take TXMD 3150, 3160, and 4150. Students selecting apparel design are required to take TXMD 3140 and 3190 and select one course from TXMD 3120, 3150, 4110, or 3000.

### Major in Nutrition and Food Science

The major in Nutrition and Food Science offers preparation for careers in community nutrition services; county, state, and federal health departments; food systems management; food processing; food marketing; and quality control.

#### Recommended Curriculum

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	N FS 3200, 3260, 3280	9
MATH 1010 (Math)	3	COMM 2200 (Comm)	3
Humanities and/or Fine Arts		Social/Behavioral Sciences	3
(2 prefixes)	6	HIST 2010, 2020, or 2030	6
SOC 1010 (Soc/Beh Sci)	3	BIOL 2010 (Nat Sci)	4
H SC 1010	1	BIOL 2020	4
N FS 2220	3		<b>29</b>
CHEM 1010 (Nat Sci)	4		
CHEM 1020	4		
	<b>30</b>		
JUNIOR		SENIOR	
H SC 4410, 4430	6	N FS 4240, 4280	6
CDFS 3320	3	N FS 4200, 4220,	
N FS 4210, 4250, 4270	9	ABAS 4200, 4810, or 4820	12
CHEM 2030	4	H SC 4000	1
ENGL 2020 or 2030 or		Minor	9
HUM 2610 (Hum/FA)	3	Elective	2
Minor	6		<b>30</b>
	<b>31</b>		

### Concentration: Dietetics

The Dietetics concentration is a Didactic Program in Dietetics (DPD) accredited by the Commission on Accreditation of Dietetics Education of the American Dietetic Association, 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, (312) 899-4876. The program offers preparation for careers in dietetics as nutritionists, clinical or management dietitians, dietitians in private practice, and consulting dietitians. After completing the degree, students receive a verification statement that DPD requirements have been met, qualifying them to apply for a supervised practice program (dietetic internship). After completion of an internship, students must pass the national examination to become registered dietitians (R.D.) and be eligible for licensure as dietitians/nutritionists (L.D.N.) in the State of Tennessee. Students with baccalaureate degrees in other areas may complete the DPD requirements at MTSU. Transfer students must take a minimum of 15 hours in nutrition and food science at MTSU to include N FS 4200 and 4290.

#### Recommended Curriculum

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	N FS 3200, 3260, 3280	9
Social/Behavioral Sciences	3	COMM 2200 (Comm)	3
Humanities and/or Fine Arts		MATH 1530 (Math)	3
(2 prefixes)	6	HIST 2010, 2020, or 2030	6
SOC 1010 (Soc/Beh Sci)	3	BIOL 2010 (Nat Sci)	4
H SC 1010	1	BIOL 2020	4
N FS 2220	3		<b>29</b>
CHEM 1010 (Nat Sci)	4		
CHEM 1020	4		
	<b>30</b>		
JUNIOR		SENIOR	
H SC 4410, 4430	6	N FS 4200, 4220, 4240,	
CDFS 3320, 3330	6	4280, 4290, 4800	19
N FS 4210, 4250, 4270	9	BIOL 2230	4
CHEM 2030, 3530	8	ACTG 1110 or 3000	3
ENGL 2020 or 2030 or		H SC 4000	1
HUM 2610 (Hum/FA)	3	Elective	2
	<b>32</b>		<b>29</b>



### Minor in Nutrition and Food Science

The minor in Nutrition and Food Science requires 18 semester hours to include N FS 1240, 3200, and 12 hours to be chosen from N FS 3210, 3260, 3280, 4200, 4210, 4220, 4240, 4250, 4260, 4270, and 4280. Required prerequisites must be met for all courses.

### Major in Interior Design

The Interior Design curriculum meets the requirements for allied membership in the American Society of Interior Designers and affiliate membership in the International Interior Design Association. Accredited by the Foundation for Interior Design Education Research, the B.S. degree offers preparation for entry-level positions in residential and contract design firms, sales, design consulting, computer-aided design, and other related design areas. The program includes a major in Interior Design and a professional core in Human Sciences, art, and business.

Interior design majors must maintain a minimum cumulative GPA of 2.75 to continue through the program sequence and earn a grade of C or higher in all IDES courses. Students earning a D or F will be required to repeat the course before being allowed to advance in the program.

Students are strongly encouraged to participate in the internship or co-op programs.

#### Recommended Curriculum

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	IDES 2700, 2710, 3600,	
HIST 1110 or 1120 (Hum/FA)	3	3700, 3710, 3720,	
H SC 1010	1	4700, 4710	24
Natural Sciences (2 prefixes)	8	COMM 2200 (Comm)	3
CDFS 3320	3	ENGL 2020 or 2030 or	
Social/Behavioral Sciences	3	HUM 2610 (Hum/FA)	3
ART 1620	3		<b>30</b>
Mathematics	3		
	<b>30</b>		

JUNIOR		SENIOR	
IDES 3730, 3740, 3750,		IDES 4760, 4770, 4780,	
3760, 4730, 4740, 4750	21	4790	12
ART 1910 or 1920 or 1930	6	HIST 2010, 2020, or 2030	6
TXMD 3100	3	Social/Behavioral Sciences	3
	<b>30</b>	CDFS 3330 or H SC 4430 or	
		N FS 1240	3
		MKT 3820	3
		Humanities and/or Fine Arts	3
			<b>30</b>

### Major in Early Childhood Education

The major in Early Childhood Education is offered by the Department of Human Sciences. The curriculum for the major in Early Childhood Education is designed to prepare teachers in the area of early childhood education and to meet the Tennessee requirements for licensure to teach pre-kindergarten, kindergarten, and first through third grades. Emphasis is placed on the development of the young child within the context of the family and on integrating developmentally appropriate practice within educational settings.\*

\*A grade of C or higher is required for all CDFS courses.

Special comments:

1. Practica should be taken in this order: CDFS 4380, 4300, 4330; ELED 4110.
2. Method courses should be completed in the junior year: ELED 3150 and CDFS 4375.

#### Recommended Curriculum

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	CDFS 3310, 4320, 4370,	
MATH 1010 (Math)	3	3320	12
MATH 1410	3	GEOG 2000 (Soc/Beh Sci)	3
FOED 1110, 2110	6	CHEM 1030 or GEOL 1030	
CDFS 2350	3	or PSCI 1030 or ASTR 1030	
H SC 1010	1	(Nat Sci)	4
BIOL 1030 (Nat Sci)	4	HIST 2010, 2020, or 2030	6
ART 1030 or DANC 1000 or		ANTH 2010 or P S 1010 or	
MUS 1030 or PHIL 1030 or		P S 2010 or AAS 2100	
THEA 1030 (Hum/FA)	6	(Soc/Beh Sci)	3
COMM 2200 (Comm)	3		<b>28</b>
	<b>35</b>		

JUNIOR		SENIOR	
ELED 3050	3	CDFS 4350	3
CDFS 4300	3	SPED 3010	3
MUED 4670	4	CDFS 4330, 4360	6
ELED 3300	3	N FS 4251	3
CDFS 4380	3	H SC 4000	1
PHED 3500	4	CDFS 4110	12
ART 2230	3		<b>28</b>
ELED 3150	3		
ENGL 2020 or 2030 or			
(Hum/FA)	3		
CDFS 4375	4		
	<b>33</b>		

### Minor in Human Sciences

The minor in Human Sciences consists of a minimum of 18 semester hours of courses offered by the Department of Human Sciences elected to meet the concentration needs of the student.

### Courses in Human Sciences [H SC]

#### General

**1010 Career Orientation.** One credit. Development and scope of human sciences as a profession; its wide variety of career opportunities with analysis of interests, aptitudes, proficiency, and education related to success in these areas. Two hours per week until midterm.

**1610 Basic Design.** Three credits. Experience in two-dimensional design. Analysis, experiments, and application of the elements and principles of design as they relate to the immediate environment. **Not accepted for credit toward Interior Design major.** Four hours per week.

**3020 Presentation Techniques.** Three credits. Principles and techniques of effective presentations and demonstrations. Opportunities for experience in presenting demonstrations to the public through mass media. Three hours per week.

**3430 Housing.** Three credits. Evaluation of housing and equipment in terms of family needs, economics, building codes, legislation, and technological developments. Housing alternatives presented and analyzed with emphasis on sociopsychological satisfaction with the residence. Offered once a year.

- 4000 Senior Seminar.** One credit. Prerequisites: H SC 1010 and junior standing. Review of philosophy and professional ethics of human sciences. Preparation of reference files, letters, and resume. One hour per week.
- 4041- Seminar in Human Sciences.** Prerequisite: Permission of department chair. Individual research and/or analysis of contemporary problems and issues in a concentrated area of study. For advanced students.
- 4044** **4041 Human Development-Family Life.** Three credits.  
**4042 Foods-Nutrition.** Three credits.  
**4043 Clothing-Textiles.** Three credits.  
**4044 Housing-Design.** Three credits.
- 4051- Advanced Problems in Human Sciences.** Prerequisite: Permission of department chair. Provides an opportunity for advanced students to do independent study or conduct research in their areas of emphasis. One hour seminar per week plus independent study in
- 4054** **4051 Human Development-Family Life.** Three credits.  
**4052 Foods-Nutrition.** Three credits.  
**4053 Clothing-Textiles.** Three credits.  
**4054 Housing-Design.** Three credits.
- 4060 Readings in Human Sciences.** One to three credits. Prerequisite: Permission of department chair. Selected readings of current trends, developments, and research in human sciences of interest to teachers and students. One hour seminar per week and independent study.
- 4101- Internship.** Six credits. Prerequisites: Departmental approval and minimum 2.25 GPA. Directed and supervised experience designed to acclimate seniors in day-to-day demands, skills, and personal relationships in their major fields. Provides students with professional experiences. Includes a minimum of 300 hours at the worksite plus scheduled seminars.
- 4105** **4101 Human Development-Family Life** (Prerequisites: CDFS 2350, 3310, 3320, 3330, 4300, 4340, 4350, 4360, and 4390).  
**4102 Consumer Services** (Prerequisites: H SC 3020, 4410, 4420, and 4430).  
**4103 Textiles, Merchandising, and Design** (Prerequisites: retail-oriented: TXMD 3100, 3130, 3150 or 3190, 3160, and 4150; design-oriented: TXMD 3100, 3130, 3140, and 3190).  
**4104 Interior Design** (Prerequisites: IDES 3730, 4750).  
**4105 Nutrition and Food Science** (Prerequisites: N FS 3200, H SC 4430, and approval of advisor).
- 4410 Consumer Economics.** Three credits. Consideration of theoretical economics as related to the family. Presents an overview of the choices available and the decision-making process confronting the family in the American economy.
- 4420 Personal and Family Management.** Three credits. Management theories applied to personal and family resources throughout the life cycle. Emphasis on the development of knowledge from which to draw conclusions about the financial elements of life. Offered once a year.
- 4430 Resource Management.** Three credits. Opportunity to identify and integrate the management functions of the human sciences areas. Emphasis on management roles and responsibilities of human sciences professionals, the relationship of the learning organization concept to the human science profession, and the use of quality improvement techniques to solve human sciences-related problems.
- 4450 Professionalism in Consumer Services.** Three credits. The role, functions, and responsibilities of consumer services professionals employed in business, government, and other organizations.

## Courses in Textiles, Merchandising, and Design [TXMD]

- 1100 Clothing I.** Three credits. The fundamental clothing construction processes necessary for advanced work in clothing. Five hours per week. Offered once a year.
- 3000 Computer-Aided Apparel Design.** Three credits. Introduces computer basics and the Windows operating environment; computer-aided design applications related to the apparel and textile industries, including fashion sketching with stylus and graphics tablet, design evolution and line development; current CAD software utilized. Five hours per week. Offered once a year.
- 3070 Fashion Promotion.** Three credits. Prerequisite: H SC 1610. An overview of the sales promotion process in relation to the fashion industry; emphasis on advertising, visual merchandising, special events, and fashion show production. Addresses newest techniques in fashion merchandising and promotion. Students directly involved in planning the production of a major fashion show within the community. Offered once a year.
- 3100 Textiles I.** Three credits. An overview of the textile industry including fibers, yarns, fabric construction, dyeing/printing techniques, and finishes. Emphasis placed on the selection of textile products in relation to end use. Includes labwork involving physical testing. Four hours per week.
- 3120 Textiles II.** Three credits. Prerequisite: TXMD 3100. An overview of quality control using state-of-the-art textile testing equipment. Analysis of fibers and fabrics with emphasis on labwork involving microscopy and chemical and physical testing. Correlation of test results in predicting fabric performance in relation to end use. Four hours per week. Offered once a year.
- 3130 Introduction to the Fashion Industry.** Three credits. How the fashion world operates from planning stages to consumer. Emphasis on production and distribution of fashion goods, current trends, and technological developments. Offered once a year.
- 3140 Flat Pattern Design.** Three credits. Prerequisite: TXMD 3190. Adaptation of commercial sloper patterns to individual proportions, pattern designing and application of principles of design to apparel designing. Five hours per week. Offered once a year.
- 3150 Apparel Selection and Evaluation.** Three credits. Prerequisites: H SC 1610 and TXMD 3100. An overview of the apparel industry structure and the functions of each division. Emphasis on recognizing quality in relation to fabrication, construction, and design of garments. Clothing needs of special populations included. No construction involved. Offered once a year.
- 3160 Fashion Fundamentals.** Three credits. Prerequisite: TXMD 3130. Principles underlying the fashion process and the study of fashion retailing and entrepreneurship. Special emphasis on the dissemination of fashion throughout the world market and to the fashion designers and business leaders in the fashion world today. Offered once a year.
- 3180 Apparel Manufacturing.** Three credits. Prerequisites: TXMD 3100 and 3150. Analysis of apparel manufacturing processes related to specifications, costing, product development, sourcing, time and motion studies, production planning, resource utilization, and quality assurance. Field trips. Offered once a year.
- 3190 Clothing II.** Three credits. Prerequisite: TXMD 1100 or permission of instructor. Advanced clothing construction techniques with emphasis on fitting and finishing. Practical application of acquired knowledge to creative wardrobe planning and selection. Five hours per week. Offered once a year.

- 4110 Fashion Illustration.** Three credits. Prerequisites: H SC 1610; TXMD 3100 and 3150. An overview of fashion illustration techniques allowing skill development of the fashion croquis and garments using various media techniques to communicate fashion ideas, moods, and details. Offered once a year.
- 4120 Advanced Computer-Aided Apparel Design.** Three credits. Prerequisites: TXMD 3000, 3140, and 4110. Provides opportunity to develop advanced computer-aided apparel design skills while using state-of-the-art CAD software. Focuses on developing textile and apparel activities applicable within the industry today. Students will develop a portfolio containing design projects. Five hours per week. Offered once a year.
- 4130 History of Costume.** Three credits. Survey of clothing and design from ancient to modern periods; consideration given to social, economic, and cultural conditions reflected in dress. Offered once a year.
- 4150 Fashion Merchandising.** Three credits. Prerequisite: TXMD 3160. Principles of marketing, retailing, and sales as they apply to the merchandising of fashion goods. Special emphasis on fashion buying, planning, control and computer applications for apparel businesses. Offered once a year.
- 4160 Advanced Apparel Design.** Three credits. Prerequisites: TXMD 3140 and 3190. Advanced apparel design techniques including patterning, draping, drafting, grading, and marker development. Includes computerized patternmaking. Offered once a year.
- 4170 Social Aspects of Clothing.** Three credits. Principles of sociology and psychology applied to the study of clothing and related behaviors. Research methods for studying sociopsychological aspects of clothing included. Offered once a year.

## Courses in Nutrition and Food Sciences [N FS]

- 1240 Principles of Nutrition.** Three credits. Fundamentals of normal nutrition and its relationship to health and physical fitness with emphasis on the scientific, psychological, sociological, and economic aspects of nutrition. (Credit not allowed for Nutrition and Food Sciences major.)
- 2220 Nutrition for the Health Sciences.** Three credits. Elements of scientific, psychological, sociological bases of nutrition and its relationship to prevention and treatment of degenerative diseases. Emphasis on fostering communication between health care practitioners in assessment and implementation of nutrition care. (Nursing and Nutrition and Food Science majors only.)
- 3200 Food Principles.** Three credits. Basic physical and chemical principles, techniques, skills, sanitation, and economics involved in quality food selection, composition, and preparation. Five hours per week. Offered fall only.
- 3210 Meal Management.** Three credits. Functions of management applied to serving nutritionally adequate and aesthetically satisfying meals. Management of human and nonhuman resources in group situations. Five hours per week.
- 3260 Community Nutrition.** Three credits. Prerequisite: N FS 1240 or 2220. Nutrition problems and practices in the community; nutrition programs of state and federal agencies; supervised field experiences; preparation of nutrition education materials.
- 3280 Nutrition in Health Promotion.** Three credits. Prerequisite: N FS 1240 or 2220. Nutrition education resources and skills for individuals working in health promotion and wellness areas including methods for weight management, evaluating popular nutrition fads, dietary assessment, sports nutrition, dietary fat, and cholesterol programs.
- 4090 Field Experience in Foods and Nutrition.** Three credits. Prerequisites: N FS 1240 or 2220, 4200, 4220; permission of instructor; 2.25 GPA. Directed and supervised experience in a specialized area of dietetics or food management. Includes a minimum of 150 hours at the worksite.
- 4200 Diet and Disease.** Three credits. Prerequisites: BIOL 2030 and N FS 4270. Dietary problems in disease and modifications of normal diet to meet dietary requirements of pathological and special conditions. Offered spring only.
- 4210 Nutrition in Aging.** Three credits. Prerequisite: N FS 1240 or 2220. Nutritional needs of elderly individuals and how these requirements are affected by physiological, pathological, and socioeconomic changes associated with aging. Emphasis placed on assessment, nutrition counseling skills, and resources to assist elderly individuals with adequate nutrient intake. Offered once a year.
- 4220 Food Systems Management I.** Three credits. Prerequisites: N FS 3200 and H SC 4430. Principles and production of quantity foods. Emphasis on menu planning and evaluation, production planning, quality control, facilities and equipment, safety, and sanitation. Five hours per week.
- 4240 Experimental Food Study.** Three credits. Prerequisites: N FS 3200 and CHEM 2030 or permission of instructor. Chemical and physical factors affecting the flavor, texture, color, and appearance of food. Emphasis placed on evaluation of sensory qualities of food, using subjective and objective measurements and new food product development. Offered spring only.
- 4250 Child Nutrition.** Three credits. Prerequisite: N FS 1240 or 2220. Nutritional needs during pregnancy, infancy, and childhood related to physical and mental development. Emphasis on cultural, social, and psychological aspects of the development of food patterns and nutrition education resources.
- 4251 Nutrition for the Young Child.** Three credits. Fundamentals of nutrition with emphasis on its relationship to growth, development, and health during the prenatal period, infancy, and childhood.
- 4260 Food Safety Issues from Production to Consumption.** Three credits. Issues impacting food production, food storage and transportation, food processing, and food consumption within food production facilities, the home, and food service facilities. Consumer concerns evaluated based on risk theory and scientific evaluation of safety, including decision-making through critical thinking. Food standards and regulations designed to improve safety of the food supply discussed.
- 4270 Advanced Nutrition.** Three credits. Prerequisite: N FS 1240 or 2220. Advanced study of nutrients, standards for determination of nutrient needs and metabolism of nutrients in the body. Offered fall only.
- 4280 Food Systems Management II.** Three credits. Prerequisite: H SC 4430. Roles and responsibilities of food and nutrition professionals. Emphasis on marketing food and nutrition services, financial management, facilities planning and design, human resource management, work improvement and productivity. Offered spring only.
- 4290 Dietetic Practicum.** Six credits. Prerequisites: N FS 4200 and 4220. Practical preparation in the field of clinical dietetics. Clinical



cal experience provided with the cooperation of Middle Tennessee Medical Center and other facilities. For senior dietetics students only. Offered summer only.

**4800 Diet and Disease Seminar.** One credit. To be taken concurrently with N FS 4200 Diet and Disease. Nutrition and Food Science majors only. Practice in applying the knowledge base acquired in N FS 4200 to structured case studies and development of the critical thinking skills needed to design accurate and systematic nutrition care plans in the clinical setting. Offered spring only.

## Courses in Child Development and Family Studies [CDFS]

**2350 Human Development I.** Three credits. Total development of the child, conception to three years of age. One hour observation per week required.

**3300 Caring Across Generations.** Four credits. Prerequisite: Permission of instructor. A service learning course in which students are trained as certified nurses' assistants (CNAs) including basic care skills as well as interaction with the elderly and their families. Designed to help students assess their level of interest in pursuing careers in working with children and/or the elderly in a medical setting.

**3310 Human Development II.** Three credits. Prerequisite: CDFS 2350 or permission of instructor. Total development of the child from age three through middle childhood. One hour observation per week required.

**3320 Family Relations.** Three credits. Family systems, giving consideration to interpersonal relationships. The structure, function, and development of families in a changing society and in relation to other social institutions.

**3330 Dynamics of Interpersonal Relationships.** Three credits. Skills and knowledge essential to the development and maintenance of interpersonal and work relationships analyzed. Topics focus on self-awareness, communication in various types of relationships, and managing feelings and conflict.

**3340 Life Span Human Development.** Three credits. Emotional, social, physical, and intellectual growth and development of the individual over the life span with a family-oriented emphasis. **Not available to Early Childhood Education and/or Family and Consumer Studies: Child Development and Family Studies majors.**

**3390 Professional Seminar.** Three credits. Prerequisites: Junior standing in the CDFS program and approval of the instructor. A prerequisite to H SC 4101 Internship in CDFS. Professional issues of ethics, networking, social change and public policy relating to children and families to be covered in 50-hour seminar format. Also, a site-approved, 100-hour field placement to be completed.

**4110 Directed Teaching, Grades K-3.** Twelve credits. Prerequisites: Successful completion of professional education requirements of FOED 1110, 2110; ELED 3050, 3150, 4010, 4020; SPED 3010; major requirements in Human Sciences; senior or graduate standing; minimum grade point average of 2.5 overall; admission to teacher education; passing score on the NTE-PRAXIS I-PPST. Full-time semester of supervised teaching experience in two placements in the public schools. Pass/Fail.

**4140 Violence in the Family.** Three credits. (Same as SOC 4140.) The causes, dynamics, and consequences of violence in the fam-

ily. Includes the discussion of violence toward children, spouses, dating partners, siblings, and elders. Emphasizes the social conditions which lead to these types of violence.

**4300 Preschool Practicum.** Three credits. Prerequisites: CDFS 2350, 3310, 4370; admission to teacher education program. Advanced information and skills working with three- and four-year olds. Lab interaction with children; planning and implementation of curriculum. Three hours laboratory plus two-hour seminar per week.

**4310 Human Development III.** Three credits. In-depth study of physical, intellectual, social, and emotional factors influencing development during adolescence and the reciprocal influences between adolescent development and the family system. Emphasis on the ecological perspective to include the relation between adolescent development, families, and society. Summer only.

**4320 Evaluation Strategies and Multicultural Education.** Three credits. Prerequisites: CDFS 2350 and 3310. Must be taken concurrently with CDFS 4370 (Early Childhood Education majors only) or with permission of instructor. A comprehensive examination of assessment and cultural, linguistic, and developmental diversity in young children for the purpose of meeting individual and group needs. Observation and interaction with young children with diverse needs and their families included.

**4330 Primary Practicum.** Three credits. Prerequisites: CDFS 4300; ELED 3050; admission to teacher education program. Advanced knowledge and skills in working with kindergarten and primary children. Practicum students will implement developmentally appropriate curriculum in kindergarten and one other primary grade. Three hours laboratory and two hours seminar per week.

**4340 The Contemporary Family.** Three credits. Prerequisite: CDFS 3320 or permission of instructor. An ecological approach to the study of contemporary issues, problems, questions, and life styles as they relate to families and individuals. Offered fall only.

**4350 Parenting.** Three credits. Knowledge of parenting, parent/child interaction, and home/school/community relationships. Theoretical and applied perspectives.

**4360 Day Care Perspectives.** Three credits. Prerequisite: CDFS 2350 and 3310. Examination of diverse day care settings and their influence on human development. Emphasis on the organization/administration of day care programs. Participation in day care center experiences required. One hour observation per week required.

**4370 Effective Instruction (Birth-5).** Three credits. Prerequisites: CDFS 2350 and 3310. Must be taken concurrently with CDFS 4320 - Early Childhood Education majors only. Knowledge and skills necessary for implementing developmentally appropriate practices in programs serving children birth to age five.

**4375 Literacy in Early Childhood.** Four credits. Prerequisites: CDFS 4320, 4370; SPED 3010; admission to teacher education program. Study of emergent literacy and literacy concepts, birth through grade three. Includes methods of teaching and assessing literacy in a diverse environment. Use of children's media and literature addressed. Three hours lecture plus two-hour experiential field placement per week.

**4380 Infant/Toddler Practicum.** Three credits. Prerequisites: CDFS 2350, 3310, 4370; admission to teacher education program. Advanced knowledge and skills for working with infants and toddlers (birth-3). Lab participation involving interactions with children as well as planning and implementing curriculum required. A three-hour laboratory and a two-hour seminar per week.



- 4390 Families in Later Life.** Three credits. Prerequisites: Human Science majors - CDFS 3320; Sociology majors - SOC 2600 or permission of instructor. Examination of families in later life from an ecological approach with emphasis on family forms and relationships. Spring semester only.
- 4391 Aging Health and Development.** Three credits. Prerequisite: CDFS 4390 or SOC 2600 or permission of the instructor. A service learning opportunity that provides students with understanding of the concepts and application of aging, families in later life, assessment, and gerontological program planning and implementation. May be repeated with permission of instructor.

## Courses in Family and Consumer Sciences Education [FCSE]

- 2510 Home Economics Vocational Education and Curriculum.** Three credits. Orientation to vocational education and to teaching vocational home economics including attention to philosophy legislation, federal and state regulations and standards, curriculum and instruction in consumer-homemaking education, and occupational home economics education.
- 3510 Methods and Materials for Teaching Vocational Home Economics.** Three credits. Prerequisite: Admission to teacher education program. Philosophy of home economics education, principles of teaching, and curriculum construction applied to field. Study, evaluation, and organization of materials. Explanation of instructional materials.
- 4500 Occupational Field Experience.** Three credits each. Prerequisite: Permission of instructor. Directed participation in planned and supervised occupational experiences of 8 hours field experience per week. Must apply previous semester.
- 4501 Care and Guidance of Children.** Three credits.
- 4502 Food Management, Production, and Services.** Three credits.
- 4540 Teaching Home Economics.** One to six credits. Synthesis and application of relevant concepts relating to educational planning, changes and social changes to the development of effective home economics education programs. A maximum of 6 semester hours credit may be applied toward a degree.
- 4550 Curriculum Development.** Three credits. Review of recent advances in home economics education. Analysis and evaluation of selected topics, materials, and methods in terms of their appropriateness for teaching curriculum objectives in home economics.
- 4560 Problems in Teaching Materials.** One to three credits. Prerequisite: Permission of department chair. Application of principles and techniques involved in the selection and preparation of effective teaching materials and visual aids.
- 4570 Occupational Home Economics Seminar.** Three credits. Prerequisite: Consent of instructor. Examination and analysis of program development, execution, and evaluation in a selected occupational area.
- 2710 Interior Design Graphics.** Three credits. Prerequisite: Sophomore standing. IDES 2700 and 2710 must be taken during same semester. Drafting techniques and media commonly used in interior design. Will include orthographic, isometric, axonometric, and oblique drawings, graphic symbols, and entourage. Five hours per week.
- 2930, 2940, 3970, 3980 Cooperative Education.** Three credits. Prerequisite: Permission of instructor. Experiential learning that occurs in real employment situations. Must be taken in sequence or approved by the director of Cooperative Education and IDES coop coordinator.
- 3600 House Design.** Three credits. Prerequisites: IDES 2700 and 2710. Human's shelter: the personal dwelling. Emphasis on the organization and documentation of interior space, light frame construction methods and materials, structure, and systems derived from human needs and activities. Five hours per week.
- 3700 Interior Design Visual Presentations I.** Three credits. Prerequisites: IDES 2700 and 2710; ART 1620. Interior rendering techniques, perspective drawing, sketching, and operation and care of equipment necessary in the effective communication of design solutions. Five hours per week.
- 3710 Principles of Interior Design.** Three credits. Prerequisites: IDES 2700 and 2710. Basic principles, theories, and procedures involved in creative problem solving. Five hours per week.
- 3720 Interior Materials and Finishes.** Three credits. Prerequisites: IDES 2700 and 2710 or concurrent and sophomore standing. Materials and finishes used in the treatment of interior space to be examined in terms of properties, specifications, installation, and manufacturers.
- 3730 Residential Design I.** Three credits. Prerequisites: IDES 3710, 3720, and 3600. Analysis and organization of components, materials, and space relative to human scale and habitability. Influence factors of architecture, function, and economics on the design of interior environment. Emphasis on the data gathering and space planning. Five hours per week. Offered once a year.
- 3740 Interior Design Business Practices.** Three credits. Prerequisite: IDES 3720; must be taken concurrently with IDES 4750. Business practices, ethics, Americans with Disabilities Act, building, fire, and life safety codes as applied to the interior design profession. Offered once a year.
- 3750 Interior Design Visual Presentations II.** Three credits. Prerequisites: IDES 3600. Presentation techniques using computer-aided drafting as applied to the interior design profession. Emphasis on 2-dimensional drawings. Five hours per week.
- 3760 Interior Design Visual Presentations III.** Three credits. Prerequisite: IDES 3750. Advanced computer applications in interior design presentation. Emphasis on 3-dimensional drawings, customizing techniques. Five hours per week.
- 4620 House Furnishings.** Three credits. Design principles; space planning; materials; furniture styles, selection, and buying. Four hours per week. **Not accepted for credit toward Interior Design major.**

## Courses in Interior Design [IDES]

**NOTE: A minimum GPA of 2.75 is a prerequisite for all IDES courses with the exception of IDES 4620.**

- 2700 Interior Design Fundamentals.** Three credits. Prerequisite: Sophomore standing. IDES 2700 and 2710 must be taken during same semester. Introduction to interior design as a profes-

- 4700 History of Interiors.** Three credits. Prerequisite: Sophomore standing. Survey of historic styles from antiquity through 18th Century Europe. Emphasis on major design characteristics of interior architectural and furnishing styles. Offered once a year.
- 4710 Survey of Contemporary Interior Design.** Three credits. Prerequisite: IDES 4700. Survey of American interiors and the development of contemporary interiors from the early nineteenth century to the present with consideration given to style characteristics, cultural influences, designers, and relationships among styles. Offered once a year.
- 4730 Residential Design II.** Three credits. Prerequisites: IDES 3730, 3750, and 4740. Advanced studio experiences in residential interiors. Emphasis on designing for special populations, environmental issues, and large residences. Five hours per week. Offered once a year.
- 4740 Lighting Design.** Three credits. Prerequisites: IDES 3600 and 3710. Principles, terminology, design requirements, and equipment for general and decorative illumination as utilized in the interior environment. Methods of light generation, control, product analysis, selection, and specification. Offered once a year.
- 4750 Introduction to Commercial Design.** Three credits. Prerequisites: IDES 3730 and 4740; must be taken concurrently with IDES 3740. Issues and procedures found in the commercial interior design field; utilization of resources, human factors and client needs in planning and developing design solutions for office spaces. Five hours per week. Offered once a year.
- 4760 Contract Design I.** Three credits. Prerequisites: IDES 3740, 4730, and 4750. Specific human and physical needs encountered in the total design of interiors of a public nature. Emphasis on health care and institutional spaces. Five hours per week. Offered once a year.
- 4770 Contract Design II.** Three credits. Prerequisite: IDES 4760. Advanced studio experience in contract design. Emphasis on problem solving, documentation, and presentation of hospitality spaces. Five hours per week. Offered once a year.
- 4780 Interior Design Portfolio.** Three credits. Prerequisites: IDES 4730 and 4750. Preparation of interior design portfolio, including projects, resumes, and job search skills. Design of retail spaces. Review of NCIDQ exam. Five hours per week. Offered once a year.
- 4790 Interior Construction Documents.** Three credits. Prerequisites: IDES 4750 and 4730. Advanced studio experience addressing residential and commercial interior construction techniques, documentation, and project management. Four hours per week. Offered once per year.

### Graduate Study

A Master of Science in Human Sciences with concentrations in Child Development and Family Studies or Nutrition and Food Science is offered. A minor in Human Sciences is also available. Requirements and a list of the courses offered for graduate credit are published in the Graduate Catalog.

# Department of Psychology

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**Harold Whiteside, Interim Chair**  
**Jones Hall 103**

**Bauer, Belsky, Bernstein, Boyer-Pennington, Brinthaup, Burke, Chen, Compton, Dansby, Davis, Fromuth, Fuller, Hamilton, Hein, Johnson, Jones, Kelly, Kendrick, Kim, Kramer, Langston, Littlepage, McCarthy, Moffett, Musicant, Pennington, Pleas, Quarto, Rambo-Igney, Royal, Rust, G. Schmidt, S. Schmidt, Slicker, Tate, Traugher, Ujchich, Van Hein, West, Whiteside**

The Psychology major is designed for students with a variety of career goals and interests and leads to a Bachelor of Science degree. The Pre-Graduate School concentration is designed for students intending to apply for Ph.D. or master's programs. A minor in Psychology is also available. In addition, the Department of Psychology offers a major and a minor in Industrial/Organizational Psychology. The Industrial/Organizational Psychology major leads to a Bachelor of Science degree. Additional specialized minors are offered in Mental Health Services, Life Span Development, and Behavioral Research.

*A student with more than one major and/or minor in the Department of Psychology cannot use the same coursework for more than one program. Some courses may be used in more than one program, but in no case can a single course be used to satisfy requirements in more than one program.*

Consultation with the assigned advisor is recommended before each registration.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

## Major in Psychology

A common set of core courses is required of all Psychology majors. The specific interests and career goals of each student determine the remainder of the program. The curriculum is arranged to provide familiarity with scientific bases of psychology for students preparing for careers in a variety of professions; the knowledge and skills necessary for graduate work in psychology; and the academic preparation and technical skills for students who plan to work in health-related, business and/or research settings after completing their undergraduate work.

The major in Psychology requires a minimum of 38 semester hours including a course in each of the nine following core areas (with a grade of C- or above), plus 12 additional hours of psychology electives (at least 9 hours upper division). To meet the Mathematics General Education requirement, Psychology majors must take MATH 1710 or 1730.

#### Core Area, Required Courses

General, PSY 1410  
Seminar on Careers in Psychology, PSY 2000  
Social, PSY 2210  
Developmental, PSY 2300  
Statistics, PSY 3020  
Research Methods, PSY 3070  
Abnormal/Personality, PSY 3230 or 3590  
Biopsychology, PSY 4030 or 4240  
Cognition/Learning, PSY 4040 or 4480

#### Recommended Curriculum

##### FRESHMAN

FIRST SEMESTER		SECOND SEMESTER	
ENGL 1010 (Comm)	3	ENGL 1020 (Comm)	3
Natural Sciences	4	Humanities and/or Fine Arts	3
MATH 1710 or 1730 (Math)	3-4	PSY 2210, 2300, 2000	7
PSY 1410 (Soc/Beh Sci)	3	Minor	3
Humanities and/or Fine Arts	3		<b>16</b>
	<b>16-17</b>		

##### SOPHOMORE YEAR

COMM 2200 (Comm)	3	<b>JUNIOR AND SENIOR YEARS</b>	
Natural Sciences	4	Psychology	21
HIST 2010, 2020, or 2030	6	Minor	30
ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3	Electives**	4-8
Social/Behavioral Sciences	3		<b>55-59</b>
ENGL 3500 or 3520*	0-3		
Minor	3		
PSY 3020, 3070	7		
	<b>29-32</b>		

\*Students who do not receive a grade of B- or higher in **both** English composition courses (ENGL 1010 and 1020) will be required to take either ENGL 3500 or 3520.

\*\*Elective hours depend on math course selected and whether student is required to take ENGL 3500 or 3520.

Two minors are required. Minors must be approved by the advisor. It is recommended that at least one minor be carefully chosen to support career plans.

#### Minor in Psychology

The minor in Psychology requires 18 semester hours including PSY 1410; PSY 1420 or a 2000-level course; and four elective courses, at least two of which must be upper division.

#### Concentration: Pre-graduate School

Students who select the Pre-graduate School concentration should be those who will be competitive applicants for Ph.D. or competitive masters programs. GPA is an important consideration for admission to these programs. A sub-committee of the Undergraduate Studies Committee will screen students applying for the concentration.

To graduate with this concentration, students must achieve an overall GPA of 3.25. It is recommended that students apply for this concentration between the completion of 45 and 60 hours.

#### Core Area, Required Courses

PSY 1410 General Psychology  
PSY 2000 Seminar on Careers in Psychology  
PSY 2210 Psychology of Social Behavior  
PSY 2300 Developmental Psychology  
PSY 3020 Basic Statistics for Behavioral Science  
PSY 3070 Research Methods  
PSY 3230 Abnormal Psychology OR  
PSY 3590 Personality  
PSY 4030 Psychology of Sensation and Perception OR  
PSY 4240 Behavioral Neuroscience  
PSY 4040 Introduction to Cognitive Psychology OR  
PSY 4480 Learning Theories  
PSY 4070 Advanced Statistics for the Behavioral Sciences  
PSY 4080 Advanced Research Methods OR  
U H 4950 Honors Independent Research OR  
PSY 3990 Research in Psychology with approval  
Plus 9 additional hours of psychology electives (at least 6 upper division)  
ENGL 3500 Applied Writing OR  
ENGL 3520 Professional Writing

#### Recommended Curriculum

##### FRESHMAN

FIRST SEMESTER		SECOND SEMESTER	
ENGL 1010 (Comm)	3	ENGL 1020 (Comm)	3
Natural Sciences	4	Humanities and/or Fine Arts	3
MATH 1710 or 1730 (Math)	3-4	PSY 2210, 2300, 2000	7
PSY 1410 (Soc/Beh Sci)	3	Minor	3
Humanities and/or Fine Arts	3		<b>16</b>
	<b>16-17</b>		

##### SOPHOMORE YEAR

COMM 2200 (Comm)	3	<b>JUNIOR AND SENIOR YEARS</b>	
Natural Sciences	4	Psychology	24
HIST 2010, 2020, or 2030	6	Minor	12
ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3	Electives*	19-23
Social/Behavioral Sciences	3		<b>55-59</b>
ENGL 3500 or 3520*	0-3		
Minor	3		
PSY 3020, 3070	7		
	<b>29-32</b>		

\*Elective hours depend on math course selected and whether student is required to take ENGL 3500 or 3520.

One minor is required (no restrictions on choice of minor.)

#### Major in Industrial/Organizational Psychology

Industrial/Organizational Psychology deals with a variety of human resource and organizational issues, such as employee selection, training, job analysis, and employee motivation. The major in Industrial/Organizational Psychology is designed to (a) prepare students for entry-level positions in human resource departments of business and industries and (b) provide a background for students wishing to pursue graduate work in psychology, industrial/organizational psychology, or related fields.



The major consists of 16 hours of required psychology foundation courses (which must be completed with a grade of C- or above in each course), 6 hours of elective psychology foundation courses selected from a list, 18 hours of required I/O psychology courses (which must be completed with a grade of C- or above in each course), and 6 hours of elective I/O psychology courses selected from a list. A minor in a related field\* is required. To meet the General Education Mathematics requirement, Industrial Organizational Psychology majors must take MATH 1710 or 1730.

**Required Courses (16 hours)**

- PSY 1410 General Psychology
- PSY 2210 Psychology of Social Behavior
- PSY 3020 Basic Statistics for Behavioral Sciences
- PSY 3070 Research Methods
- PSY 4260 Introduction to Psychological Testing

*Electives (6 hours)*

- PSY 3230 Abnormal Psychology  
OR PSY 3590 Personality  
OR PSY 4610 Adult Psychology and Aging
- PSY 4040 Introduction to Cognitive Psychology  
OR PSY 4070 Advanced Statistics for the Behavioral Sciences  
OR PSY 4480 Learning Theories

**I/O Psychology Foundation (Required) Courses (18 hours):**

- PSY 3320 Introduction to Industrial and Organizational Psychology
- PSY 4360 Organizational Psychology
- PSY 4270 Personnel Selection and Placement
- PSY 4290 Wage and Salary Administration
- PSY 4330 Industrial/Organizational Training and Development
- PSY 4370 Motivation and Work Attitudes

*Electives (6 hours from the following courses):*

- PSY 4380 Group Dynamics
- PSY 4390 Persuasion
- PSY 4720 Multicultural Perspectives in Psychology and Education
- PSY 4730 Apprenticeship: Industrial
- PSY 4340 Human Factors Psychology
- PSY 4350 Safety Psychology

Students who do not receive a grade of B- or higher in **both** English composition courses (ENGL 1010 and 1020) are required to take either ENGL 3500 or 3520.

*\*Students must complete a minor in one of the following fields: Business Administration, Business Law, Industrial Relations, Information Systems, Industrial Technology (Industrial Facilities and Management or Safety courses only), Management, Mass Communication, Political Science (Public Administration), Sociology, Speech, Statistics. Other minors may be approved by the major advisor.*

**Recommended Curriculum**

**FRESHMAN**

**FIRST SEMESTER**

- ENGL 1010 (Comm) 3
- HIST 2010, 2020, or 2030 3
- Humanities and/or Fine Arts 3
- PSY 1410 (Soc/Beh Sci) 3
- MATH 1710 or 1730 (Math) 3-4

**15-16**

**SECOND SEMESTER**

- ENGL 1020 (Comm) 3
- Natural Sciences 4
- HIST 2010, 2020, or 2030 3
- PSY 2210 3
- Humanities and/or Fine Arts 3

**16**

**SOPHOMORE YEAR**

- ENGL 2020 or 2030 or HUM 2610 (Hum/FA) 3
- COMM 2200 (Comm) 3
- Natural Sciences 4
- Social/Behavioral Sciences 3
- PSY 3230 or 3590 or 4610 3
- PSY 3020, 3320 6
- ENGL 3500 or 3520\* 0-3
- Minor 6

**28-31**

**JUNIOR YEAR**

- PSY 3070, 4260 and PSY 4040 or 4070 or 4480 10
- PSY 4360 3
- I/O Psychology 3
- Minor 6
- Electives 6

**28**

**SENIOR YEAR**

- I/O Psychology 15
- Minor 6
- Electives\* 8-12

**29-33**

*\*Elective hours depend on math course selected and whether student is required to take ENGL 3500 or 3520.*

**Minor in Industrial/Organizational Psychology**

The minor in Industrial/Organizational Psychology requires 18 semester hours and a course in statistics (PSY 3020 recommended). Students who are also pursuing a Bachelor of Science degree in Psychology may select Industrial/Organizational Psychology as one of their two minors. *Courses may not count toward both a major and minor.*

**Required Courses (9 hours)**

- PSY 3020 Basic Statistics for Behavioral Science or the equivalent
- PSY 3320 Introduction to Industrial and Organizational Psychology
- PSY 4360 Organizational Psychology

**Elective Courses (9 hours)\***

- PSY 4260 Introduction to Psychological Testing
- PSY 4270 Personnel Selection and Placement
- PSY 4290 Wage and Salary Administration
- PSY 4330 Industrial/Organizational Training and Development
- PSY 4340 Human Factors Psychology
- PSY 4350 Safety Psychology
- PSY 4370 Motivation and Work Attitudes
- PSY 4380 Group Dynamics

*\*NOTE: 12 elective hours will be needed if PSY 3020 is used to fulfill requirements for a major or if a student has had statistics in another department (e.g. Q M 2610). Courses may not count toward both a major and a minor.*

**Minor in Life Span Development**

The Life Span Development minor is designed to provide more specialized instruction in life span and human development issues and is appropriate for students with majors or minors in psychology, social work, sociology, health education, gerontology, women's studies, health care related fields, and similar areas.

**Required Courses (12 hours)**

- PSY 2300 Developmental Psychology  
*(Non-psychology students who have taken SOC/S W 3150 or CDFS 3340 may choose to substitute one of these courses for this requirement.)*
- PSY 4190 Child Psychology  
*(Students who take both CDFS 2350 and 3310 may choose to substitute these for this requirement.)*
- PSY 4210 Adolescent Psychology  
*(Students may choose to substitute CDFS 4310 for this requirement.)*
- PSY 4610 Adult Psychology and Aging

**Elective Courses (choose two, 6 hours)**

PSY 3240 Abnormal Child Psychology  
 PSY 4250 Psychology of Exceptional Children  
 PSY 4440 Close Relationships  
 PSY 4450 Psychology of the Self  
 PSY 4600 Psychosexual Adjustment  
 PSY 4620 Psychology of Women  
 PSY 4630 Death and Dying  
 PSY 4720 Multicultural Perspectives in Psychology and Education

**Minor in Mental Health Services**

The Mental Health Services minor prepares students for entry-level positions in mental health settings. It is designed for students planning to work in mental health, health care, social service, and other settings where they would deal with mental health issues, including careers such as social work, counseling, medicine, gerontology, health education, and child and family services.

**Required Courses (6 hours)**

PSY 3230 Abnormal Psychology  
 PSY 4110 Issues and Ethics in Mental Health Services

**Choose one from the following developmental group:**

PSY 4190 Child Psychology  
 PSY 4210 Adolescent Psychology  
 PSY 4610 Adult Psychology and Aging

**Choose one from the following diversity group:**

PSY 3250 Perspectives on Black Psychology  
 PSY 4600 Psychosexual Adjustment  
 PSY 4620 Psychology of Women  
 PSY 4720 Multicultural Perspectives in Psychology and Education

**Choose one from the following skills group:**

PSY 4440 Behavioral Modification  
 PSY 4470 Theories of Counseling  
 PSY 4650 Health Psychology

**Choose one from the following theory and application group:**

PSY 3240 Abnormal Child Psychology  
 PSY 3590 Personality  
 PSY 4250 Psychology of Exceptional Children  
 PSY 4260 Introduction to Psychological Testing  
 PSY 4460 Psychology of Happiness and Well-Being  
 PSY 4630 Death and Dying

**Recommended but not required:**

PSY 4730, 4740, 4750, or 4760 Apprenticeship (1-3 hours)

**Interdisciplinary Minor in Behavioral Research**

The Behavioral Research minor is designed to provide more specialized instruction in research skills and data analysis and is appropriate for students planning careers emphasizing research and/or quantitative analysis including students majoring in fields such as psychology, sociology, political science, marketing, and mathematics. This minor may be particularly attractive to students wanting to pursue graduate work.

**Statistics Courses (3-7 hours)**

PSY 3020 Basic Statistics for Behavioral Science  
*(lab may be required—see schedule book)*  
 SOC 3050 Data Analysis  
 P S 4000 Quantitative Methods of Research  
 Q M 2610 Statistical Methods I  
 STAT 3130 Applied Statistics

**Basic Research Methods (3-7 hours)**

PSY 3070 Research Methods  
 SOC 3040 Research Methods  
 S W 2630 Interviewing Skills for Social Work Practice  
 S W 3110 Research Methods for Social Work Practice  
 MKT 3930 Marketing Research

**Advanced Statistics (3-6 hours)**

PSY 4070 Advanced Statistics  
 Q M 3620 Statistical Methods II  
 PHED 4810 Measurement and Evaluation  
 STAT 3140 Probability and Statistics

**Advanced Research Methods (3-6 hours)**

PSY 4080 Advanced Research Methods  
 PHIL 4500 Philosophy of Science  
 MKT 4880 Applied Marketing Research

**Advanced Writing (3 hours)**

ENGL 3500 Applied Writing  
 ENGL 3520 Professional Writing

**Courses in Psychology [PSY]**

**1410 General Psychology.** Three credits. Introductory survey course. Includes biological foundations, perception, principles of learning, intelligence, motivation, emotion, human development, personality, social psychology, behavior disorders, and psychotherapy.

**1420 Psychology of Adjustment.** Three credits. Processes of human adjustment, adaptation, and environmental influences. Development of self-understanding, constructive management of emotion and stress, and healthy interpersonal relationships.

**2000 Seminar on Careers in Psychology.** One credit. Prerequisite: PSY 1410. Required for Psychology majors in the first 21 hours of psychology courses. Requirements needed for success in jobs or graduate school. Interest exploration and development of a career timeline and a resume/vita. Students who choose to complete assessment inventories will pay the Counseling and Testing Center an assessment fee of approximately \$20.

**2180 Thinking: Intelligence and Creativity.** Three credits. Psychological approaches to the study of information processing, thinking, and knowing, with emphasis on cognitive style, problem solving, and creative thinking.

**2190 Human Brain, Behavior, and Consciousness.** Three credits. Introduction to the involvement of the brain in behavior and conscious experiences. Altered states of consciousness, mental illness, drug-induced states, sleep, learning, memory, and language. No biology background required.

**2210 Psychology of Social Behavior.** Three credits. Prerequisite: PSY 1410 recommended but not required. Systematic study of social behavior. Includes interaction between people, perception of others, interpersonal attraction, aggression, altruism, conformity, attitudes, and group behavior.

**2300 Developmental Psychology.** Three credits. Broad survey of the biological and environmental factors influencing physical, cognitive, and social development from conception until death. Emphasis on current research and theory. Will not substitute for SOC 3150, S W 3150, or CDFS 3340.

**3020 Basic Statistics for Behavioral Science.** Three credits. Prerequisite: 3 credit hours of college-level mathematics. PSY 3030 may be required. (See schedule book.) Elementary descriptive and inferential statistics and their applications.

- 3030 Laboratory in Psychology.** One credit.
- 3070 Research Methods.** Four credits. Prerequisite: PSY 3020. Analysis of methodological issues in psychological research. Designed to teach skills in the formulation, execution, interpretation, and presentation of psychological investigations. Three hours lecture and one one-hour laboratory.
- 3230 Abnormal Psychology.** Three credits. Prerequisite: PSY 1410. Patterns of maladaptive behavior, including anxiety, depression, schizophrenia, and antisocial behavior.
- 3240 Abnormal Child Psychology.** Three credits. Prerequisite: PSY 1410. Emotional and behavioral disorders in childhood and adolescence including autism and depression and child maltreatment.
- 3250 Perspectives on Black Psychology.** Three credits. Application of psychological principles to the personality development and behavior patterns of African Americans, in light of cultural heritage and contemporary events. Implications for assessment and counseling.
- 3320 Introduction to Industrial and Organizational Psychology.** Three credits. Applications of psychology to business and industry. Topics include employee selection, performance appraisal, training, leadership, motivation, work environment, job design, safety, and work stress.
- 3590 Personality.** Three credits. Historical and contemporary personality theory and research, including the trait, cognitive, and motivational approaches. Topics include personality development, the unconscious, the self, goals, emotions, coping, disorders, and personality change.
- 3750 Introduction to Clinical Psychology.** Three credits. Reviews the historical background, roles, and responsibilities of clinical psychologists and differentiates their duties from other mental health professionals. Introduction to assessment and clinical interventions.
- 3990 Research in Psychology.** One to three credits. Prerequisites: 6 hours of psychology recommended but not required. Supervised research in current topics in psychology. Contact individual faculty members for research possibilities and requirements. May be repeated. (Students majoring in Psychology or the Pre-Graduate School concentration may apply up to 6 hours of credit to the major. Students majoring in I/O Psychology may apply up to 4 hours of credit to the major. Students minoring in Psychology may apply up to 6 hours of credit to the minor.)
- 4000 Psychology Seminar: Honors.** One credit. Representative and integrative study of scientific journals of field. May be taken for a total of three credits.
- 4010 Laboratory in Psychology: Honors.** One credit each. May be repeated. Prerequisite: PSY 3020. Supervised laboratory in an area of psychology related to a content course. The laboratory can only be taken during the semester the student is enrolled in the content course.
- 4020 Apprenticeship: Honors.** One to three credits. Supervised practical experience utilizing psychological principles and tools in an established organization.
- 4030 Psychology of Sensation and Perception.** Three credits. Prerequisite: PSY 1410 or permission of instructor. Perceptual and physiological (sensory) mechanisms involved in vision, hearing, taste, smell, and touch. Perceptual consequences of central nervous system events. Historical perspectives.
- 4040 Introduction to Cognitive Psychology.** Three credits. Information processing approach to the study of cognitive processes: attention, perception, memory, language, reasoning, problem solving, and decision making.
- 4050 Applied Psychopharmacology.** Three credits. Reviews current information on the action and uses of the most important groups of psychoactive drugs. Clinical, legal, and ethical aspects.
- 4060 Sport Psychology.** Three credits. Prerequisite: PSY 1410 or consent of instructor. Application of psychological principles, motivational research, and social/psychological findings to the arena of sports. Theory and application of performance enhancement and teamwork in sports. See ATHC 4060.
- 4070 Advanced Statistics for the Behavioral Sciences.** Three credits. Prerequisites: Grade of B or higher in PSY 3020 or equivalent course. Topics include multiple regression, factorial ANOVA, repeated measures ANOVA, ANCOVA, and categorical data analysis. Offers preparation for graduate-level statistics courses often required in master's and doctoral level programs as well as for employment positions in business and government.
- 4080 Advanced Research Methods.** Three credits. Prerequisites: Grade of B or higher in PSY 3070 or equivalent training (POD), PSY 4070, and ENGL 3500 or 3520. Design, conduct, analyze, and report psychological research. Advanced research conducted individually or in small groups. Offers preparation for graduate-level research required in master's and doctoral programs and for research applications in business and government settings.
- 4100 Counseling and Leadership Seminar in Student Affairs.** Three credits. (Same as SPSE 4100.) Prerequisite: Permission of Student Affairs personnel. Offers student leaders in Student Affairs opportunities to learn and practice skills to help them be more effective leaders. Credit for this class may not be counted toward the student's major or minor.
- 4110 Issues and Ethics in Mental Health Services.** Three credits. Prerequisites: PSY 1410 and 3230. Overview of mental health services that can be provided by the Bachelor's graduate. Offers training necessary for entry-level positions in mental health agencies, emphasizing ethical guidelines and legal issues.
- 4120 Psychology of Criminal Behavior.** Three credits. Survey of theory and research pertaining to criminal behavior, covering topics such as mental illness and crime, criminal homicide, assault, and sex offenses.
- 4130 Laboratory in Psychology.** One credit.
- 4140 Laboratory in Psychology.** One credit.
- 4150 Laboratory in Psychology.** One credit.
- 4170 Laboratory in Psychology.** One credit.
- 4180 Laboratory in Psychology.** One credit.
- 4190 Child Psychology.** Three credits. Prerequisite: PSY 2300 recommended but not required. Intensive research-based overview of child development from conception to puberty, including experiences in observation and/or interaction with children. Cognitive development, language development, peer interaction, moral development, and the contexts of child development.

- 4210 Adolescent Psychology.** Three credits. Prerequisite: PSY 2300 recommended but not required. Physiological, emotional, mental, and social characteristics of adolescent development, including primary factors of influence.
- 4220 Correctional Psychology.** Three credits. Legal, law enforcement, delinquency, and criminal psychology, including psychological evaluation, classification, therapy, and rehabilitation. Special classifications. Field problems. Preventive implications.
- 4240 Behavioral Neuroscience.** Three credits. The role of the brain in those areas which are typically considered by psychology, such as sensory and motor functions, motivation, higher mental functions, and mental disorders.
- 4250 Psychology of Exceptional Children.** Three credits. Identification and etiology of patterns of exceptionality, with consideration given to behavioral manifestations and preventive and correctional programs.
- 4260 Introduction to Psychological Testing.** Three credits. Modern practices in test construction, selection, and application to a variety of situations such as schools, clinics, and businesses.
- 4270 Personnel Selection and Placement.** Three credits. Survey of test, interview, and other variables relating to applicant evaluation, placement, and upgrading.
- 4290 Wage and Salary Administration.** Three credits. Analysis of theory and practice in the administration of compensation. Practices and issues related to job analysis, job evaluation, wage and salary administration, incentive plans, and legal considerations.
- 4330 Industrial/Organizational Training and Development.** Three credits. Examination of training and development methods for industrial and other organizational use. Includes both managerial and worker training. Includes learning, needs assessment, program development, and program evaluation.
- 4340 Human Factors Psychology.** Three credits. Prerequisite: PSY 3320 or consent of instructor. The process of designing for human use. Considers individual differences, visual, auditory, and tactile displays, anthropometry, illumination, noise, humans in motion, and space and environmental studies.
- 4350 Safety Psychology.** Three credits. Survey of basic theories of accident causation, safety research literature, methods of accident prevention, and industrial hygiene.
- 4360 Organizational Psychology.** Three credits. Prerequisite: PSY 1410. Application to human interaction, group processes, and leadership.
- 4370 Motivation and Work Attitudes.** Three credits. Understanding and application of motivation theories, particularly in the workplace. Topics include emotions; work attitudes, such as job satisfaction, organizational commitment, and organizational culture; effects on performance; measurement.
- 4380 Group Dynamics.** Three credits. The functioning of groups. Includes development of group structure, group conflict, cohesion, social influence, leadership, group productivity, group decision making, and growth groups.
- 4390 Persuasion.** Three credits. Prerequisite: PSY 1410. Survey and analysis of theory and research on interpersonal influence. Applications of findings to various areas of human experience.
- 4400 Behavioral Modification.** Three credits. The application of behavioral change principles and evaluation strategies to the solution of individual, classroom, institutional, and organizational behavior problems.
- 4420 Experimental Social Psychology.** Three credits. Prerequisites: PSY 1410, 2210, and 3020. Survey of research rationales, strategies, procedures, and methodologies in social psychology. Ethical concerns and special problems in human subject research.
- 4440 Social Psychology of Close Relationships.** Three credits. Prerequisite: PSY 1410. Theoretical and empirical issues in the scientific study of adult, close relationships from a social psychological perspective: initial attraction, relationship formation, maintenance, and dissolution. (Not a course in the broad area of marriage and the family: See CDFS 3320 Family Relationships and SOC 2500 Marriage and Family.)
- 4450 Psychology of the Self.** Three credits. Historical and contemporary theory and research on the self and self-related topics. Definitional and measurement issues, the self as a structure and a process, self-development across the life span, and factors affecting self-perception and self-evaluation.
- 4460 Psychology of Happiness and Well-Being.** Three credits. Prerequisite: PSY 1410; PSY 2210 and 3230 recommended. Survey of theoretical and research literature in the areas of subjective well-being, happiness, life satisfaction, stress-resistant personality styles, and self-actualization.
- 4470 Theories of Counseling.** Three credits. Integration of the major theories of counseling and psychotherapy and their application.
- 4480 Learning Theories.** Three credits. Survey of research and major theories of learning with emphasis on classical and instrumental conditioning and related topics.
- 4490 Operant Conditioning.** Three credits. Prerequisite: PSY 1410. Philosophy of B.F. Skinner's behaviorism explored in his writings and those of his followers and critics. Current applications of behaviorism in all areas of psychology (child, marriage and family, animal conditioning, mental health, addictions, etc.) also examined.
- 4510 Science and Pseudoscience.** Three credits. Provides a definition of science and explores issues related to that definition. Explores psychology as a science. Evaluation of topics in psychology in the context of the class discussion of science.
- 4600 Psychosexual Adjustment.** Three credits. Psychological, cultural, and biological facets of the human sexual experience. Attitudes and behaviors, variances and dysfunctions, implications and strategies for treatment.
- 4610 Adult Psychology and Aging.** Three credits. Prerequisite: PSY 2300 recommended but not required. A survey of the research on adult development with emphasis on old age. Examines the physical, intellectual, social, vocational, and personality changes during the adult years.
- 4620 Psychology of Women.** Three credits. Psychological impact of the culture on women's attitudes, roles, aspirations, problems, and personality development.
- 4630 Death and Dying.** Three credits. An experiential course covering the folklore of thanatology, the funeral industry, handling grief, counseling the bereaved, and the hospice concept. Objectives include an attempt to view death with equanimity and personal growth from confronting death.



- 4650 Health Psychology.** Three credits. Prerequisite: PSY 1410 or consent of instructor. Psychological factors and principles involved in the study of correlates of health and illness, disease prevention, therapeutic interventions, and rehabilitative strategies.
- 4655 Foundations of Mental Health Counseling.** Three credits. Prerequisites: PSY 1410 and 3230 or equivalent. History, roles, and duties of the professional mental health counselor. Managed care and third party reimbursement issues, administration and supervision of mental health services, and other salient issues relating to the role of the professional mental health counselor. Preparation for graduate-level training in mental health counseling.
- 4660- Psychology Seminar.** One credit each. Representative and integrative study of scientific journals of field. May be taken for a total of three credits.
- 4660 Industrial-Social**  
**4670 Clinical-Personality**  
**4680 General-Experimental**
- 4700 History and Systems of Psychology.** Three credits. Prerequisites: Upper-division status; PSY 1410 recommended but not required. A survey of the history of psychology and an intensive study of current systems of psychology.
- 4720 Multicultural Perspectives in Psychology and Education.** Three credits. Theories and research relative to the education of multi-ethnic/racial minorities. Relation of culture and socialization to learning styles, assessment practices, and counseling considerations.
- 4730- Apprenticeship.** One to three credits. Supervised practical experience utilizing psychological principles and tools in an established organization.
- 4760**  
**4730 Industrial**  
**4740 Child**  
**4750 Pre-clinical**  
**4760 Adolescent**

- 4780 Human Neuropsychology.** Three credits. Prerequisite: PSY 4240 or consent of instructor. Organization and function of specific brain areas and the behavioral deficits and changes resulting from focal and diffuse brain damage.
- 4800 Cognition: Thinking and Reasoning.** Three credits. Research and theory on thinking and reasoning and their roles in complex cognitive processes such as comprehension and higher learning, memory encoding and retrieval, mental model construction, hypothesis testing, goal setting and planning, problem solving, judgment and decision making, intelligence, and creativity.
- 4820 Psychology of Language.** Three credits. Prerequisite: PSY 1410. A cognitive approach to how people learn and use language to communicate. Covers basic psycholinguistics (production, perception, comprehension, and mental representation), language acquisition, and applied psycholinguistics (bilingualism, language disorders, and machine language).
- 4990 Advanced General Psychology.** Three credits. Prerequisite: Senior standing in psychology. Systematic review of general psychology, including history, methods, physiology, sensory systems and perception, learning and memory, developmental, social, and abnormal.

### Honors College

The Department of Psychology offers periodically the following Honors courses: 1410, 1420, 2180, 2210, 2300, 3020, 3070, 3230, 3320, 4000, 4010, 4020, 4040 (lab required), 4190, 4210, 4390, 4470, 4600, 4620, 4630, 4650.

### Graduate Study

Requirements for the Master of Education degree in School Counseling, the Specialist in Education with a major in Curriculum and Instruction, the Master of Arts degree in Psychology, and a list of the courses offered for graduate credit are published in the Graduate Catalog.



# COLLEGE OF LIBERAL ARTS

John N. McDaniel, Dean, Peck Hall 216

Anne Sloan, Associate Dean, Peck Hall 252

Hilary Stallings, Assistant to the Dean, Peck Hall 217

Annette Coorts, Academic Advisor, Jones Hall 115

**Art • English • Foreign Languages and Literatures •  
Geosciences • History • Music • Philosophy • Political  
Science • Social Work • Sociology and Anthropology •  
Speech and Theatre**

The College of Liberal Arts, through its ten academic departments and one school, educates and serves all MTSU students in the University's General Education Program; offers graduate and undergraduate majors, concentrations, minors, interdisciplinary programs, and teacher preparation programs; and provides a wide variety of co-curricular activities including lecture series, concerts, performances, and exhibitions. With diverse programs in the humanities; social and earth sciences; and visual, performing, and communication arts, the college brings together outstanding faculty and students to form a community devoted to lifelong learning, scholarship, research and discovery, and public service. Through both curricular and co-curricular offerings, the college also seeks to enrich the university and regional community with scholarly and cultural activities designed to promote among all university citizens and patrons a broad knowledge of liberal arts disciplines, a commitment to continual intellectual growth, the ongoing improvement of skills that enhance communication, problem-solving, and creative and critical thinking, and a global perspective that supports an appreciation of the cultural diversity within our region and beyond.

Following are the curricula, courses, and specific requirements for majors, concentrations, minors, and interdisciplinary programs offered or coordinated by each of the academic units within the college.



# Department of Art

## Mark Price, Chair Art Barn 115

Baggarly, Buxkamper, Hawke, Higgins, Johnson, Kaufman, Kelker, Koenig, Nagy, C. Nuell, L. Nuell, Phouthavong-Houghton, Price, Recchia, Sickler-Voigt, Tewell, Thayer

Programs in the Department of Art lead to the Bachelor of Science, the Bachelor of Fine Arts, or the Bachelor of Arts degree (pending THEC approval). Persons pursuing the B.S. degree will major in Art Education; this program offers preparation for public school teaching at all grade levels and for graduate-level study in the field of art education.

In order to earn the B.F.A. degree, a student majors in Art and selects one of two concentrations—Graphic Design or Studio. These programs offer preparation for work as a commercial artist/designer and/or for advanced study in a studio area of interest.

Persons pursuing the B.A. degree will major in Art History with concentrations in Modern and Contemporary, Medieval and Renaissance, and pre-Columbian and Latin. This program offers preparation for those who wish to pursue careers in museums, galleries, or arts organizations and/or further study at the graduate level.

Minors in Art, Art History, and Art Education also are available.

Students transferring into department programs may be required to submit a portfolio of artwork for review before transfer credits are approved.

A portfolio review is required to determine if transfer credit from foundations art courses taken at other colleges will substitute for one or more 1000-level foundation art courses at MTSU. Contact the Art Department Office for information on materials that must be submitted, procedures, specific deadlines, etc.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

### Recommended Lower-Division Curriculum

FIRST YEAR - FALL		FIRST YEAR - SPRING	
ENGL 1010 (Comm)	3	ENGL 1020 (Comm)	3
Natural Sciences	4	Natural Sciences	4
ART 1610	3	ART 1630	3
ART 1620	3	ART 1640	3
ART 1910	3	ART 1920	3
	<b>16</b>		<b>16</b>

SECOND YEAR - FALL		SECOND YEAR - SPRING	
COMM 2200 (Comm)	3	ENGL 2020 or 2030 or	3
Mathematics	3	HUM 2610 (Hum/FA)	3
History	3	HIST 2010, 2020, or 2030	3
Entry-level studios	6	Social/Behavioral Sciences	3
	<b>15</b>	Entry-level studio	3
		Second-level studio	3
			<b>15</b>

## Major in Art

The B.F.A. program is designed for those who wish to work professionally as artists in art-related fields and/or work toward a graduate degree (M.F.A.). All students pursuing a major in Art are required to complete the General Education requirements as specified by the department. Students should consult with their advisors each semester in order to plan their schedules of courses.

Students electing the Studio concentration choose a studio emphasis from ceramics, metals, painting, printmaking, or sculpture. Students in the Studio concentration must take 3 to 6 hours in directed problems leading to a senior exhibit. This is listed in the course descriptions as level VI in each area.

### Concentration: Studio

The Studio concentration requires the completion of a minimum of 79 semester hours in art-related courses including

- 33 hours of major core courses: ART 1610, 1620, 1630, 1640, 1910, 1920, 1930, and 3 additional hours as advised by department; PHIL 4100; and two upper-division art history courses;
- 18 hours from a single studio area: Levels I, II, III, IV, V, and VI: chosen from ceramics, painting, printmaking, or sculpture;
- 19 hours of guided electives consisting of
  - Studio electives: 10 hours selected from entry- and upper-level courses in one or more of the following studio areas: book arts, ceramics, drawing, printmaking, painting, and sculpture.
  - Art electives: 9 hours selected from entry- and upper-level courses in one of the following areas: book arts, ceramics, computer art, drawing, graphic design, printmaking, painting, art history, and sculpture. Courses should be relevant to the student's area of emphasis.
- Art minor: 9 hours selected from entry- and upper-level courses in one of the following areas: book arts, ceramics, computer art, drawing, graphic design, printmaking, painting, art history, and sculpture.

### Studio Portfolio Review

Each candidate for the B.F.A. degree with a Studio concentration must sign up for and submit representative samples of his or her art coursework to a Studio Portfolio Review and appear in person to discuss his/her progress toward the B.F.A. This will take place at the first scheduled Studio Portfolio Review that is immediately prior to or immediately following the student's successful completion of ART 1610, 1620, 1630, 1640, two art history courses, and four studio courses.

### Concentration: Graphic Design

The Graphic Design concentration requires the completion of a minimum of 79 semester hours in art and graphic-related courses including

- 19 hours of foundation courses: ART 1610, 1620, 1630, 1640, 1910, 1920, and 1 additional hour as advised by department



2. 18 hours of core graphic design courses taken in the following sequence: ART 2310, 3320, 2320, 3330, 4310, 4320
3. 3 hours of ART 4330 - Internship, which may be taken concurrently with ART 4320
4. 15 hours of specified graphic-related electives:
  - A. ART 3930 or 4390
  - B. ART 3550 or 3770
  - C. ART 4280 or 4290
  - D. PHOT 2050 or ADV 3020
  - E. PHOT 3200 or ART 3610 or 3620
5. 9 hours of specified studio electives, complete 3 courses from:
  - A. ART 2130 or 3140
  - B. ART 2510
  - C. ART 3650 or 2620
  - D. ART 2710
  - E. ART 2810 or 3820
6. 6 hours of upper-division art history
  - A. ART 4920
  - B. One additional upper-division course in art history
7. 9 hours of a minor in art approved by the advisor and chosen from the approved areas

The Graphic Design concentration within the Art Department includes a candidacy program based on successful completion of certain required classes with specified minimum grade point expectations and performance for retention in Graphic Design. The candidacy program imposes requirements in several areas:

1. Admission to most upper-division professional courses in the Graphic Design concentration will be restricted to students admitted to candidacy.
2. All students in the Graphic Design concentration should apply for admission to candidacy at the end of the semester in which they will have completed 45 semester hours of coursework.
3. At a minimum, students in the Graphic Design concentration must have completed **each** of the following courses with a grade of C (2.00) or better before applying for candidacy:
  - ART 1610 Two-Dimensional Design
  - ART 1620 Drawing I
  - ART 1630 Three-Dimensional Design
  - ART 1640 Drawing II
  - ART 2310 Graphic Design Technologies
  - ART 3320 Typographic Design
  - ART 2320 Word and Image
4. At a minimum, students applying for candidacy in the Graphic Design concentration must have an overall GPA of at least 2.00 on all university-level coursework.
5. Students applying for candidacy in the Graphic Design concentration must twice submit for juried review a portfolio containing work completed in the courses listed in item 3 above. (The majority of the work in the portfolio must be two-dimensional.) The first portfolio review will follow completion of ART 3320 and a second review will follow completion of ART 2320. If after the second portfolio review a student is not admitted to candidacy the student may, with modifications, submit the portfolio one additional time before being asked to find another major or concentration.

### Career Opportunities in Art

Students interested in career opportunities in art should consult their advisors for information regarding preparatory MTSU courses, graduate programs, certification, etc., for careers in arts administration and art therapy.

### Minor in Art

A general minor in Art requires the following sequence of courses: ART 1610, 1620, 1630, 1640, and two studio courses, one of which must be upper division and taken in residence.

Students majoring in Mass Communication programs take the following sequence, as requested by that college, for the Art minor: ART 1610, 1620, 1630, and 1640 plus two other studio or art history courses, one of which must be upper division and taken in residence.

### Major in Art Education

The B.S. program in Art Education is designed for those who wish to teach in public schools. All students pursuing a major in Art Education are required to complete the General Education requirements as specified by the department and as required for certification. Students should consult with their advisors each semester in order to plan their schedule of courses.

Students majoring in Art Education minor in Secondary Education.

*NOTE: The Secondary Education minor has been revised. Please see page 193 and contact the Educational Leadership Department for information.*

### Art Education

The major in Art Education requires the completion of a minimum of 53 semester hours in the Art Department.

1. ART 1610, 1620, 1630, 1640, 1910, 1920, 1930, 2220, 3210, and 3220;
2. 18 hours from ART 3550; 2130, 3140 or 4000; 2510, 3520; 2710, 3720, 2810, 3820, to include one series of two courses in a two-dimensional area and one series of two courses in a three-dimensional area plus an additional pair of either two-dimensional (2150 and 3550 or 2130 and 3550 or 2710 and 3720) or three-dimensional (2510 and 3520 or 2810 and 3820) offerings;
3. 5 hours of upper-division art history.

### Minor in Art Education

The minor in Art Education requires a minimum of 22 semester hours in art as recommended by the department chair.

### Art Department Slide Library

Located in Saunders Fine Arts 309, the Slide Library is a resource for the art faculty and for the University population at large. The library's 50,000 slides include examples of art from the prehistoric to contemporary eras. Faculty members may borrow slides for two days. Students may borrow slides for one day for class presentations.

Hours are Monday through Thursday from 8:00 a.m. until 4:00 p.m. Contact slide librarian at 898-5532.

### General Departmental Information

1. Students majoring in the department, or who are taking one or more art courses, may be required to attend various extracurricular activities including, but not limited to, exhibitions, films, and lectures during the semester.



2. The Art Department reserves the right to retain certain selected examples of student work for teaching purposes and as a part of its permanent collection.
3. Students will be responsible for the purchase of certain materials in many courses as required by the instructor.
4. Various courses offered within the department may require of all students enrolled the effective use of communication skills, both written and verbal, which reflect university-level abilities.
5. A minor with an emphasis in drawing will be permitted only if 9 hours are taken **beyond** ART 1620, 1640, and 2620.
6. Students majoring in Art with a Studio concentration are required to participate in a Studio Portfolio Review.
7. ART 4000 (Workshop) and 4640 (Advanced Art Problems) may be taken for a maximum of 9 hours each, no more than 3 hours per semester, and still count for undergraduate credit and graduation.
8. Crafts-media courses, levels I and II, which include book arts and clay may be taken without prerequisites by NON-ART MAJORS when so designated in the class schedule.
9. All courses are offered on a laboratory basis except ART 1910, 1920, 1930, 2900, 3800, 3870-3872, 3880, 3990, 4800, 4890, 4900, 4910, 4920, 4940, and 4960.
10. The Art Department affirms that a theoretical and working understanding of the historical meanings and studio applications of the human image are critical in the education of visual art students. To develop such an understanding, Art Department courses often utilize images of clothed and unclothed human figures and, in certain studio classes, live nude models.

## Major in Art History\*

The B.A. program in Art History is designed for those who wish to pursue careers in museums, galleries, or arts organizations and/or pursue further study at the graduate level. All students pursuing a major in Art History are required to complete the General Education requirements as specified by the department. Students should consult with their advisors each semester in order to plan their schedules of courses.

Students majoring in Art History may choose from concentrations in Modern and Contemporary, Medieval and Renaissance, and Non-Western: pre-Columbian, Latin American, African and African American. Students majoring in Art History must maintain a GPA of at least 2.50 in the major and complete a senior thesis before graduation.

## Art History

The major in Art History requires the completion of 46 semester hours in the Art Department.

1. Core courses of 18 hours:
  - a. 12 hours of art history courses: ART 1910, 1920, 1930, and 3940.
  - b. HIST 1020
  - c. PHIL 2110
2. 25 semester hours from ART 3760, 3860, 3870, 3871, 3872, 3880, 3910, 3960, 3990, 4910, 4920, 4940, 4960.
3. Studio art electives of 9 hours taken from courses in clay, foundations, graphic design, painting, printmaking, or sculpture.

4. General electives including a nondepartmental minor of 15 hours approved by the student's academic advisor.
5. Foreign language courses in French, German, or Spanish of 12 hours; two courses must be at the intermediate or advanced level.

*\*pending THEC approval*

## Minor in Art History

A minor in Art History requires the following sequence of courses: ART 1910, 1920, and 1930, followed by 15 hours of elective, upper-division art history courses.

## Courses in Art [ART]

**1030 Orientation to Art.** Three credits. An introduction to art structure and styles of art; relationships between past ideas and current trends.

**1610 Two-Dimensional Design.** Three credits. The principles and techniques of design and their application to two-dimensional art forms.

**1620 Drawing I.** Three credits. Develops observational drawing skills and a formal drawing vocabulary; introduces various drawing materials.

**1630 Three-Dimensional Design.** Three credits. Prerequisite: ART 1610. Emphasis on elements of design as they operate in the three-dimensional environment.

**1640 Drawing II.** Three credits. Prerequisites: ART 1610 and 1620. A continuation of ART 1620 with specific emphasis placed on drawing processes and expression.

**1910 Art Survey I.** Three credits. Examines Western visual arts and cultures from Paleolithic times to the Middle Ages with periodic comparisons to non-Western visual arts and cultures for perspective.

**1920 Art Survey II.** Three credits. A continuation of ART 1910 focusing on Western visual arts and cultures from the Middle Ages to the later eighteenth century with periodic comparisons to non-Western visual arts and cultures for perspective.

**1930 Art Survey III.** Three credits. Prerequisite: ART 1920. A continuation of ART 1910/1920 focusing on modern art and culture in the Western world with periodic comparisons to non-Western visual arts and cultures for perspective.

**2105 Introduction to Latin American Studies.** Three credits. (Same as SPAN 2105, P S 2105, SOC 2105, ANTH 2105, GEOG 2105.) A multidisciplinary, team-taught introduction to Latin America. Covers the cultures and societies of the region in terms of pre-history, history, geography, politics, art, languages, and literatures. Required course for all Latin American Studies minors.

**2130 Silkscreen.** Three credits. Prerequisites: ART 1610, 1620, 1630, and 1640 or permission of instructor. An introduction to printmaking, including photo-silkscreen using water-based inks. Handmade stencils used as well as those generated by computer and copy machine.

**2200 Introduction to Art Education.** Three credits. Examines the recent history and contemporary theories of art education, with special emphasis on the essential content of discipline-based art education (aesthetics, criticism, history, and production); introduces general curricular concerns, assessment, and advocacy issues.

- 2210 Art Activities and Appreciation for Elementary School.** Three credits. Emphasizes art production skills through introduction to design elements and principles and experimentation with a variety of art media and processes appropriate for children; introduces strategies for understanding and appreciating works of art.
- 2230 Art for Early Childhood.** Three credits. Prerequisite: H SC 1610 or permission of instructor. Art appreciation and activities for early childhood teachers to plan, implement, and evaluate art programs developmentally appropriate for young children.
- 2310 Graphic Design Technologies.** Three credits. Procedures involved in the production of graphic design materials by means of computer. Basics of word processing, drawing, and page layout programs for graphic design.
- 2320 Word and Image.** Three credits. Prerequisites: ART 1610 and 1620. Explores the relationship between word and image. Typography, primarily display type, is introduced into image-based design utilizing photography, illustration, and design work. Current designers and design trends introduced.
- 2510 Sculpture I.** Three credits. Prerequisites: ART 1610, 1620, 1630, and 1640 or permission of instructor. Processes and techniques used in sculpture including modeling, welding, and wood construction.
- 2620 Color Drawing.** Three credits. Prerequisites: ART 1610, 1620, and 1640. A culmination of the foundation sequence with emphasis on formal and expressive solutions to color and compositional drawing problems.
- 2710 Painting I.** Three credits. Prerequisites: ART 1610, 1620, 1630, and 1640 or permission of instructor. Introduction to painting techniques in particular media with emphasis on basic representational skills, awareness of formal issues, and vocabulary specific to particular media.
- 2810 Throwing.** Three credits. Prerequisites: ART 1610, 1620, 1630, and 1640. Basic processes and techniques of creating three-dimensional clay forms on the wheel (cylinders, bowls, and mugs). Some basic hand-building methods introduced.
- 3140 Etching and Intaglio.** Three credits. Prerequisites: ART 1610, 1620, 1630, and 1640 or permission of instructor. A printmaking course introducing etching, aquatint, soft-ground, drypoint, photoetching (intaglio-type). A non-toxic approach is stressed, substituting high-quality acrylic resists, vegetable oils, salts, and film for traditional toxic grounds, solvents, acids, and chemicals.
- 3200 Art Education for Teachers.** Three credits. Prerequisite: ART 2210. Emphasizes the development of comprehensive art lessons, integrating content from aesthetics, art criticism, art history, and production.
- 3210 Elementary Art Education Methods.** Three credits with lab. Prerequisite: ART 2200. Investigates child development theories and concerns related to children, the elementary school culture, curriculum development and implementation, and teaching and management strategies. Materials and processes appropriate to K-6 art education explored in studio lab.
- 3220 Secondary Art Education Methods.** Three credits. Prerequisites: ART 2200 and 3210. Focuses on the nature of middle and high school students, the secondary school culture, curriculum development and implementation, and teaching and management strategies. Materials and processes appropriate to 7-12 art education explored in studio lab.
- 3230 Art Education Practicum.** Three credits. Prerequisites: ART 2200, 3210, and 3220. Participation in the K-12 art classroom setting with class discussions and readings about the teaching experience. Advanced art curriculum development for the K-12 level.
- 3320 Typographic Design.** Three credits. Prerequisites: ART 1610 and 1620. An introduction to typography, exploring type as design as well as a means of communication. Display and text applications presented in a series of problems ranging from lettermarks to two-page spreads. Current typographic designers and trends introduced.
- 3330 Portfolio I.** Three credits. Prerequisites: ART 2320, 3320, and portfolio review after both 2320 and 3320 (or for transfer students, permission of instructor and portfolio review). The beginning of portfolio-based problems, more advanced and complex conceptual skills, production techniques, and an introduction to the offset printing process.
- 3520 Sculpture II.** Three credits. Prerequisites: ART 1620, 1630, 1640, and 2510 or permission of instructor. Introduction to the processes and techniques used in sculpture, including casting techniques; subtractive and constructive experiences with a variety of materials.
- 3530 Sculpture III.** Three credits. Prerequisites: ART 2510 and 3520 or permission of instructor. Development of concepts and techniques with primary emphasis on wood sculpture. Wood construction, carving, laminating, and subordinate use of other sculpture materials.
- 3550 Book Arts I.** Three credits. Prerequisites: ART 1610, 1620, and 1630 or permission of instructor. An introduction to basic processes involved with papermaking, bookbinding, and using paper as a creative medium.
- 3560 Drawing III.** Three credits. Prerequisites: ART 1610, 1620, 1630, 1640, and 2620. An advanced course in drawing with an emphasis on the creation of original imagery and the development of the ability to render images objectively using a variety of methods and media.
- 3610 Introduction to Computer-Assisted Art.** Three credits. Prerequisites: ART 1610, 1620, 1630, and 1640 or permission of instructor. Explores the use of the computer in relation to art and design concepts in two- and three-dimensional media.
- 3620 Intermediate Computer-Assisted Art.** Three credits. Prerequisites: ART 1610, 1620, 1630, 1640, and 3610. Computer-generated or assisted art work. Development of original work in art or design.
- 3650 Figure Drawing.** Three credits. Prerequisite: ART 2620. Introduction to concepts. Specific concepts include gesture and expression, spatial structure and proportion, and the effects of light and drapery on the human form.
- 3720 Painting II.** Three credits. Prerequisite: ART 2710. A continuation of ART 2710 with additional attention paid to individual expression and art historical perspectives.
- 3730 Painting III.** Three credits. Prerequisite: ART 3720 or permission of instructor. The creative process, idea development, and project planning in painting.

- 3760 The Age of Chivalry.** Three credits. Prerequisite: ART 1930 or permission of instructor. Art of the period of the Crusades and Pilgrimages as viewed both from Europe and from the Islamic World.
- 3770 Letterpress I.** Three credits. Prerequisite: ART 3550 or permission of instructor. Introduction to hand papermaking processes and letterpress printing using raised type to form text and relief printing processes to create images.
- 3820 Handbuilding.** Three credits. Prerequisites: ART 1610, 1620, 1630, and 1640. Studio experiences in designing and creating three-dimensional ceramic forms emphasizing techniques of hand construction. Some basic techniques introduced on the wheel.
- 3830 Intermediate Clay I.** Three credits. Prerequisites: ART 2810, 3820, and permission of instructor. Studio experiences in designing, forming, and decorating functional/non-functional forms. Introduction to some basic materials processes (clay and glaze formulation, and firing techniques).
- 3860 Northern Renaissance.** Three credits. Prerequisite: ART 1930 or permission of instructor. Art of Northern Europe from the late fourteenth century through the sixteenth century focusing on architecture, sculpture, and painting from England, France, Germany, and the Low Countries.
- 3870 Native American Art.** Three credits. Prerequisite: ART 1930 or permission of the instructor. Survey of the arts of indigenous cultures of North America from the pre-Contact era to the contemporary period.
- 3871 Mesoamerican Art.** Three credits. Prerequisite: ART 1930 or permission of the instructor. Survey of the arts of pre-Columbian cultures of Mesoamerica from the Olmec to the Aztec.
- 3872 Andean Art.** Three credits. Prerequisite: ART 1930 or permission of the instructor. Survey of the arts of pre-Columbian cultures of the Andes from the Chavin to the Inca.
- 3880 Latin American Art.** Three credits. Prerequisite: ART 1930 or permission of instructor. A survey of the art of Latin America from the period of Independence (1821) to the present, focusing on architecture, sculpture, and painting from Mexico through South America. Impact of these cultural expressions on Hispanic/Chicano/Latino arts of the United States.
- 3910 Renaissance Art History.** Three credits. Prerequisite: ART 1920 or permission of instructor. The visual arts of the Renaissance in Europe (ca. 1300-1600).
- 3930 Multimedia Design.** Three credits. Prerequisites: ART 1610, good working knowledge of digital imaging, and permission of instructor. Multimedia design, including the design, planning, and creation of web sites.
- 3940 Art History Methods.** Three credits. Prerequisite: ART 1930 or permission of instructor. Historical foundations of art history as a modern discipline, the variety of methods art historians use to make sense of artworks, and the ethics of scholarship in the contemporary world.
- 3960 The Art of Books.** Three credits. Prerequisite: ART 1930 or permission of instructor. Interdisciplinary investigation of the forces which have conditioned the composition, production, and consumption of the Western book from antiquity to the present. Emphasis on such transitional phases as the replacement of the roll by the codex in the fourth century and the fifteenth-century advent of printed book which replaced handwritten ones.
- 3990 Art of the United States.** Three credits. Prerequisite: ART 1930 or permission of instructor. Art historical survey of colonial and national visual arts expressions—contexts, styles, and trends—ca. 1600 to ca. 1945. Focuses on American painting, sculpture, and architecture. Explores decorative arts as well as periodic explorations of non-European traditions.
- 4000 Workshop.** One to three credits. Subject matter and credit to be determined by the instructor. The workshop may be conducted in the area of art education or any art discipline. (A maximum of 9 credits may be applied toward a degree.)
- 4100 Lithography.** Three credits. Prerequisites: ART 1610, 1620, and 2130. An intermediate course in printmaking. The making and printing of lithographic images on stones and plates, including both traditional and contemporary techniques such as photolithography, transfer lithography, and color lithography.
- 4110 Advanced Book Arts.** Three credits. Prerequisite: ART 3550. Further work with papermaking, bookbinding, and the production of artist's books.
- 4120 Intermediate Printmaking.** Three credits. Prerequisites: ART 2130, 3140, and 4100 or permission of instructor. Further work in one or more of the following media: silkscreen, intaglio, lithography, or relief printmaking.
- 4130 Advanced Printmaking.** Three credits. Prerequisite: ART 4120. Advanced work in one of the printmaking media as described in ART 4120.
- 4140 Advanced Study in Printmaking.** Three credits. Prerequisite: ART 4130. Intensive independent research in one of the areas chosen by the student and planned in consultation with the instructor.
- 4280 Digital Illustration.** Three credits. Prerequisites: ART 1610, 1620, 1640, and 2310; permission of instructor required. Vector software and the conceptualization, technical skills, and professional practices of digital illustration.
- 4290 Beginning Illustration.** Three credits. Prerequisites: ART 1610, 1620, 1630, and 1640; ART 3330 for graphic design majors. Introduces basic methods, materials, and business practices of illustration, with an emphasis on development of rendering skills.
- 4300 Advanced Illustration.** Three credits. Prerequisite: ART 4290 or permission of the instructor. Continued exploration of methods and materials with an emphasis on development of a personal style.
- 4310 Portfolio II.** Three credits. Prerequisite: ART 3330. Continued production of portfolio-based problems with increased emphasis on advanced design skills related to the specific needs of the workplace. Includes basic collateral problems, ad campaigns, corporate identity, signage, plus a self-promotional package.
- 4320 Senior Project.** Three credits. Prerequisite: ART 4310 or permission of instructor. Following a portfolio review, each class member will devise a project that conceptually and visually addresses his or her design/illustration goals.
- 4330 Internship.** Three credits. Prerequisites: Senior standing and permission of the internship coordinator. Advanced students gain practical experience in a professional setting as an intern. Approximately 150 work hours required for the semester.

- 4390 Multimedia Authoring I.** Three credits. Prerequisites: ART 1610, good working knowledge of digital imaging, and permission of instructor. An intermediate multimedia authoring class. Design, planning, and creation of interactive digital applications for CD-ROM, the Internet, and other digital environments.
- 4400 Multimedia Authoring II.** Three credits. Prerequisite: ART 3930 or 4390 or permission of instructor. An advanced multimedia authoring class. Students work individually and as teams on interactive applications for the computer and the Internet. Emphasis on projects which are solicited from sources outside the class as well as outside the University.
- 4510 Sculpture IV.** Three credits. Prerequisites: ART 2510 and 3520 or permission of instructor. Development of concepts and techniques with primary emphasis on metal sculpture. Gas and electric welding, fabricating, grinding, finishing, and subordinate use of other sculpture materials.
- 4520 Sculpture V.** Three credits. Prerequisites: ART 2510 and 3520 or permission of instructor. Development of concepts and techniques with primary emphasis on casting activities in the foundry; covers various metal casting techniques and subordinate use of other materials.
- 4530 Sculpture VI.** Three credits. Prerequisites: ART 3530, 4510, and 4520 or permission of instructor. Problems in sculpture selected by the student after approval by the instructor.
- 4640 Advanced Art Problems.** One to three credits. Structure and content determined by the art faculty on the basis of individual need. The student should be prepared to do independent research and experimentation in the area selected. (A maximum of 9 credits may be applied to a degree.)
- 4710 Painting IV.** Three credits. Prerequisite: ART 3730 or permission of instructor. Projects in painting; content of the course is planned by the student under supervision of the instructor. A final paper is required.
- 4720 Painting V.** Three credits. Prerequisite: ART 4710 or permission of instructor. Independent studies course in painting which continues the concerns of Painting IV. A final paper is required.
- 4730 Painting VI.** Three credits. Prerequisite: ART 4720 or permission of instructor. Directed individual study; a continuation of Painting IV at a more advanced level. A final paper is required.
- 4770 Letterpress II: The Tulip Poplar Press.** Three credits. Prerequisite: ART 3770. An advanced course in letterpress printing with an emphasis on the creative process of collaboration and on designing for the marketplace. Students work as apprentices for the Tulip Poplar Press to design and produce limited edition publications for the marketplace.
- 4810 Intermediate Clay II.** Three credits. Prerequisites: ART 3830 and permission of instructor. Directed individual studies of problems mutually agreed upon by the student and course instructor.
- 4820 Advanced Clay.** Three credits. Prerequisites: ART 4810 and permission of instructor. Further work as described in Intermediate Clay II.
- 4830 Advanced Study of Clay.** Three credits. Prerequisites: ART 4820 and permission of instructor. Further work as described in Intermediate Clay II. Written paper and exhibition required.
- 4880 African American Art.** Three credits. Prerequisite: ART 1930 or permission of instructor. An art historical survey of African American culture and visual arts, beginning with eighteenth century expressions in painting, sculpture, and the decorative arts, but focusing on the twentieth century expressions.
- 4890 Design History: Cultural Perspectives.** Three credits. Prerequisite: ART 1930 or permission of instructor. Nineteenth and twentieth century design history from the perspective of several western and non-western cultures considering aspects of gender, ethnicity, spirituality, and points of confluence.
- 4900 Nineteenth- and Twentieth-Century Art.** Three credits. Prerequisite: ART 1930 or permission of the instructor. Western visual art movements and trends ca. 1750 - ca. 1950 focusing on European painting and sculpture with periodic explorations of non-European and non-Western traditions for perspective.
- 4910 Women in Art.** Three credits. Prerequisite: ART 1930 or permission of instructor. Women's contribution to the art world both past and present emphasizing American and European cultures. Includes coverage of the second wave of feminism in the U.S.A. (1950-1980) and its impact on the arts; specific course content varies depending upon issues of current interest and current scholarship.
- 4920 Contemporary Art.** Three credits. Prerequisite: ART 1930 or permission of instructor. Contemporary Western visual art movements and issues ca. 1945 to the present focusing on American painting and sculpture with periodic explorations of other traditions for perspective.
- 4940 Special Studies in Art History.** Three credits. Prerequisite will vary. Content varies. When offered, particular topics addressed are indicated by the course title in the schedule book. Depending on the nature of the material to be covered, prerequisites may be imposed by the instructor. Can be repeated for up to 9 hours.
- 4960 Independent Studies in Art History.** Three credits. Prerequisites: ART 1930 and permission of instructor. Investigations into art history under the direction of one of the art history faculty. The topic(s) of investigation must be agreed upon by both student and instructor based on discussions prior to registration for this course. Can be repeated for up to 9 hours.

### Graduate Study

The department offers a minor at the graduate level. Requirements and a list of courses offered for graduate credit are published in the Graduate Catalog.



# Department of English

William Connelly, Chair  
Peck Hall 302

Badley, Baines, Barnett, Blackwell, Boldt, Bradley, Brantley, Bray, Brewer, Burlinson, Cain, Cantrell, Casal, Casson, Chapman, Clayton, Connelly, Cox, Dayton, Deshane, E. Donovan, K. Donovan, Dubek, Dudinetz, M. Dunne, S. Dunne, Gardner, D. Gentry, W. Gentry, Hague, Helford, Hibbard, Hixon, Hollings, Holtzclaw, Jackson, Ca. Johnson, Ch. Johnson, N. Johnson, J. Kates, R. Kates, Kerrick, Kirkman, Klein, King, Knox, Kostkowska, Lavery, Lawrence, Lee, Levine, Lewis, Lutz, Lynn, Mackin, Mapp, Marchant, McClure-Wade, McCluskey, McDaniel, McKee, Minichillo, Neth, Ordoubadian, Ostrowski, Overton, Petersen, Phillips, Rhodes, Sherman, Shuler, A. Smith, T. Smith, Strawman, Therrien, Tormey, Walker, Wolfe

Courses in the Department of English meet the General Education needs of all students through the development of verbal and written communication skills and the appreciation of literature. A major program is offered for students preparing to teach English in secondary schools, for students planning to enter law school, for students wishing to develop proficiency in some subject in the department, and for students preparing for graduate study. One may earn a Bachelor of Arts degree with a major in English or a Bachelor of Arts with a concentration in Secondary English Teacher Licensure. A minor in English is also offered.

The University does not recommend any student for licensure in English who has not satisfied requirements set by the College of Education and Behavioral Science for post-baccalaureate endorsement. Those planning to get a professional license to teach English must be advised by the associate chair of the English Department regarding courses to be taken.

The English Department participates in interdisciplinary minors in African American Studies, American Culture, Classical Studies, Early Modern European Studies, Environment and Human Society, Film Studies, Great Books, Linguistics, Medieval Studies, Native American Studies, Southern Studies, Twentieth-Century European Studies, Women's Studies, and Writing. See page 76 for a listing of interdisciplinary minors with their coordinating departments.

Before beginning the junior year, the student should file a degree plan with his or her advisor. **For 3000- and 4000-level courses, there is normally a prerequisite of 9 semester hours of English.**

## General Requirements

A minimum of 9 semester hours in General Education composition and literature is required of all students for graduation. Students complete this requirement by taking ENGL 1010 and 1020 in sequence and ENGL 2020, ENGL 2030, or HUM 2610.

**Students must pass ENGL 1010 and 1020 in sequence before taking ENGL 2020 or 2030 or HUM 2610. A minimum grade of C- in ENGL 1010 and 1020 is required to receive credit.**

All first-time freshmen must take the ACT or SAT and have their scores reported to MTSU as part of the application procedure. On the basis of the ACT or SAT scores, MTSU will exempt students with credit from ENGL 1010 and 1020, place students in ENGL 1010, or require further testing as a basis for placement decisions. Placement decisions will be based on the following scores:

**Enhanced ACT English score of 19-31:** Placement in ENGL 1010

**Enhanced ACT English score of 32 or greater:** Exemption from ENGL 1010 and 1020 with credit

**Enhanced ACT Composite Score of 18 or below:** Must undergo further testing (See page 91, Developmental Studies.)

**Enhanced ACT English Score of 18 or below:** Must undergo further testing (See page 91, Developmental Studies.)

**SAT Verbal Score of 460-710:** Placement in ENGL 1010 and 1020

**SAT Verbal Score of 720 or greater:** Exemption from ENGL 1010 and 1020 with credit

**SAT Verbal Score of 450 or below:** Must undergo further testing (See page 91, Developmental Studies, and page 33.)

**Students also may be exempt from ENGL 1010 with credit by scoring 3 or better on the CEEB or by scoring satisfactorily on CLEP exams (see page 31). Students may earn credit for ENGL 2030 by scoring satisfactorily on CLEP exams (see page 32).**

If a student takes an examination for advanced placement credit in General Education English more than once, the most recent score will determine the student's status.

All international students whose first language is not English must take a diagnostic test to place them in the right English class. ESL students who are not ready for ENGL 1010 will be required to take ENGL 1040 before enrolling in ENGL 1010.

**All students will complete the required 9 semester hours of English General Education by passing the following courses in the sequence in which they are listed.**

1. ENGL 1010
2. ENGL 1020
3. ENGL 2020 or 2030 or HUM 2610

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

## Teacher Licensure

Students seeking a license to teach in secondary schools (grades 7-12) must complete (1) a major in the subject they intend to teach; (2) a minor approved for the B.A. degree (see p. 56) or any interdisciplinary minor (see p. 76); and (3) the Secondary Education minor.

**NOTE:** The Secondary Education minor has been revised. Please see page 193 and contact the Educational Leadership Department for information.

## Major in English

A major in English consists of a minimum of 33 upper-division semester hours.

- Students should take the required ENGL 3000 as soon as possible after they declare an English major and complete freshman and sophomore General Education requirements for English.
- ENGL 3010 and 3020 are required of all English majors.
- One course must be included from each of the following eight groups:
  - English literature I: 3110, 3120, 3130, 4330, 4340, 4360, 4610
  - English literature II: 3210, 3220, 3230, 4100, 4240, 4620, 4710
  - American literature: 3300, 3305, 3310, 3320, 3330, 3340, 3360, 3365, 3370, 4630
  - European literature: 3390, 3400, 3440, 4210, 4220, 4420, 4430; HUM 3950; WMST 4209
  - Writing and language: 3520, 3540, 3550, 3560, 3570, 4000, 4005, 4500, 4510, 4530, 4540, 4570, 4870
  - Genre studies: 3350, 3380, 3450, 3460, 3750, 4450, 4460, 4470, 4490, 4770
  - Gender/Cultural studies: 3060, 3070, 3080, 3090, 3100, 3590, 3600, 4010, 4480, 4750, 4880; FREN 3130
  - Film/Popular literature: 3050, 3610, 3650, 3660, 3670, 3700, 3800, 4650, 4720, 4860
- Students who wish to pursue a license to teach English in grades 7-12 should follow carefully the major requirements outlined in Concentration: Secondary English Teacher Licensure below.
- ENGL 4850, Selected Topics in Literature and Language, may be used as a substitute in one of the groups above with the approval of the advisor, department chair, and dean of the College of Liberal Arts. When taught by an English faculty member, certain interdisciplinary Honors seminars (U H 3500 and 4600) may also be substituted, with approval, in one of the above groups.
- ENGL 1010, 1020, 2020, or 2030 may not be counted as part of the hours required for an English major.

Majors are expected to consult a member of the English staff each semester regarding the selection and arrangement of electives. Recommended minors for English majors include Foreign Languages, History, Philosophy, Political Science, Speech and Theatre, Film Studies, Writing, and Women's Studies, but students may choose a minor either from those listed under the B.A. requirements (page 56) or from the interdisciplinary minors (page 76).

All students pursuing a major within this department must complete the General Education requirements. Following is a suggested pattern of study for the first two years; however, consultation with the assigned advisor is necessary before each registration.

### Recommended Curriculum for Non-teaching Majors

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
Natural Sciences (2 prefixes)	8	HUM 2610 (Hum/FA)	3
Foreign Language 1010, 1020	6	ENGL 3000	3
HIST 2010, 2020, or 2030	6	Mathematics	3
COMM 2200 (Comm)	3	Foreign Language 2010, 2020	6
Humanities and/or Fine Arts	3	Social/Behavioral Sciences	
	<b>32</b>	(2 prefixes)	6
		Humanities and/or Fine Arts	3
		Minor or electives as advised	6
			<b>30</b>

### Concentration: Secondary English Teacher Licensure

A major in English that also satisfies the academic requirements for teacher licensure consists of a minimum of 32 upper-division semester hours.

- Students should take the required ENGL 3000 in the second semester of the sophomore year or as soon as possible after declaring the English major.
- ENGL 3010 and 3020 are required of all English majors.
- ENGL 3800, 4500, and 4510 are required of all majors seeking teacher licensure in English.
- One course must be completed from each of the following four groups:
  - a Shakespeare course
  - ENGL 3310 or 3320
  - ENGL 3060, 3300, 3340, or 3360
  - ENGL 3400, 4420, or 4430
- Two hours of upper-division English electives are required and are usually satisfied with a 3-hour course. Recommended electives include Advanced Composition, History of the English Language, Teaching ESL Writing and Grammar, Introduction to Linguistics, Modern Poetry, or any 4000-level special topics course.

Teaching majors are expected to consult with an English faculty advisor each semester to select coursework and choose a B.A. minor (in addition to the minor in Secondary Education). Recommended B.A. minors include Anthropology, Biology, Business Administration, Classical Studies, Early Modern European Studies, Economics, Foreign Language (French, German, or Spanish), Geography, Geology, History, Latin American Studies, Mathematics, Medieval Studies, Philosophy, Political Science, Psychology, Speech and Theatre, Sociology, Twentieth-Century European Studies, and Women's Studies.

In order to complete the English licensure program in four years, students are encouraged to work closely with a faculty advisor and to follow the pattern of study suggested below during their first two years.

**Recommended Curriculum for Teaching Majors**

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
Natural Sciences (2 prefixes)	8	HUM 2610 (Hum/FA)	3
Foreign Language 1010, 1020	6	ENGL 3000	3
HIST 2010, 2020, or 2030	6	Foreign Language 2010, 2020	6
COMM 2200 (Comm)	3	Social/Behavioral Sciences	
Humanities and/or Fine Arts	3	(2 prefixes)	6
	32	FOED 1110 and 2110\$	6
		Humanities and/or Fine Arts	3
			30

**NOTE:** The Secondary Education minor has been revised. Please see page 193 and contact the Educational Leadership Department for information.

**Minor in English**

A minor in English requires a minimum of 15 upper-division hours including ENGL 3000. ENGL 1010 and 1020 cannot be counted as part of the hours required for the minor, nor can the 3 hours of sophomore literature. Minors may not enroll in ENGL 3010, 3020, or 4500, which are open only to English majors.

**Interdisciplinary Minors**

Interdisciplinary minors are open to all students at the University. The Department of English coordinates the interdisciplinary minors in Film Studies, Great Books, and Writing. See Interdisciplinary Minors beginning on page 76.

**Courses in English [ENGL]****General Studies Courses**

- 1010 Expository Writing.** Three credits. The first General Education English course. Emphasis on learning to adapt composing processes to a variety of expository and analytic writing assignments. Minimum grade of C- required for credit.
- 1020 Research and Argumentative Writing.** Three credits. Prerequisite: ENGL 1010. The second General Education English course. Emphasis on analytic and argumentative writing and on locating, organizing, and using library resource materials in the writing. Minimum grade of C- required for credit.
- 1040 Writing for English as Second Language (ESL) Students.** Four credits. Open only to students whose native language is not English. Prerequisite to ENGL 1010 for ESL students who do not perform satisfactorily on diagnostic test given by the department. Introduces the international student to the process of English composition—moving from sentence to paragraph to the well-developed composition. Includes intensive review of grammar and the complex sentence structures necessary for clear expression in English. Three lecture hours and two one-half hour lab sessions. **Does not fulfill General Education English requirement.**
- 2020 Themes in Literature and Culture.** Three credits. Prerequisites: ENGL 1010 and 1020. Traces a specific theme or idea through a number of literary texts that reflect different historical and cultural contexts. Subject will vary.
- 2030 The Experience of Literature.** Three credits. Prerequisites: ENGL 1010 and 1020. The reading of a variety of literary types which illuminate themes and experiences common to human existence.

- 2550 Introduction to Peer Tutoring in Writing: Theory and Methods.** Three credits. Prerequisite: B or better in ENGL 1020 or permission of the instructor. Techniques of tutoring with a variety of writers and genres and the theoretical and practical components of writing center work with a focus on how collaboration, composition, and learning theories and methods can be applied to tutoring in college as well as high school and middle school settings.

**Upper-Division Course Offerings**

Prerequisites: Completion of 1000- and 2000-level English requirements.

- 3000 Introduction to Literary Studies.** Three credits. An introduction to the study of literature. Focus on strategies for sophisticated reading, literary genres, literary criticism and research. **Required for English majors and minors.**
- 3010 British Literature I.** Three credits. Prerequisite: ENGL 3000. Survey of British literature from the Anglo-Saxon period through the seventeenth century. Emphasis on literary periods and genres; major writers, schools, and movements; and on literary analysis of significant works. **Required for English majors.**
- 3020 British Literature II.** Three credits. Prerequisite: ENGL 3000 and 3010. Survey of British literature in the eighteenth, nineteenth, and twentieth centuries. Emphasis on literary periods and genres; major writers, schools, and movements; and on literary analysis of significant works. **Required for English majors.**
- 3050 Science Fiction.** Three credits. The science fiction genre, emphasizing significant themes, recurrent images and conventions, and historical and cultural context.
- 3060 Black Women as Writers.** Three credits. A survey of black women's literary expressions and the historical and sociocultural factors that shape these women's artistic sensibilities and thematic concerns. Emphasis will be given to U.S. women writers.
- 3070 Early Women Writers.** Three credits. An introduction to British/American/world literature by women through the eighteenth century.
- 3080 Women and Film.** Three credits. Representations of women in classic and contemporary films and of the work of contemporary women directors.
- 3090 Nineteenth-Century Women Writers.** Three credits. Examines works by British and American writers in the context of a female literary tradition. Writers studied may include Jane Austen, Mary Shelley, Emily Bronte, Charlotte Bronte, George Eliot, Christina Rossetti, Elizabeth Barrett Browning, and Emily Dickinson.
- 3100 Women Writers of the Twentieth Century.** Three credits. Literature of major women writers of the period. Divided by genre and primarily includes the fiction, poetry, and drama of British and American women.
- 3110 English Literature: The Medieval Period.** Three credits. A reading of selected works from Old English literature, especially *Beowulf*, and Middle English literature, with emphasis on *Sir Gawain and the Green Knight* and Malory's *Le Morte D'arthur* and medieval drama.
- 3120 English Literature: The Sixteenth Century.** Three credits. Readings in the major authors (More, Sidney, Spenser, Shakespeare, Jonson, Donne) and genres (prose fiction, romance, epic, son-

net, lyric). Effects of cultural, political, and religious influences on the literature.

- 3130 English Literature: The Seventeenth Century.** Readings in the major authors (Bacon, Jonson, Donne, Herbert, Herrick, Marvell, Crashaw, Vaughan, Milton) and genres (essay, epic, lyric, sermon). Effects of cultural, political, and religious influences on the literature.
- 3210 English Literature: Restoration and Eighteenth Century.** Three credits. English literature 1660-1800 emphasizing writings which reflect or influenced historical and literary developments.
- 3220 English Literature: 1790-1850** Three credits. A definition of English Romanticism and a study of works—mainly poems—by Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats.
- 3230 English Literature: The Victorian Period.** Three credits. The literature of England, 1830-1900. Emphasis on poetry and the novel.
- 3300 Native American Literature.** Three credits. Introduces oral and written literature of native America in its cultural, historical, and aesthetic contexts, with special emphasis on fiction, poetry, and autobiography.
- 3305 Early American Literature.** Three credits. A survey of American literature from the first European encounters with the New World to the beginning of the nineteenth century.
- 3310 Nineteenth-Century American Literature.** Three credits. Survey of American literature from Washington Irving to Henry James. Concentration on Romanticism, Realism, Naturalism, Pragmatism. Selected novels.
- 3320 Twentieth-Century American Literature.** Three credits. Survey of American literature from Theodore Dreiser to the present. Concentration on major authors. Selected novels.
- 3330 Southern Literature.** Three credits. Early and modern Southern writers. Emphasis on the period 1920-present.
- 3340 The Black Experience in Modern Afro-American Literature.** Three credits. Defines and traces the development and transformations of the African American literary tradition. Emphasis on analysis of historical, literary, philosophical, and cultural contexts.
- 3350 Development of the Short Story.** Three credits. Traces development of the short story from Poe and Irving to the experimental writers of the 1970s. Intensive reading of American writers with some exposure to British and continental authors. Critical essays on short story form.
- 3360 Multicultural Literature of the United States.** Three credits. Writers, genres, and criticism in Native American, African American, Hispanic American, and Asian American literatures.
- 3365 Hispanic Writers in American Literature.** Three credits. Acquaints students with the literary works of Hispanic Americans writing in English. Emphasis on analysis of the intersection of cultures and traditions and the formation of Hispanic American identity.
- 3370 Modern American Poetry.** Three credits. A survey of the lives, times, and works of the major American poets since 1860: Whitman, Dickinson, Frost, Stevens, Williams, Pound, Moore, Eliot, Crane, Hughes, Bishop, Lowell, Plath.
- 3380 The Comic Tradition.** Three credits. The various forms of comic literary art as manifested in fiction, drama, and poetry and in folk humor and rituals.
- 3390 Classical Mythology.** Three credits. Survey of the major myths and legends of the classical world with an emphasis on Greek mythology.
- 3400 European Literature to 1400.** Three credits. Selections from Greek and Roman literature and Dante; emphasis on epic, drama, mythology; comparisons of values commended by our literary ancestors.
- 3440 The Bible as Literature.** Three credits. Origin and nature of the Bible; cultural and historical backgrounds, influence on English language and literature; history of texts and canon; major religious and philosophical concepts and literary features.
- 3450 Development of the Novel in the Eighteenth Century.** Three credits. Examines the chronological and thematic development of eighteenth-century novels in the U.S., Britain, and Europe.
- 3460 Development of the Novel in the Nineteenth Century.** Three credits. Examines the chronological and thematic development of nineteenth-century novels in the U.S., Britain, and Europe.
- 3500 Applied Writing.** Three credits. Develops reading and writing strategies for examining individual writing processes and solving writing problems posed in university studies across the disciplines: essays, reports, reviews, analyses, memos, proposals.
- 3520 Professional Writing.** Three credits. A specialized composition course for students planning to enter the professional workplace, including industry, science, and government. Collaborative practice in the discourse and conventions of professional and technical writing: employment packages, memoranda, instructions, proposals, and reports.
- 3540 Fiction Writing.** Three credits. Prerequisite: Permission of instructor. A specialized seminar in which students study and create works of fiction.
- 3550 Poetry Writing.** Three credits. Prerequisite: Permission of instructor. A specialized seminar in which students study and create poetry.
- 3560 Playwriting.** Three credits. Prerequisite: Permission of instructor. A specialized writing course focusing on the appreciation and realization of the dramatic form.
- 3570 Introduction to Linguistics.** Three credits. Anatomy of sound production, levels of structure in language: phonological (sound), morphological (meaningful segments), syntactic (interrelation of words in a sentence). Various meanings of language.
- 3590 Children's Literature: Folk/Fairy Tales, Legends, Myths, Ancient Stories.** Three credits. Introduces folk/fairy tales, myths, epics, legends, and verse from a variety of languages, cultures, ethnic groups, and historical periods.
- 3600 Children's Literature.** Three credits. A survey of literature for children based on wide reading in the field.
- 3610 Survey of Popular Culture.** Three credits. An overview of literature and media reflecting the mass culture of America from 1900 to the present: westerns, mysteries, science fiction, popular music, film, and television.



- 3650 Literature and Film.** Three credits. The relationship between literature and film with emphasis on narration, characterization, point of view, and setting.
- 3660 Film Genre.** Three credits. One or more groups of films linked through narrative, stylistic, and/or thematic characteristics.
- 3670 Film History.** Three credits. History of world film from its inception through the 1990s.
- 3700 British Popular Culture.** Three credits. A cultural survey of Great Britain since 1945, including history, music, film, and literature.
- 3750 Modern and Contemporary Satire.** Three credits. The theory and practice of satire, 1900 to the present, with an emphasis on prose fiction.
- 3800 Literature for Adolescents.** Three credits. Surveys literature for adolescents, historical and contemporary; analysis of contemporary issues in the field. **Required for English majors seeking teacher licensure.**
- 3990 Individualized Writing Project.** One credit. Prerequisite: Permission of instructor. A small-group writing tutorial which allows work on a major writing project from any major or field of interest. Does not count for the English major or minor without advisor approval. Pass/Fail depending on attendance, participation, and progress. May be repeated twice for a total of three (3) credits.
- 4000 Writing Internship.** Three to twelve credits. Prerequisites: Fulfillment of ENGL 3520 or 4005 with a B or better and permission of department. A special course in which students work for a publishing company or other business or organization involved in professional writing. Enrollment open to English majors, Writing minors, and other students with permission of the internship director. Writing minors have priority, followed by English majors, and then any student approved by the internship director. Only 3 hours may count toward the English major and 3 hours toward the Writing or English minor. Arrangements for this course must be made in advance with the internship director through the Upper-Division office. May be taken more than once for a total of 12 hours. Pass/Fail.
- 4005 Advanced Composition.** Three credits. Prerequisite: Completion of ENGL 1020 or 3500 with a B or better. Approaches to various writing problems posed in advanced university studies and nontechnical professions: essays, proposals, critical reviews, analyses.
- 4010 Folklore.** Three credits. Traditional lore and culture (literature, ballads, beliefs, materials) with primary attention to the American scene.
- 4100 Browning and Tennyson.** Three credits. The lives and works of the major Victorian poets.
- 4210 Literary Criticism.** Three credits. Critical theories: Classical, Neoclassical, Romantic, and Modern. Practical criticism: the technical analysis of poetry and prose.
- 4220 Backgrounds of Modern Literature.** Three credits. Readings in the intellectual history of modern literature. Selected literary figures, major aesthetic movements, and pivotal ideas of modern Western culture, including Marx, Darwin, Nietzsche, Freud, Sartre. Course divided by themes representing disciplines or modes of thought.
- 4240 Modern British Literature.** Three credits. Poetry, fiction, and nonfiction written in Britain from approximately 1910 to 1939. Representative works of major British writers in the context of contemporary social and literary history.
- 4330 Histories and Comedies of Shakespeare.** Three credits. Selected plays, with emphasis on the study of character, theme, and imagery.
- 4340 Tragedies of Shakespeare.** Three credits. Selected plays, with emphasis on the study of character, theme, and imagery.
- 4360 English Drama: 1475-1642 (excluding Shakespeare).** Three credits. Plays written by Shakespeare's predecessors, contemporaries, and immediate successors.
- 4420 European Literature: 1400-1800.** Three credits. Survey of continental literature (in translation) of the Renaissance, Neoclassical, and Enlightenment periods. Emphasis on Rabelais, Cervantes, Moliere, and Voltaire.
- 4430 Modern European Literature.** Three credits. Survey of continental literature (in translation) from 1800 to the present, including Goethe, Flaubert, Tolstoy, Ibsen, and Mann.
- 4450 Modern Poetry.** Three credits. Major British and American poets from Emily Dickinson and Thomas Hardy to 1950.
- 4460 Modern Novel.** Three credits. Selected British and American novels of the twentieth century studied, related to literary and philosophical trends; emphasis on major novelists.
- 4470 Modern Drama.** Three credits. World drama from 1880 to the present.
- 4480 Law and Literature.** Three credits. Introduces interrelations of law and literature as seen in a variety of literary texts and classic writings of great jurists.
- 4490 Autobiography.** Three credits. Introduces autobiographical writing as a literary genre.
- 4500 Methods of Teaching Secondary English.** Three credits. Prerequisite: YOED 3500 and permission of department. An intensive study of both grammar and composition for the teacher, the writer, and the editor: writing, analyzing, and judging composition. **Required for English majors seeking teacher licensure.**
- 4510 Modern English Grammar and Usage.** Three credits. Traditional English grammar and the principles upon which grammatical analysis is based. **Required for English majors seeking teacher licensure.**
- 4530 History of the English Language.** Three credits. Political, social, intellectual forces determining historical development of English; internal structural changes—sounds, inflections—resulting from those forces.
- 4540 Approaches to Teaching ESL Grammar and Writing.** Three credits. Prerequisite: ENGL 4510 or equivalent. Background and basic methods needed to teach English grammar and composition to students for whom English is a second language. Emphasizes understanding of problems that non-native speakers face and develops techniques for helping non-native speakers express themselves in written English.
- 4570 Special Topics in Linguistics.** Three credits. Prerequisite: ENGL 3570, ANTH 3410, PSY 4820, CDIS 3250. Selected topic in

theoretical linguistics. Content varies from semester to semester. May be repeated under a different subtitle.

- 4610 Chaucer: The Canterbury Tales.** Three credits. An intensive study of *The Canterbury Tales* and the background out of which they were written.
- 4620 Milton.** Three credits. An intensive study of *Paradise Lost*, *Samson Agonistes*, "Lycidas," *Areopagitica*, and the minor poetry.
- 4630 The American Renaissance.** Three credits. American Romanticism in the selected writings of Emerson, Whitman, Thoreau, Hawthorne, and Melville.
- 4650 Film Theory and Criticism.** Three credits. A survey of the major theoretical approaches to film, including montage, *mise-en-scene*, and structuralist theory.
- 4710 Contemporary British and Commonwealth Novels.** Three credits. Contemporary British and Commonwealth novels in the context of social and literary history.
- 4720 Special Topics in Contemporary Literature.** Three credits. A selected genre, author, theme, or nation, with a focus on literature after World War II. Subject will vary with instructor.
- 4750 Special Topics in Children's Literature.** Three credits. Selected genre, period, ethnicity, tradition, or literary focus in children's and/or young adult literature. Subject will vary with instructor.
- 4770 Lyric Poetry.** Three credits. The theories, types, structures, and subjects of lyric poetry in English during various historical periods, with emphasis on the Renaissance, Romantic, and Modern periods.
- 4850 Selected Topics in Literature and Language.** Three credits. A selected author, genre, period, tradition, or context of literary or linguistic inquiry. The field will vary with instructor.
- 4860 Special Topics in Film Studies.** Three credits. A selected director, genre, period, aspect, or theme. The subject will vary each time course is taught.
- 4870 Special Topics in Writing.** Three credits. An intensive study in one specialized form of writing. The form of writing will vary with the instructor teaching the course.
- 4880 War and Literature.** Three credits. Open to all majors. A selected author, genre, period, tradition, or context of literary inquiry in the subject of war. Topic will vary with instructor.

## Honors College

The Department of English offers the following courses in Honors:

- ENGL 1010 (Fall Semester)  
 ENGL 1020 (Spring Semester)  
 ENGL 2020 (Fall and Spring Semester)  
 ENGL 2030 (Fall Semester)

## Upper Division Honors

ENGL 3050, 3230, 3340, 3390, 3650, 4330, 4340, 4620, 4630

## Graduate Study

The Master of Arts and Ph.D. degrees are offered in English. Requirements for these degrees and a list of the courses offered for graduate credit are published in the Graduate Catalog.

# Department of Foreign Languages and Literatures

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**Deborah Mistrion, Chair**  
**Boutwell Dramatic Arts Building 301**

**Conley, Da, Diaz, Goldberg, Hedgepeth, Heine, Kew, Maisonneuve, McBreen, McCash, Morris, Nogueira, Novella, Rusciollelli, Shelton, Thomas**

Courses in foreign languages and literatures are designed to meet the needs of all students and to develop communication skills and appreciation of cultures and literatures. The major is offered for those preparing to teach foreign languages, for students wishing to develop proficiency in the languages, for students preparing for international careers, and for students planning for graduate study.

The major in Foreign Languages has three concentrations—French, German, and Spanish—and leads to either the Bachelor of Arts or Bachelor of Science degree. Minors are offered in French, German, and Spanish, and courses in Italian, Japanese, Latin, Portuguese, and Russian are available.

Interdisciplinary minors coordinated through the Department of Foreign Languages and Literatures include Early Modern European Studies, Latin American Studies, Linguistic Studies, and Classical Studies.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

## Teacher Licensure

Students seeking a license to teach a foreign language in secondary schools (grades 7-12) must complete (1) a major in the language they intend to teach; (2) F L 4500, Introduction to Teaching Foreign Languages; (3) a minor; and (4) the Secondary Education minor. Each student must pass an oral interview in the target language at the high intermediate level.

## Minor Requirements

Students must take a 15-18 hour approved minor acceptable for a B.A. degree.

## Secondary Education Minor Requirements

Students must contact their Secondary Education minor advisors for approval of appropriate courses. (For specific procedures and additional requirements for teacher licensure, see page 188.)

*NOTE: The Secondary Education minor has been revised. Please see page 193 and contact the Educational Leadership Department for information.*

## Major in Foreign Languages

A student majoring in Foreign Languages must select one of the concentrations and specialize in either French, German, or Spanish. A major consists of 35 semester hours in one language (excluding 1010) and must include at least 20 hours of upper-division work.

French specialists are required to take FREN 3010, 3040, 3080, either 3050 or 3060, and two 4000-level courses. Native speakers of French will substitute FREN 3110, 3120, or an additional 4000-level course for 3010 and 3040.

German specialists are required to take GERM 3010, 3020, and two 4000-level courses.

Spanish specialists are required to take SPAN 3010, 3020, and two 4000-level courses. Native speakers of Spanish should consult with their advisors.

Majors should choose HUM 2610, Foreign Literature in Translation, to satisfy part of the General Education Humanities and/or Fine Arts requirements.

Majors should pursue the following lower-division program:

### Recommended Curriculum

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	HUM 2610 (Hum/FA)	3
Natural Sciences	8	Humanities and/or Fine Arts (2 prefixes)	6
Foreign language 1010, 1020 or 2010, 2020	6	Foreign language 2010, 2020 or 3010, 3020	6
Social/Behavioral Sciences	6	HIST 2010, 2020, or 2030	6
COMM 2200 (Comm)	3	Mathematics	3
	29	Electives	6
			30

Before beginning the junior year, the student should file a degree plan with his or her advisor.

### Minor in French, German, or Spanish

A minor in French, German, or Spanish requires 18 semester hours in the selected language (excluding 1010), including 9 hours of 3000- and/or 4000-level courses.

### Advanced Placement Credit

A student scoring 3 or above on the Advanced Placement Exam for French, German, Latin, or Spanish of The College Entrance Examination Board (CEEB) will receive 6 credit hours (1010 and 1020). In addition, a student possessing knowledge of French, Spanish, German, or Latin resulting from high school study, family background, or foreign travel may earn up to 12 hours lower-division credit on the basis of a placement examination, provided the student does not already have college credit in the language for which he/she is seeking placement credit and provided the student successfully completes one course in the language at MTSU.

Students may make arrangements to take the placement test in the Media Lab, Boutwell Dramatic Arts Building 303B.

**NOTE: No student is permitted to take 1010, 1020, 2010, and 2020 in a foreign language out of sequence without the permission of the instructor. Similarly, no student who has successfully completed an upper-level course will be permitted to enroll in a lower-division course in the same language without the permission of the instructor.**

## Interdisciplinary Minors

Interdisciplinary minors are open to all students in the University. The Department of Foreign Languages and Literatures coordinates the interdisciplinary minors in Classical Studies, Early Modern European Studies, Latin American Studies, and Linguistic Studies. See Interdisciplinary Minors beginning on page 76.

## Class Attendance Policy

The instructor can at his/her own discretion drop a student after two class meetings if the student fails to attend the first two class meetings.

## Course in Foreign Languages [F L]

**4500 Introduction to Teaching Foreign Languages.** Three credits. Introduces students who plan to teach a foreign language in elementary or secondary schools to a variety of approaches and instructional methods.

## Courses in Humanities [HUM]

**2130 Medical Vocabulary.** Three credits. Principles of forming and deciphering medical terminology.

**2610 Foreign Literature in Translation.** Three credits. Representative works of French, German, and Hispanic authors in English translation. No foreign-language proficiency required. **Carries General Education credit.**

**3500 Latino Images in U.S. Film.** Three credits. Prerequisites: ENGL 2020 or 2030 or permission of instructor. Explores the past and present portrayals of Latinos in U.S. cinema.

**3950 Women in the Middle Ages.** Three credits. The role of women in western Europe from the late fifth to the end of the fifteenth century, emphasizing their cultural contributions in the courtly world, the church, the world of work, and the arts.

**4550 The Grail Legend in Film and Literature.** Three credits. Prerequisites: ENGL 2030 and either HUM 2610 or ENGL 2130, 2330, or 2230; or permission of the instructor. Explores the origin and development of the Grail legend in Western art primarily in literature and film.

**4610 Comparative Literature.** Three credits. Comparative literature in terms of its concerns with literary theory and criticism as well as its practical application. A reading knowledge of a foreign language is recommended.



## Courses in French [FREN]

- 1010 Elementary French I.** Three credits. Foundation course in reading, writing, speaking, and aural comprehension.
- 1020 Elementary French II.** Second semester. Three credits. Prerequisite: FREN 1010 or advanced placement (see above). Continuation of 1010.
- 1030 Elementary Business French.** Three credits. Prerequisite: FREN 1010 or equivalent. Embarks students on a mastery of the linguistic and cultural skills necessary for effective communication in francophone professional contexts. May substitute for FREN 1020.
- 2010 Intermediate French I.** Three credits. Prerequisite: FREN 1020 or advanced placement (see above).
- 2020 Intermediate French II.** Second semester. Three credits. Prerequisite: FREN 2010 or advanced placement (see above). Continuation of 2010.
- 2910 Study Abroad.** One to six credits. Prerequisites: Two semesters of French or equivalent and/or approval of French faculty. For students in any major or minor.
- 3000 Group Conversational French.** One credit. Prerequisite: FREN 2020 or permission of instructor. One hour per week of simulated experiences students may expect to encounter in a French-speaking community. Graded Pass/Fail depending on attendance, participation, and progress. May be repeated for a maximum of 3 hours of credit only for the major; does not count for the minor.
- 3010, 3020 Advanced Conversation and Composition.** Three credits each. Prerequisite: Intermediate French or advanced placement (see above).
- 3030 Business French.** Three credits. Prerequisite: FREN 2020 or equivalent. The linguistic and cultural skills necessary to conduct business in France or any other francophone setting.
- 3040 Intensive Conversational French.** Three credits. Prerequisite: Two years of French.
- 3050 Survey of French Literature and Culture (Middle Ages-1800).** Three credits. Prerequisite: FREN 2020 or equivalent.
- 3060 Survey of French Literature (1800-Present).** Three credits. Prerequisite: FREN 2020 or equivalent.
- 3080 Introduction to French Literary Studies.** Three credits. Concepts and vocabulary fundamental to the study of French literature; general view of the main currents of French literary history; introduction to French versification; techniques of literary analysis; practice in literary analysis and in writing about literature; preparation for 4000-level courses.
- 3110 French/Francophone Culture.** Three credits. Prerequisite: FREN 2020 or equivalent. History of French/Francophone culture from the beginning to present.
- 3120 French Phonetics and Pronunciation.** Three credits. Prerequisite: FREN 2020. Introduces symbols of the International Phonetic Alphabet which correspond to all the sounds of the French language; addresses the basic concepts of articulation, rules of pronunciation, elementary suprasegmental features of the language such as intonation.
- 3130 Twentieth-Century Women Writers in French.** Three credits. Prerequisite: FREN 2020 or equivalent for French majors and minors; ENGL 2130 or equivalent for all others. The literary works of twentieth-century women writers of French-speaking countries including Algeria, Canada, France, Guadeloupe, Haiti, Morocco, Senegal, and Vietnam. Class conducted in English.
- 3910 Study Abroad.** Three to twelve credits. Prerequisites: 12 credits; two years study of French or equivalent with B average or better; and approval of Foreign Languages and Literatures Department. Majors and minors only. Students will spend one or two semesters at the Université of Franche-Comté in Besançon, France, studying French language, literature, and culture. Students may earn three to twelve credit hours in other study abroad programs approved by the Department of Foreign Languages and Literatures.
- 3970, 3980 Cooperative Education.** Three credits. Provides students with opportunities for on-the-job training in conjunction with on-campus academic experiences. Students will participate in professional growth seminars. Requirements of the department and MTSU Cooperative Education must be completed to receive credit.
- 4010 Topics in Twentieth-Century French Literature.** Three credits. Prerequisites: 6 hours of French beyond the intermediate level or permission of instructor.
- 4020 Topics in French Film.** Three credits. Class conducted in English. No language prerequisite. However, students taking course for French major or minor credit will be required to do some written assignments in French.
- 4030 Topics in Nineteenth-Century French Literature.** Three credits. Prerequisites: 6 hours of French beyond the intermediate level or permission of instructor.
- 4040 Topics in Eighteenth-Century French Literature.** Three credits. Prerequisites: 6 hours of French beyond the intermediate level or permission of the instructor.
- 4050 Topics in Medieval and Renaissance French Literature.** Three credits. Prerequisites: 6 hours of French beyond the intermediate level or permission of instructor.
- 4060 Topics in Neoclassical French Literature.** Three credits. Prerequisites: 6 hours of French beyond the intermediate level or permission of instructor.
- 4900 Directed Study in French Literature and Culture.** One to six credits. Prerequisites: FREN 3010 and 3020 or permission of instructor. Individualized intensive reading in primary and secondary sources relating to a specific topic in French literature or culture. Arrangements must be made with instructor prior to registration. Proposals must be approved by the French section one month prior to the end of the preceding semester.
- 4958 Honors in French Literature.** Three credits. For students of advanced standing and superior academic ability. Admission only by permission of the Departmental Honors Committee and approval by the Honors Council. Proposals must be approved by midterm of the semester preceding enrollment in 4958.
- 4990 Techniques of Translation.** Three credits. Prerequisites: Admission to the College of Graduate Studies or permission of the instructor. For graduate students seeking proficiency in reading French for research purposes. Open to undergraduates seeking to prepare for graduate study. Will not count toward a major or minor in French.

## Courses in German [GERM]

- 1010 Elementary German I.** Three credits. A foundation course in reading, writing, speaking, and aural comprehension.
- 1020 Elementary German II.** Second semester. Three credits. Prerequisite: GERM 1010 or advanced placement (see above).
- 2010 Intermediate German I.** Three credits. Prerequisite: GERM 1020 or advanced placement.
- 2020 Intermediate German II.** Second semester. Three credits. Prerequisite: GERM 2010 or advanced placement.
- 3000 Group Conversational German.** One credit. Prerequisites: GERM 1010 and 1020 or permission of instructor. One hour per week of experiences students may expect to encounter in a German-speaking community. Graded Pass/Fail depending on attendance, participation, and progress. May be repeated for a maximum of 3 hours credit.
- 3010, 3020 Advanced Composition and Conversation.** Three credits. Prerequisite: GERM 2020 or advanced placement.
- 3030 Business German.** Three credits. Prerequisites: GERM 2020 or equivalent, plus either 3010 or 3020. A foundation course offering linguistic skills necessary to conduct business in German settings.
- 3040 Intensive Conversational German.** Three credits. Prerequisite: GERM 2010 or equivalent.
- 3050, 3060 Survey of German Culture.** Three credits. Prerequisite: Intermediate German or permission of instructor. 3050 covers the history of German culture through the eighteenth century. 3060 deals with the nineteenth and twentieth centuries.
- 3070 Applied German.** Three credits. Substitutes for GERM 2020. Deals with specialized vocabularies (e.g., business, electronics, economics, music). Extensive readings in the student's area of specialization and practical experience in drafting letters, outlines, reports, etc.
- 3910 Study Abroad.** Twelve credits. Prerequisites: Completion of Intermediate German or equivalent with B average or higher; declared major or minor in German; approval of Foreign Languages and Literatures Department. Semester enrolled at Johannes Gutenberg Universität, Fachbereich der angewandten Sprachwissenschaften, in Gernersheim, Germany, studying German language, literature, and culture. May be repeated once.
- 3970, 3980 Cooperative Education.** Three credits. Provides students with opportunities for on-the-job training in conjunction with on-campus academic experiences. Students participate in professional growth seminars. Requirements of the department and MTSU Cooperative Education Office must be completed to receive credit.
- 4010 Topics in German Literature and Culture.** Three credits each. Prerequisites: 6 hours German beyond intermediate level or permission of instructor.
- 4020 German Literature: 1725-1880.** Three credits. Prerequisites: 6 hours German beyond intermediate level or permission of instructor.
- 4030 German Literature: 1880 to Present.** Three credits. Prerequisites: 6 hours German beyond intermediate level or permission of instructor.

**4900 Directed Study in German Literature and Culture.** One to six credits. Prerequisites: 15 hours of German or permission of instructor. Individualized intensive reading in primary and secondary sources relating to a specific topic in German literature or culture. Arrangements must be made with instructor prior to registration.

**4958 Honors in German Literature.** Three credits. For students of advanced standing and superior academic ability. Admission only by permission of the Departmental Honors Committee and approval by the Honors Council. Proposals must be approved by midterm of the semester preceding enrollment in 4950.

**4990 Techniques of Translation.** Three credits. Prerequisites: Admission to the College of Graduate Studies or permission of the instructor. For graduate students seeking proficiency in reading German for research purposes. Open to undergraduates seeking to prepare for graduate study. Will not count toward a major or minor in German.

## Courses in Italian [ITAL]

- 1010 Elementary Italian I.** First semester. Three credits. An introductory course in the Italian language and culture, with special emphasis on daily expressions and forms of communication.
- 1020 Elementary Italian II.** Second semester. Three credits. Prerequisite: ITAL 1010 or advanced placement. Continuation of ITAL 1010. Increased emphasis on the acquisition of fluency in Italian.
- 2010 Intermediate Italian I.** Three credits. Prerequisite: ITAL 1020 or permission of instructor. A review of Italian grammar with reading and oral exercises designed to improve understanding of written and spoken language.
- 2020 Intermediate Italian II.** Second Semester. Three credits. Prerequisite: ITAL 2010 or permission of instructor. Continuation of ITAL 2010.

## Courses in Japanese [JAPN]

- 1010 Elementary Japanese I.** Three credits. A foundation in reading, writing, speaking, and aural comprehension.
- 1020 Elementary Japanese II.** Second semester. Three credits. Prerequisite: JAPN 1010 or equivalent. A continuation of materials introduced in 1010.
- 2010 Intermediate Japanese I.** Three credits. Prerequisite: JAPN 1020 or equivalent.
- 2020 Intermediate Japanese II.** Second semester. Three credits. Prerequisite: JAPN 2010 or equivalent.
- 3010 Advanced Japanese.** Three credits. Prerequisite: JAPN 2020 or equivalent. A continuation of modern Japanese. Emphasis on linguistic and communicative skills in speaking, reading, writing, and listening. Includes further study of Japanese culture for enhanced understanding of the language.
- 3020 Advanced Japanese.** Three credits. Prerequisite: JAPN 3010. A continuation of JAPN 3010.

## Courses in Latin [LATN]

- 1010 Elementary Latin I.** Three credits. A foundation course in Latin grammar, word derivations, and reading. Special attention given to contributions of Latin to legal and medical terminology.
- 1020 Elementary Latin II.** Second semester. Three credits. Prerequisite: LATN 1010 or equivalent. Continuation of materials introduced in LATN 1010. Increased emphasis on reading Latin texts.
- 2010 Intermediate Latin I.** Three credits. Prerequisite: LATN 1020 or advanced placement. Includes readings from both classical and later periods, prose and verse.
- 2020 Intermediate Latin II.** Three credits. Prerequisite: LATN 2010 or advanced placement. Continuation of LATN 2010.

## Courses in Portuguese [PORT]

- 1010 Elementary Portuguese I.** Three credits. Portuguese grammar with readings and oral exercises designed to improve the student's ability to understand the written and spoken language.
- 1020 Elementary Portuguese II.** Three credits. Prerequisite: PORT 1010 or permission of instructor. Continuation of materials introduced in PORT 1010.
- 2010 Intermediate Portuguese I.** Three credits. Prerequisite: PORT 1020 or permission of instructor. A review of Portuguese grammar with readings and oral exercises designed to improve the student's skills and understanding of Brazilian culture.
- 2020 Intermediate Portuguese II.** Three credits. Prerequisite: PORT 2010 or permission of instructor. Continuation of PORT 2010.

## Courses in Russian [RUSS]

- 1010 Elementary Russian I.** Three credits. A beginning course in written and spoken Russian. Special emphasis on noun declension and verbal aspects.
- 1020 Elementary Russian II. Second semester.** Three credits. Prerequisite: RUSS 1010 or advanced placement. A continuation of RUSS 1010.
- 2010 Intermediate Russian I.** Three credits. Prerequisite: RUSS 1020 or equivalent.
- 2020 Intermediate Russian II.** Second semester. Three credits. Prerequisite: RUSS 2010 or equivalent.

## Courses in Spanish [SPAN]

- 1010 Elementary Spanish I.** Three credits. A foundation course in reading, writing, speaking Spanish with an emphasis on conversation.
- 1020 Elementary Spanish II.** Second semester. Three credits. Prerequisite: SPAN 1010 or advanced placement. A continuation of materials introduced in 1010.
- 2010 Intermediate Spanish I.** Three credits. Prerequisites: SPAN 1020 or advanced placement. A review of Spanish grammar with reading and oral exercises designed to improve the ability to understand the written and spoken language.

- 2020 Intermediate Spanish II.** Second semester. Three credits. Prerequisite: SPAN 2010 or advanced placement. A continuation of 2010.
- 2105 Introduction to Latin American Studies.** Three credits. (Same as P S 2105, SOC 2105, ART 2105, ANTH 2105, GEOG 2105.) A multidisciplinary, team-taught introduction to Latin America. Covers the cultures and societies of the region: pre-history, history, geography, politics, art, languages, and literatures. Required course for all Latin American Studies minors. Does not count for Spanish major or minor.
- 3000 Group Conversational Spanish.** One credit. Prerequisite: SPAN 2010 or permission of instructor. Conducted entirely in Spanish by a native speaker and designed to improve students' ability to converse fluently. Graded Pass/Fail. May be repeated for a maximum of 3 hours credit for the major; does not count for the minor.
- 3010, 3020 Advanced Spanish.** Three credits each. Prerequisite: SPAN 2020 or equivalent. Advanced-level practice in language skills of listening, speaking, reading, and writing, including review of Spanish grammar. Native Spanish speakers should consult with instructors before enrolling.
- 3015 Contemporary Cuba.** Three credits. Prerequisite: Permission of instructor. Taught in Cuba. Explores Cuban life and culture through history, education, health, economics, politics, art, society, music, and language. Credit may not be applied toward the major or minor in Spanish but may be counted toward the minor in Latin American Studies.
- 3030 Business Spanish.** Three credits. Prerequisite: SPAN 2020 or equivalent. Native speakers should consult with instructor. The linguistic and cultural skills necessary to conduct business in a Spanish-speaking setting.
- 3040 Intensive Conversational Spanish.** Three credits. Prerequisite: SPAN 2020 or permission of instructor. Intensive conversation practice in simulated and real-life situations.
- 3050 Introduction to Hispanic Studies.** Three credits. Prerequisite: SPAN 2020 or permission of instructor. Introduction to specialized study in three areas of Hispanic studies: language, culture, and literature.
- 3060 Introduction to Hispanic Culture.** Three credits. Prerequisite: SPAN 2020 or permission of instructor. Spanish and Spanish-American culture focusing on the geography, history, social institutions, values, and beliefs of Spanish-speaking societies.
- 3070 Introduction to Latin American Civilizations and Cultures.** Three credits. Prerequisite: SPAN 3010 or permission of instructor. Historical and cultural overview of Latin America from its early pre-Columbian origins to this region's dynamic realities in the twenty-first century.
- 3080 Introduction to Hispanic Literature.** Three credits. Prerequisite: SPAN 3020 or permission of instructor. Acquaints students with a basic knowledge of literary criticism and theory through the study of representative works from both Spanish and Spanish-American literature.
- 3120 Spanish Phonetics and Pronunciation.** Three credits. Prerequisite: SPAN 2020 or equivalent, or instructor permission. A practical introduction to phonetic principles involved in achieving native-sounding Spanish pronunciation, including sounds, stress, intonation, and smooth speech styles. Native Spanish speakers or students with native-like Spanish pronunciation may not take this course for credit without instructor permission.

- 3970, 3980 Cooperative Education.** Three credits. Provides students with opportunities for on-the-job training in conjunction with on-campus academic experiences. Students will participate in professional growth seminars. Requirements of the department and MTSU Cooperative Education Office must be completed to receive credit.
- 3990 Study Abroad.** Three to twelve credits. Prerequisites: One to two years of language study depending on the program, or approval of the instructor. Students will spend at least four weeks in a Spanish-speaking country studying Spanish language, literature, and culture. Students may earn credits in Murcia, Spain, or other study abroad programs approved by the Department of Foreign Languages and Literatures.
- 4010 History of the Spanish Language.** Three credits. Prerequisite: SPAN 3010 completed or currently enrolled. Traces the historical development of Spanish from Latin. Students also become familiar with the characteristics of Old Spanish.
- 4020 Spanish Literature I.** Three credits. Prerequisite: SPAN 3080 or permission of instructor. Spanish literature from its beginnings to 1700; emphasis on literary history, styles, and themes. Prose fiction and nonfiction, poetry, and drama included.
- 4030 Spanish Literature II.** Three credits. Prerequisite: SPAN 3080 or permission of instructor. Spanish literature from the eighteenth century to the present.
- 4040 Latin American Literature I.** Three credits. Prerequisite: SPAN 3080 or permission of instructor. Latin American literature from pre-Columbian times through Romanticism. Prose fiction and nonfiction, poetry, and drama included.
- 4045 Topics in Hispanic Cinema.** Three credits. Prerequisite: SPAN 3020 or permission of the instructor. A cultural study of the peoples and societies of Latin America and Spain through film.
- 4050 Latin American Literature II.** Three credits. Prerequisite: SPAN 3080 or permission of instructor. Major works of Latin American literature from the late nineteenth century to the present.
- 4060 Special Topics in Hispanic Studies.** Three credits. Prerequisite: SPAN 3080 or permission of instructor. Topics selected from specialized fields of language, culture, or literature.
- 4070 Special Topics in Spanish Literature or Culture.** Three credits. Prerequisite: SPAN 3080 or permission of instructor. Topics selected from specialized areas of peninsular Spanish literature or culture.
- 4080 Theory and Practice of Spanish Drama.** Three credits. Prerequisite: SPAN 3080 or permission of instructor. Drama theory and participation in a theatrical production.
- 4090 Special Topics in Latin American Literature or Culture.** Three credits. Prerequisite: SPAN 3080 or permission of instructor. Topics selected from specialized areas of Latin American literature or culture.
- 4900 Directed Readings in Spanish Literature and Culture.** One to six credits. Prerequisites: 15 hours of Spanish or permission of instructor. Individualized intensive reading in primary and secondary sources relating to a specific topic in Spanish literature or culture.

**4910 Directed Readings in Latin American Literature and Culture.** One to six credits. Prerequisites: 15 hours of Spanish or permission of instructor. Individualized intensive reading in primary and secondary sources relating to a specific topic in Latin American literature or culture.

**4920 Spanish for Reading Knowledge.** Three credits. Prerequisite: Admission to the College of Graduate Studies or permission of the instructor. For graduate students seeking proficiency in reading Spanish for research purposes. Open to undergraduates seeking to prepare for graduate study. Will not count toward a major or minor in Spanish or the undergraduate foreign language requirement.

**4958 Honors in Spanish Literature.** Three credits. Designed for students of advanced standing and superior academic ability. Admission only by permission of the Departmental Honors Committee and approval by the Honors Council. Proposals must be approved by midterm of the semester preceding enrollment in 4958.

### Graduate Study

The department offers the Master of Arts in Teaching degree. Requirements for this degree and a list of the courses offered for graduate credit are published in the Graduate Catalog.





# Department of Geosciences

**Ronald L. Zawislak, Chair**  
Kirksey Old Main 325B

**Abolins, Bordine, Cribb, Garbharran, Harris, Heffington, Hiatt, Henry, Nolan, O'Farrell, Ogden**

Courses in the Department of Geosciences are designed to meet the General Education needs of all students, to broaden their knowledge of the physical environment, to enhance their cultural development, and to provide a solid foundation for those planning to enter fields in which geographical and geological knowledge is essential.

The department offers programs leading to a Bachelor of Science degree with a major in Geoscience and concentrations in Geography or Geology. To provide the student with maximum opportunities for career preparation, the two concentrations are subdivided into six career patterns: geography for teachers, geography, and geographic techniques within the Geography concentration; and geology, earth science, and earth science for students within the Geology concentration. Proper selection of courses will permit a student to work as a professional in a chosen area, pursue graduate studies, or be licensed to teach.

Minors in Geography, Geology/Earth Science, and Remote Sensing are offered, and the department participates in the Environmental Science and Technology major.

The Geosciences Department also sponsors an internship program which provides opportunities to receive on-the-job training with various agencies employing persons with geographic/geologic training. Details of this program may be obtained from the department.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

## Major in Geoscience

All students pursuing the major in Geoscience must complete the General Education requirements and the departmental core requirements as follows:

- GEOL 1030 Introduction to Earth Science, 3 hours\*  
 GEOL 1031 Introduction to Earth Science Lab, 1 hour\*  
 OR student may substitute GEOL 1040 Physical Geology for GEOL 1030/1031  
 GEOL 2000 Introduction to Regional Geography, 3 hours\*\*

### Additionally:

#### For Geography concentration:

GEOG 4380 Cartography, 4 hours

#### For Geology concentration:

GEOL 3050 Field Methods in Geology, 2 hours

GEOL 3060 Computer Methods in Geology, 3 hours

\*Can also serve as part of General Education requirement for Natural Sciences

\*\*Can also serve as part of General Education requirement for Social/Behavioral Sciences

Following is a suggested pattern of study for the first two years; however, **consultation with the assigned advisor is necessary before registration.**

### Recommended Curriculum

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
Natural Sciences (2 prefixes)	8	HUM 2610 (Hum/FA)	3
Social/Behavioral Sciences	3	Humanities and/or Fine Arts	
COMM 2200 (Comm)	3	(2 prefixes)	6
Requirements as advised	10	HIST 2010, 2020, or 2030	6
	<b>30</b>	Social/Behavioral Sciences	3
		Mathematics	3
		Requirements as advised	9
			<b>30</b>

### Concentration: Geography

#### Career Pattern: Geography for Teachers

This program offers preparation for the student to meet professional requirements for teaching geography in the public schools and for graduate studies. This career pattern requires a minimum of 75 hours (in addition to the departmental core requirements).

#### Required courses (7 hours)

GEOG 3401 or 3402 Field Course

GEOG 4360 Cultural Geography

#### 17 hours from

- GEOG 3120 Geography of Tennessee  
 GEOG 3410 Geography of the United States and Canada  
 GEOG 3420 Geography of Latin America  
 GEOG 3430 Geography of Europe  
 GEOG 3440 Geography of Asia  
 GEOG 3460 Geography of the Former Soviet Union  
 GEOG 3470 Geography of Africa  
 GEOG 4280 Special Problems and Topics in Geography  
 GEOG 4310 Resource Management and Conservation  
 GEOG 4320 Economic Geography  
 GEOG 4330 Political Geography  
 GEOG 4340 Historical Geography  
 GEOG 4370 Urban Geography  
 GEOG 4470 Rural Settlement  
 GEOG 4500 Geography of the Middle East  
 GEOG 4540 Geography of Native Americans  
 GEOG 4550 Global Issues

#### Departmental Elective (3 hours)

In addition to major courses, the student must meet the following requirements:

1. A cognate (additional general education requirements) of 18 hours:
  - ANTH 2010 Cultural Anthropology
  - P S 1010 Foundations of Government
  - P S 3210 International Relations
  - P S 4220 World Politics
  - P S 4240 American Foreign Policy
  - SOC 1010 Introductory Sociology
2. A minor in Secondary Education (30 hours), involving education courses and directed teaching. Student must contact Secondary Education minor advisor for approval of appropriate courses for licensure. For specific procedures and additional requirements for teacher licensure, see appropriate catalog section.

**NOTE:** The Secondary Education minor has been revised. Please see page 193 and contact the Educational Leadership Department for information.

### Concentration: Geography

#### Career Pattern: Geography

This program is designed for students who plan to become professional geographers or who wish to pursue graduate study in geography and/or related fields. This career pattern requires a minimum of 75 hours (in addition to the departmental core requirements).

#### Required courses: (21 hours)

GEOG 1030 Physical Geography  
 GEOG 4360 Cultural Geography  
 GEOG 3401 or 3402 Field Course  
 GEOG 4550 Global Issues  
 GEOG 4490 Remote Sensing OR  
 GEOG 4520 Image Interpretation  
 GEOG 4530 Geographic Information Systems

#### Two of the following regional courses: (6 hours)

GEOG 3120 Geography of Tennessee  
 GEOG 3410 Geography of the United States and Canada  
 GEOG 3420 Geography of Latin America  
 GEOG 3430 Geography of Europe  
 GEOG 3440 Geography of Asia  
 GEOG 3460 Geography of the Former Soviet Union  
 GEOG 3470 Geography of Africa  
 GEOG 4500 Geography of the Middle East

#### Two of the following topical courses: (6 hours)

GEOG 4310 Resource Management and Conservation  
 GEOG 4320 Economic Geography  
 GEOG 4330 Political Geography  
 GEOG 4340 Historical Geography  
 GEOG 4370 Urban Geography  
 GEOG 4470 Rural Settlement  
 GEOG 4480 Recreational Geography  
 GEOG 4540 Geography of Native Americans

#### General Electives (6 hours)

Two minors (18 hours each) are required. These are to be selected in consultation with and approved by the major academic advisor.

### Concentration: Geography

#### Career Pattern: Geographic Techniques

This program provides basic skills in the methods used to acquire, analyze, and present spatial information about the Earth's surface. These techniques are widely employed by government and industry in natural resource and environmental management, urban and regional planning, utility management, and transportation planning. This career pattern requires a minimum of 75 hours (in addition to the departmental core requirements).

#### Required courses: (30 hours: 26 in GEOG and 4 in GEOL)

GEOG 1030 Physical Geography  
 GEOG 3401 or 3402 Field Course  
 GEOG 4490 Remote Sensing  
 GEOG 4510 Laboratory Problems in Remote Sensing  
 GEOG 4520 Image Interpretation  
 GEOG 4530 Geographic Information Systems  
 GEOG 4570 Advanced Geographic Information Systems  
 GEOL 4020 Geomorphic Regions of the United States

#### Departmental Elective (3 hours)

#### General Electives (6 hours)

Two minors (18 hours each) are required. These are to be selected in consultation with and approved by the major academic advisor.

### Minor in Geography

The minor in Geography requires 18 hours (all in courses with a GEOG designation) to be selected by the student and approved by a member of the faculty assigned as advisor. The minor will be specific enough to support the student's career plans.

### Concentration: Geology

#### Career Pattern: Geology

This program is designed for students who plan to become professional geologists or who wish to pursue graduate study in geology. The Geology career pattern consists of 93 hours distributed between major field core requirements (12 hours), career pattern requirements (39 hours), two cognates (19 hours and 18 hours), and general electives (5 hours). An additional 27 hours of General Education requirements are required.

#### Required courses: 39-43 hours

GEOL 1040 Physical Geology\*  
 GEOL 1050 Historical Geology  
 GEOL 3000 Mineralogy  
 GEOL 3050 Field Methods in Geology\*\*  
 GEOL 3060 Computer Methods in Geology\*\*  
 GEOL 3160 Geologic Literature and Report Writing  
 GEOL 4000 Petrology and Petrography  
 GEOL 4020 Geomorphic Regions of the United States  
 GEOL 4030 Invertebrate Paleontology  
 GEOL 4070 Sedimentation and Stratigraphy  
 GEOL 4080 Structural Geology  
 GEOL 4100 Geophysical Prospecting  
 GEOL 4130 Hydrogeology  
 GEOL 4580 Seminar in Geology

\*Not required of students with an A or B in both GEOL 1030 and GEOL 1031

\*\*Departmental core requirements

**Geology elective to be chosen from the following: (3 hours)**

GEOL 3010 Oceanography  
 GEOL 4140 Inorganic Geochemistry  
 GEOL 4110 Earth Geophysics  
 GEOL 4150 Environmental Applications of Hydrogeology  
 GEOL 4160 Geologic Remote Sensing

**Two cognates consisting of the following:****Cognate 1: 19 hours**

CHEM 1110 General Chemistry (w/lab)  
 CHEM 1120 General Chemistry (w/lab)  
 MATH 1910 Calculus I  
 MATH 1920 Calculus II  
 GEOG 4530 Geographic Information Systems

**Cognate 2: 18 hours**

BIOL 1110 General Biology  
 PHYS 2010, 2011 Non-Calculus-Based Physics (w/lab) OR  
 PHYS 2110, 2111 Calculus-Based Physics (w/lab)  
 (approved) Geology Field Camp in western U.S.  
 Math/Science elective (required approval by major academic advisor)  
 Plus 3 hours of Geoscience electives

*Second semester physics (PHYS 2020 or 2120 [with lab]) may be substituted for BIOL 1110. Computer Science I, CSCI 1170, and Probability and Statistics, MATH 2050, are strongly recommended.*

**Concentration: Geology****Career Pattern: Earth Science**

The earth science program has two curricula. One, **technical curriculum**, is designed for those desiring a general background in earth science. The second, **Earth Science for Teachers**, is for those planning to teach the earth sciences.

The **technical curriculum** consists of 89 hours distributed between major field core requirements (12 hours), career pattern requirements (11 hours), career pattern electives (18 hours), a cognate (18 hours), a minor (18 hours), and general electives (12 hours). The minor, which must be in Chemistry, Physics, Biology, Mathematics, or Computer Science, will be selected by the student and approved by the major academic advisor. An additional 31 hours of General Education requirements are required.

**Required courses: (16-20 hours)**

GEOL 1040 Physical Geology\*  
 GEOL 1050 Historical Geology  
 GEOL 3010 Oceanography  
 GEOL 3050 Field Methods in Geology\*\*  
 GEOL 3060 Computer Methods in Geology\*\*  
 GEOL 4020 Geomorphic Regions of the United States

\*Not required of students with an A or B in both GEOL 1030 and GEOL 1031

\*\*Departmental core requirements

**Electives to be chosen from the following: (18 hours)\***

ABAS 3340 Soil  
 GEOL 3000 Mineralogy  
 GEOL 4000 Petrology and Petrography  
 GEOL 4030 Invertebrate Paleontology  
 GEOL 4050 Meteorology  
 GEOL 4070 Sedimentation and Stratigraphy  
 GEOL 4080 Structural Geology  
 GEOL 4090 Problems in Geology  
 GEOL 4100 Geophysical Prospecting  
 GEOL 4130 Hydrogeology  
 GEOL 4150 Environmental Applications in Hydrogeology

\*22 hours if GEOL 1040 not taken

**Technical Cognate: (18 hours)**

GEOG 4530 Geographic Information Systems  
 MATH 1720 Plane Trigonometry  
 Additional 12 hours of technical electives to be approved by major academic advisor

**Science or Math Minor: (18 hours approved by major academic advisor)****Concentration: Geology****Career Pattern: Earth Science for Teachers**

The **Earth Science for Teachers** curriculum is designed for those who plan to teach earth science in the secondary school system. This curriculum consists of 97 hours distributed between major field core requirements (12 hours), career pattern requirements (8 hours), career pattern electives (14 hours), a cognate (33 hours), and a minor in Secondary Education (30 hours) involving education courses and directed teaching. An additional 27 hours are required for General Education. Student must contact Secondary Education minor advisor for approval of appropriate courses for licensure. For specific procedures and additional requirements for teacher licensure, see appropriate catalog section.

**NOTE:** The Secondary Education minor has been revised. Please see page 193 and contact the Educational Leadership Department for information.

**Required Courses: (8 hours)**

GEOL 1050 Historical Geology  
 GEOL 3401 or 3402 Field Course

**Fourteen (14) hours of electives to be chosen from:**

GEOL 3000 Mineralogy  
 GEOL 3010 Oceanography  
 GEOL 4000 Petrology and Petrography  
 GEOL 4020 Geomorphic Regions of the United States  
 GEOL 4030 Invertebrate Paleontology  
 GEOL 4070 Sedimentation and Stratigraphy  
 GEOL 4080 Structural Geology  
 GEOL 4130 Hydrogeology  
 GEOG 4310 Resource Management and Conservation  
 GEOG 4490 Remote Sensing  
 ABAS 3340 Soil

**Math/Science Cognate: (33 hours)**

CHEM 1010 General Chemistry (w/lab)  
 CHEM 1020 General Chemistry (w/lab)  
 PHYS 2010, 2011 Non-Calculus-Based Physics (w/lab)  
 PHYS 2020, 2021 Non-Calculus-Based Physics (w/lab)  
 BIOL 1110, 1120 General Biology (w/lab)  
 MATH 1720 Plane Trigonometry  
 GEOL 4050 Meteorology  
 ASTR 1030 Exploring the Universe OR  
 ASTR 3400 Fundamentals of Astrophysics

**Minor in Geology/Earth Science**

The minor in Geology/Earth Science requires GEOL 1040 (or GEOL 1030 and 1031 with a grade of A or B) and GEOL 1050 plus 10-14 additional hours at the 3000 level or above.

**Minor in Remote Sensing**

The minor in Remote Sensing consists of 19 semester hours to be taken in the sequence listed below:

GEOG 1030 Physical Geography  
 GEOG 4490 Remote Sensing  
 GEOG 4510 Laboratory Problems in Remote Sensing  
 GEOG 4520 Image Interpretation  
 GEOG 4530 Geographic Information Systems

## Courses in Geography [GEOG]

### Basic Courses

- 1030 Physical Geography.** Four credits. The physical earth as the home of humans. The global earth in space, tools of the discipline, the atmosphere, the hydrosphere, and the biosphere. Field trips may be required. Three hours lecture and two hours laboratory per week.
- 2000 Introduction to Regional Geography.** Three credits. Examination of world regions using the geographical perspective, identifying the main physical and cultural features, especially through the use of maps.
- 3120 Geography of Tennessee.** Three credits. Focuses on the diverse physical and human landscapes of the state. Topics covered include weather and climate, landforms, vegetation and soils, population patterns and trends, economic activities (including agricultural and geographical perspectives on social and environmental issues).

### Regional Geography

- 2105 Introduction to Latin American Studies.** Three credits. (Same as SPAN 2105, P S 2105, SOC 2105, ART 2105, ANTH 2105.) A multidisciplinary, team-taught introduction to Latin America. Covers the cultures and societies of the region: pre-history, history, geography, politics, art, languages, and literatures. Required course for all Latin American Studies minors.
- 3401- Field Course.** Four credits each. Supervised study in some geographical area, preceded by classroom preview and concluded by a time of evaluation. Emphasis on natural and cultural elements of the environment with special attention directed toward the pattern of human occupancy. For fees and specific credit, consult the instructor.
- 3410 Geography of the United States and Canada.** Three credits. Natural, cultural, and geographic environment of these regions.
- 3420 Geography of Latin America.** Three credits. Geographic regions of Mexico, Central America, the West Indies, and South America.
- 3430 Geography of Europe.** Three credits. General distribution of natural and cultural features of Europe followed by a detailed study of the regions and countries of the southern, central, and northwestern parts of the continent.
- 3440 Geography of Asia.** Three credits. Survey of the entire continent followed by a detailed study of the geographic regions outside the former Soviet Union with special emphasis on the Indian Realm, China, and Japan.
- 3460 Geography of the Former Soviet Union.** Three credits. Analysis of the natural, cultural, and human-use regions of the former Soviet Union.
- 3470 Geography of Africa.** Three credits. Survey of the physical and cultural features of Africa, followed by a detailed study of the geographic regions of the continent.
- 4500 Geography of the Middle East.** Three credits. An analysis of the problems, issues, and theories involved in understanding the physical, cultural, and regional geography of the area.

### Topical Courses

- 3720 Cultural Ecology.** Three credits. (Same as ANTH 3720.) Prerequisites: 3 hours anthropology or geography. Comparison of eco-

logical systems utilized by tribal, peasant, and industrialized peoples of the world. Special attention paid to the theoretical approaches examining the interface of the environment and culture, the evolution of modes of subsistence, and contemporary development and indigenous people.

- 4060 Principles of Geoscience.** Four credits. (Same as GEOL 4060).
- 4280 Special Problems and Topics in Geography.** One to six credits. (Variable credit.) Prerequisite: Must have equivalent of a minor in Geography. Research participation or guided readings in a particular area or topic appropriate to the student's interest and professional objectives.
- 4300 Military Geography.** One credit. An examination of geography as applied to the conduct of military forces in pursuing and securing national objectives.
- 4310 Resource Management and Conservation.** Three credits. Current problems related to intelligent use and management of environmental resources.
- 4320 Economic Geography.** Three credits. Relationship of the physical factors of the environment to the productive occupations of humans and the distribution of products.
- 4330 Political Geography.** Three credits. Significance of geographical factors in understanding political relationships within and among nations; spatial implications of political decision-making processes.
- 4340 Historical Geography.** Three credits. Prerequisite: GEOG 2000 or permission of instructor. The changing human geography of the United States during four centuries of settlement and development. Emphasis on changing population patterns as well as patterns of urban and rural settlement.
- 4360 Cultural Geography.** Three credits. Prerequisite: GEOG 2000 or permission of instructor. Description and explanation of spatial patterns and ecological relationships in human culture. Emphasis on "reading" the cultural landscapes.
- 4370 Urban Geography.** Three credits. An introduction to the development of towns, cities, and associated urban areas. Environmental problems also examined. Classroom analysis of various theories of urban development and data collected by field work.
- 4380 Cartography.** Four credits. General knowledge of the field including familiarity with the techniques and tools of professional cartography and graphics. Selected lectures, class discussions, and a series of map construction assignments. Three hours lecture and two hours laboratory per week.
- 4470 Rural Settlement.** Three credits. Prerequisite: GEOG 2000 or permission of instructor. A geographical analysis of forms, structures, and distribution of rural settlements in distinctive parts of the earth based upon their origin, function, and development. Special emphasis in analyzing rural settlements of middle Tennessee.
- 4480 Recreational Geography.** Three credits. A geographical analysis of natural and cultural factors influencing use of space for recreational purposes. Emphasis given to recreational land use in the United States and contemporary problems and conflicts. Lectures and field problems.
- 4490 Remote Sensing.** Four credits. The various aspects of remote sensing such as radar, satellite imagery, and infrared data. Use of data in preparation of maps and application to land use and environmental problems examined. Three hours lecture and two hours laboratory per week.



- 4510 Laboratory Problems in Remote Sensing.** Four credits. Prerequisite: GEOG 4490. Computer processing of selected satellite imagery. Laboratory will provide practical experience through design, execution, and completion of an applied remote sensing project.
- 4520 Image Interpretation.** Four credits. Principles, methods, and techniques of image interpretation, including maps, satellite data, and aerial photos.
- 4530 Geographic Information Systems.** Three credits. Lecture and laboratory work relative to computer-manipulated geographic data base. Laboratory work will involve experience in practical application of a geographic information system (GIS) to problem solving.
- 4540 Geography of Native Americans.** Three credits. Prerequisite: GEOG 2000 or permission of instructor. Lecture and field exercise format viewing America's native population from a geographic perspective. Native Americans will be examined geo-archeologically using geo-techniques to explore their past, present, and future; cultural ecologically—their symbiotic relationship with their surroundings; and through their economic and resource development—how they utilize natural and cultural resources that are presently on tribal lands.
- 4550 Global Issues.** Three credits. An examination of current global issues in the context of their geographic environment. Emphasis on geographic factors impacting those issues. Topics examined vary from year to year.
- 4570 Advanced Geographic Information Systems.** Three credits. Prerequisites: GEOG 4530 or introductory course in geographic information systems or equivalent; coursework in statistics and computer programming recommended. Advanced course in spatial analysis. Using spatial statistics, Visual Basic programming, and databases to solve problems involving proximity, density, clustering, the cost of travel paths, etc. Other major topics include environmental modeling and error analysis.
- 4571- Internship in Geography.** Three credits each. Prerequisites: **4572** Major or minor in geography; 15 hours of geography/geology with junior or senior standing; permission of employer and department. Practical experience for students in a professional setting relating to geographic work. Counted as a free elective, not part of major or minor requirements. After completion of one internship, 4571 or 4572, the other may be taken (total of 6 credits).
- 4772 Field Course in Historical Archaeology.** Three credits. (Same as HIST 4870.) Prerequisites: HIST 4860; ANTH 3210; or permission of instructor. Archaeological resources and procedures and the interpretation of historical evidence undertaken at a field archaeological site.

## Courses in Geology [GEOL]

- 1030 Introduction to Earth Science.** Three credits. The earth and its relationship to its space and environment emphasized. Forces and processes which combine to mold the face of the earth and its atmosphere, as well as the internal constitution of the earth. Three hours lecture. GEOL 1031 must be taken concurrently. Together, GEOL 1030 and 1031 satisfy 4 hours of the Natural Sciences portion of the General Education requirement.
- 1031 Introduction to Earth Science Lab.** One credit. Laboratory to accompany GEOL 1030.
- 1040 Physical Geology.** Four credits. The origin, composition, and structure of the solid earth: rock-forming minerals; igneous, sedimentary, and metamorphic rocks; earthquakes and plate tectonics; surface processes; geologic time. Identification and description of minerals and rocks in hand sample. Use of topographic and geologic maps. Three hours lecture and two hours laboratory per week.
- 1050 Historical Geology.** Four credits. Prerequisites: GEOL 1030 and 1031 or GEOL 1040. The major divisions of geologic time with emphasis on earth movements, sea fluctuations, life of the time, and the effect these have had on our present environment. Close attention to the development of the physiographic regions of North America, which are correlated with chronologically-similar events in other parts of the world. Topographic maps, geologic maps, and fossil animals and plants. Three hours lecture and two hours laboratory per week.
- 3000 Mineralogy.** Five credits. Prerequisites: GEOL 1030 and 1031 or 1040 or permission of instructor. Crystallography and crystal chemistry. Physical and chemical properties of silicate and non-silicate mineral groups. Examination of the common rock-forming minerals in hand sample and thin section. Four hours lecture and two hours laboratory per week.
- 3010 Oceanography.** Three credits. Prerequisites: GEOL 1030 and 1031 or 1040 or GEOG 1030; or consent of instructor. Physiography, structures, and sediments of the ocean floor; coastal and oceanic environments; and the nature of sea water, currents, waves, and tides. Geological processes, geophysical studies, and oceanographic instrumentation discussed.
- 3050 Field Methods in Geology.** Two credits. Prerequisites: Knowledge of trigonometry; GEOL 1030 and 1031 or 1040 and 1050; major or minor in Geoscience; or consent of instructor. Introduction to field observation in geoscience. Topics include tape and compass surveys, triangulation, orientation of rock strata, measurement of stratigraphic section, map preparation, and use of GPS. Two hours lecture/field work per week.
- 3060 Computer Methods in Geology.** Three credits. Prerequisites: GEOL 1030 and 1031 or 1040 and 1050; CSCI 1000; major or minor in Geology/Earth Science; or consent of instructor. Extensive use of personal computers for processing field data, map contouring, geologic reports and illustrations, lettering and cartography, image processing, geologic databases, and digital maps. Brief treatment of classical cartography. Four to five hours lecture/laboratory per week.
- 3160 Geologic Literature and Report Writing.** One credit. Prerequisites: CSCI 1000; GEOL 1030 and 1031 or 1040, and GEOL 3060; at least 8 semester hours of upper-division Geology courses. Acquisition and presentation of geological data from traditional library and database sources. Preparation of geologic field and laboratory reports in addition to professional reports and papers.
- 3401- Field Course.** Four credits each. Supervised study in some geological area preceded by classroom preview and concluded by a time of evaluation. Emphasis on the natural and physical elements of the environment, with special attention directed toward the geomorphology and geology of specific areas. For fees and specific credit, consult the director, division of geology.
- 3402**
- 4000 Petrology and Petrography.** Four credits. Prerequisite: GEOL 3000. Igneous, sedimentary, and metamorphic rocks. Theories of formation and evolution based upon mineralogical and geochemical evidence. Examination and classification of rocks in

hand sample and thin section. Three hours lecture and two hours laboratory per week.

- 4020 Geomorphic Regions of the United States.** Four credits. Prerequisites: GEOL 1030 and 1031 or 1040 and 1050. Origin, regional distribution, and geomorphic features and history of landforms of the United States. Students will be required to analyze maps, structure sections, and aerial photography to determine geomorphic forms and the forces and processes that produced these forms. Three hours lecture and two hours laboratory per week.
- 4030 Invertebrate Paleontology.** Four credits. Invertebrate and microscopic animal life of the past, including recently preserved representatives and their ancient fossilized ancestors. Numerous field trips to local fossil-collecting sites. Designed to aid in the preparation of earth science teachers, geologists, and biologists. Three hours lecture and two hours laboratory per week.
- 4050 Meteorology.** Three credits. A general, non-mathematical introduction to the atmosphere. Emphasis on main elements such as temperature, precipitation, clouds, and humidity. In-depth analysis of storms, tornadoes, and hurricanes and human alteration of the atmosphere such as the ozone hole. Weather forecasting and climate change.
- 4060 Principles of Geoscience.** Four credits. (Same as GEOG 4060). Topics include geology, geography, astronomy, meteorology, and oceanography. Specifically designed to aid in the preparation of earth science and geography teachers for public schools. Three hours lecture and two hours laboratory per week.
- 4070 Sedimentation and Stratigraphy.** Four credits. Prerequisites: GEOL 1050 and 3000 or consent of instructor. Sedimentary rocks, the processes of sedimentation, the alteration of sediments through time, and examination of resulting stratigraphic units. Designed for geoscience majors and those with interests in soil mechanics and civil engineering. Three hours lecture and two hours laboratory per week.
- 4080 Structural Geology.** Three to four credits. (Variable credit.) Prerequisites: Knowledge of trigonometry; GEOL 1030 and 1031 or 1040 and 3040; GEOL 1050 recommended. Orientation and deformation of rock. Geometric, analytical, and statistical solutions to structural problems. Emphasis on three-dimensional visualization, problem solving, geological map interpretation, and the mechanics of deformation. Lecture and laboratory.
- 4090 Problems in Geology.** One to six credits. (Variable credit.) Prerequisites: A minimum of 12 semester hours of geology (excluding GEOL 1030 and 1031) at least 6 hours of which must be upper division; consent of instructor. A problem-solving course. Includes an independent research-oriented project commensurate with the student's interests and qualifications. May be repeated up to a maximum of 6 hours.
- 4100 Geophysical Prospecting.** Four credits. Prerequisites: GEOL 3060; MATH 1910; PHYS 2010 or 2110; or consent of instructor. (PHYS 2020 or 2120, GEOL 1030 and 1031 or 1040, and MATH 1920 also recommended.) Survey of seismic, gravimetric, and magnetic/electrical exploration methods. An applied course covering some elementary theory, basic field practice, computation fundamentals, interpretation techniques. Three hours lecture and two hours laboratory per week.
- 4120 Environmental Geology.** Four credits. Prerequisites: GEOL 1030 and 1031 or 1040 or GEOG 1030 or consent of instructor. Application of geologic information to minimize possible environmental degradation and maximize utilization of resources in the

natural and modified environment; local examples and field trips. Topics include engineering properties of earth materials, natural hazard prediction and reduction, water supply, solid and hazardous wastes, mineral resources, global change, land-use planning, environmental impact analysis. Three hours lecture and two hours laboratory per week.

- 4130 Hydrogeology.** Four credits. Prerequisites: GEOL 1030 and 1031 or 1040; or consent of instructor. Basic processes and measurement of the hydrologic cycle, including precipitation, evaporation, surface runoff, stream flow, soil moisture, and ground water. Emphasis on ground water including geology of occurrence, principles of flow, conceptual models of regional flow, chemistry and quality, well hydraulics, aquifer characteristics, resource development, detection of pollutants, and contaminant transport. Lecture and laboratory.
- 4140 Inorganic Geochemistry.** Three credits. Prerequisite: GEOL 4000. Principles of inorganic geochemistry. Geochemistry of the earth and solar system, isotopic geochronometers, thermodynamics and rates of geochemical processes, chemical weathering, chemical compositions of surface and groundwater. Three hours lecture per week.
- 4150 Environmental Applications of Hydrogeology.** Three credits. Prerequisite: GEOL 4130. An advanced course in hydrogeology that emphasizes applied methods for assessing hazardous and solid waste facilities and contaminated ground water remediation techniques. Included will be site characterization methods, ground water sampling procedures, and monitoring well installation techniques. Three hours lecture per week.
- 4170 Applied Geochemistry.** Three credits. Prerequisites: GEOL 1030 and 1031 or 1040 plus CHEM 1010 and 1011 or CHEM 1110 and 1111. Theory and application of geochemical techniques to the study of geologic problems. Sample preparation and analysis of geologic materials using departmental instrumentation. Two hours lecture and two hours laboratory per week.
- 4571- Internship in Geology.** Three credits each. Prerequisites: Major **4572** or minor in geology; 15 hours of geology/geography with junior or senior standing; permission of employer and department. Practical experience for students in a professional setting relating to geologic work. Counted as a free elective, not as a part of major or minor requirement. After completion of one internship, 4571 or 4572, the other may be taken (total of six credits).
- 4580 Seminar in Geology.** One credit. Prerequisite: Senior standing in geology. A reading and discussion seminar in which current topics in the geological sciences are examined to broaden the major's knowledge of the scope and literature of the discipline.

Some departmental courses may be accepted in either concentration; others are accepted only in one concentration. Substitutions are made at the discretion of the department chair in consultation with the academic advisor.

### Honors College

The Department of Geography and Geology offers the following courses in Honors: GEOG 2000, GEOL 1030.

### Graduate Study

The department offers minors in Geography and Earth Science/Geology at the graduate level and a graduate certificate in Geoscience. The list of available courses offered can be found in the Graduate Catalog.

# Department of History

**Thaddeus Smith, Chair**  
Peck Hall 223

**Bakari, Beemon, Brookshire, Chao, Colvin, Conard, Crawford, Foster, Garrison, Haas, Hoffschwelle, Holloway, Hunt, Jones, Leone, Martin, McCusker, McWatters, Myers-Shirk, Nelson, Pruitt, Renn, Rowe, Rupprecht, Scherzer, Staples, West, Williams**

Courses in the Department of History are designed to meet the General Education needs of all students as well as to provide a solid foundation for those planning to pursue careers in history, law, journalism, business, and other fields.

The department offers a Bachelor of Arts degree in History and a Bachelor of Arts degree in History (teaching). The department also offers a minor in History.

Interdisciplinary minors coordinated through the Department of History include Media, History, and Culture; Environment and Human Society; Medieval Studies; Southern Studies; Twentieth-Century European Studies; and American Culture.

## General Requirements

All students seeking a degree from the University must complete 6 semester hours in General Education History, selected from HIST 2010, 2020, and 2030. Sophomore-level standing (or above) is recommended for 2010, 2020, and 2030. For General Education Humanities and/or Fine Arts, one course of Western Civilization (1010, 1020) or of World Civilizations (1110, 1120) may be taken (see pages 60–63).

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

## Major in History (B.A.)

A major in History consists of 30 semester hours, 24 of which must be at the upper-division level. The courses must consist of 1010 or 1110; 1020 or 1120; 3010 (Historian's Craft); two upper-division courses selected from each of the following areas: global, European, and U.S.; and one additional upper-division elective course. The student must also fulfill all the other requirements for the B.A. degree (see page 56). History majors are to see their departmental advisors at least once per semester.

## Recommended Curriculum

FIRST YEAR		SECOND YEAR	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
COMM 2200 (Comm)	3	HUM 2610 (Hum/FA)	3
Foreign Language 1010, 1020	6	Foreign Language 2010, 2020	6
HIST 1010 (Hum/FA), 1020 or		HIST 2010, 2020, or 2030	6
1110 (Hum/FA), 1120	6	Natural Sciences	4
Natural Sciences	4	Minor(s)/Electives	9
Computer Literacy	1	Humanities and/or Fine Arts	3
Social/Behavioral Sciences			<b>31</b>
(2 prefixes)	6		
MATH 1010 (Math)	3		
	<b>35</b>		
THIRD YEAR		FOURTH YEAR	
HIST 3010	3	Upper-division history,	
Upper-division history,		U.S., European, Global	
U.S., European, Global,		electives	12
electives	12	Minor(s)/Electives	15
Minor(s)/Electives	12		<b>27</b>
	<b>27</b>		

## Minor in History

A minor in History requires 18 semester hours. Students choose one course from HIST 1010, 1020, 1110, or 1120 and one course from HIST 2010, 2020, 2030, 2040, or 2050. The remaining 12 hours should be chosen from United States, European, and global courses and one upper-division elective.

## Major in History (B.A.) with Teacher Licensure

A major in History with teacher licensure consists of 24 semester hours at the upper-division level. Also included are courses in HIST 1110, 1120, 2010, 2020, 2030, and 3010 (Historian's Craft). Two upper-division courses must be selected from each of the following areas: global, European, and U.S. The student must also fulfill all the other requirements for the B.A. degree (see page 56).

## Teacher Licensure

Students seeking a license to teach history in secondary schools (grades 7-12) must complete (1) a major in History, (2) additional teacher licensure requirements, and (3) the Secondary Education minor requirements.

## Additional Teacher Licensure Requirements

HIST 1120

One of the General Education Social/Behavioral Sciences courses (GEOG 2000, P S 1010, P S 2010, or ECON 2410) plus 9 hours in the same discipline as course selected

## Secondary Education Minor Requirements

Students must contact the Secondary Education minor advisor for approval of appropriate courses. (For specific procedures and additional requirements for teacher licensure, see page 188.)

**NOTE:** The Secondary Education minor has been revised. Please see page 193 and contact the Educational Leadership Department for information.

**Recommended Curriculum****FIRST YEAR**

ENGL 1010, 1020 (Comm)	6
Foreign Language 1010, 1020	6
HIST 1110 (Hum/FA)	4
Natural Sciences	3
GEOG 2000 (Soc/Beh Sci)	3
Humanities/Fine Arts	3
P S 1010, P S 2010, or ECON 2410 (Soc/Beh Sci)	3
MATH 1010 or 1710 (Math)	3
<b>31</b>	

**THIRD YEAR**

Emphasis for licensure in either GEOG, ECON, PS HIST 3010	9
Upper-division history U.S., European, Global electives	3
Minor(s)/Electives	9
<b>30</b>	

**SECOND YEAR**

ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
HIST 1120 (Licensure)	3
COMM 2200 (Comm)	3
Foreign Language 2010, 2020	6
HIST 2010, 2020, and 2030 or 3060	9
Natural Sciences	4
Minor(s)/Electives	6
<b>34</b>	

**FOURTH YEAR**

Upper-division history U.S., European, Global electives	15
Minor(s)/Electives	14
<b>29</b>	

**Interdisciplinary Minors**

Interdisciplinary minors are open to all students in the University. The Department of History coordinates the interdisciplinary minors in Media, History, and Culture; Environment and Human Society; Medieval Studies; Southern Studies; Twentieth-Century European Studies; and American Culture. See Interdisciplinary Minors beginning on page 76.

**Courses in History [HIST]**

**1010 Survey Western Civilization I.** Three credits. A survey of Western humanity from the earliest cultures to 1715. **May be used to satisfy one part of the General Education Humanities and/or Fine Arts requirement. Student may not take both 1010 and 1110 for credit. HIST 1010 is NOT a prerequisite for HIST 1020.**

**1020 Survey Western Civilization II.** Three credits. A survey of Western humanity since 1715. **May be used to satisfy one part of the General Education Humanities and/or Fine Arts requirement. Student may not take both 1020 and 1120 for credit.**

**1110 Survey World Civilization I.** Three credits. A global approach to history, with cultural interchange as a major thematic focus; reasons for the rise and decline of civilizations. **May be used to satisfy one part of the General Education Humanities and/or Fine Arts requirement. Student may not take both 1010 and 1110 for credit. HIST 1110 is NOT a prerequisite for HIST 1120.**

**1120 Survey World Civilization II.** Three credits. The impact of Western expansion upon the indigenous civilizations of Asia, Africa, and the Americas; their mutual interchange in the creation of the modern world. **May be used to satisfy one part of the General Education Humanities and/or Fine Arts requirement. Students may not take both 1020 and 1120 for credit.**

**2010, 2020 Survey of United States History I, II.** Three credits each. Survey of the political, economic, social, cultural, and diplomatic phases of American life in its regional, national, and international aspects. HIST 2010 discusses the era from the begin-

ning to 1877. HIST 2020 discusses the era from 1877 to the present. **These courses are prerequisite for all advanced courses in American history and satisfy the General Education History requirement. HIST 2010 is NOT a prerequisite for HIST 2020.**

**2030 Tennessee History.** Three credits. The role of the state in the development of the nation. **May be used to satisfy a General Education requirement.**

**2040 Survey African-American History I.** Three credits. (Same as AAS 2040.) The role of African Americans in establishing and shaping the American nation. Covers their historical development and contributions to American art, music, literature, and religion.

**2050 Survey African-American History II.** Three credits. (Same as AAS 2050.) The role of African Americans in shaping the American nation and creating a twentieth-century racial identity. Covers their historical development and examines their contributions to American art, music, literature, and religion.

**Upper-Division Course Offerings**

Six hours of HIST 2010, 2020, or 2030 are required of all students and are prerequisite to all upper-division American History courses. Three hours of HIST 1010, 1020, 1110, OR 1120 are prerequisite for all other courses. Exceptions are stated in the course descriptions or may be made by the department.

**3010 The Historian's Craft.** Three credits. Investigates the full range of activities of professional historians, teaches skills of research and writing history, and prepares students to enter the professional job market or to seek further education. Required for all History majors.

**3020 Topics in American History.** Three credits. A detailed analysis of selected historical controversies. Topics vary from year to year.

**3030 Topics in African American History.** Three credits. A seminar course exploring selected topics and problems in the African-American experience since 1619. Possible topics include the Great Migration, the life and work of Malcolm X, Pan-Africanism, Caribbean enslavement, the African-American church, the African-American woman, African-American education, and the Harlem Renaissance. **This course may not be repeated for credit in either the major or minor.**

**3040 Topics in American Cultural History.** Three credits. Literature, arts, social sciences, and popular culture examined with regard to a particular topic (such as the history of sexuality or the history of cultural rebellion) in order to understand how Americans have reacted to conflicting values in society.

**3050 Topics in Southern Studies.** Three credits. Detailed examination of a particular topic important to the region's society, life, and development.

**3060 Topics in Tennessee History.** Three credits. Prerequisites: HIST 2010, 2020, and 3010. Detailed examination of a pertinent topic; topics will vary. Students may take HIST 3060 for credit twice but permission of the department is required for the second enrollment.

**3070 Topics in World History.** Three credits. A detailed examination of a topic pertinent to world history. Topics vary.



- 3080 Topics in Modern Middle East History.** Three credits. A major problem or political or social development in the contemporary Middle East.
- 3090 Topics in European History.** One to three credits. Selected problems in European history assigned for individual study. Emphasis on student's mastery of assigned material through independent study and consultation with a faculty director.
- 3110 Explorations in Public History.** Three credits. Historical artifacts with special emphasis on eighteenth- and nineteenth-century American architecture and furnishings. Related work in techniques of genealogical research. Readings, discussions, reports, and field trips.
- 3120 Military History of the United States.** Three credits. Particular emphasis on land warfare; examines battles, campaigns, and wars and the military's relationship to American governmental, societal, technological, and managerial patterns.
- 3130 The Vietnam War.** Three credits. Examines military, diplomatic, political, and cultural aspects of the Vietnam War. Causes of the war; interplay between military, diplomatic, and domestic policy; historical memory of the conflict through analysis of texts, oral histories, films, and material culture.
- 3140 Latin American History.** Three credits. Prerequisites: HIST 1010 and 1020 or 1110 and 1120 recommended. Examines the chronological and basic periods, themes, and topics of Latin America's economic, social, political, and cultural histories from pre-Columbian times to the present.
- 3150 Global History: 1945-1975.** Three credits. An integrated examination of major themes and selected area studies of the post-war world. Themes include the cold war, emergence of independent countries, economic globalization, religious stirrings, massive migrations, social revolution.
- 3160 Study Abroad in Africa.** Six credits. Theoretical as well as first-hand experience on the history and cultures of Africa. **Course may not be repeated for additional history hours.**
- 3170 History of the American South in Film.** Three credits. Explores the South's image in major motion pictures during the twentieth century. Examines the links between the portrait of the South on screen and the particular social, political, cultural, and economic concerns of the historical period in which the films were made.
- 3180 History of Modern War in Film.** Three credits. Modern war as presented in major motion pictures. Analyzes the cultural responses to war in the twentieth and twenty-first centuries through movies made about war.
- 4010 Colonial America.** Three credits. Exploration and colonization of North America, relations between Native Americans and Europeans, and the development of colonial societies and identity from 1492 to 1760.
- 4020 The American Revolution.** Three credits. Examines international conflicts from the Seven Years' War through the War of 1812, while emphasizing political, social, intellectual, and economic developments in the new United States.
- 4030 Jacksonian America, 1815-1850.** Three credits. Major political, social, and economic developments in the awakening of American nationalism, Jacksonian democracy, expansionism, and the Mexican War.
- 4040 Civil War and Reconstruction.** Three credits. Sectional differences of the 1850s, Civil War, Reconstruction, and the Grant Era.
- 4050 Modern America, 1877-1914.** Three credits. The nature and consequences of the shift of the United States from an agrarian to an urban and industrialized society between Reconstruction and World War I.
- 4060 Modern America, 1914-1945.** Three credits. The increasing involvement of the United States in world affairs from World War I through World War II and the social and political consequences of economic complexity which resulted in prosperity, depression, and the New Deal.
- 4070 Modern America, Post-1945.** Three credits. The major social, political, economic, and diplomatic developments in the history of the United States from 1945 to the present with particular emphasis on the role of government.
- 4130 The Sunbelt.** Three credits. The rise of the Southern rim of states—from Kitty Hawk to Hollywood—as influenced by such figures as D. W. Griffith, Margaret Mitchell, Walt Disney, Lyndon Johnson, Martin Luther King, Cesar Chavez, Elvis Presley, Sam Walton, and Ronald Reagan.
- 4140 Sections in American History: The West.** Three credits. The role of the frontier in American history. Emphasis on the trans-Mississippi West.
- 4150 The American South.** Three credits. Major themes that have created and recreated Southern culture from the Colonial period to the present. Explores the major social, political, and economic factors that made and remade the region through time.
- 4210 Middle Ages.** Three credits. The progress of medieval civilization with emphasis on the period from 1100 to 1300.
- 4212 Intellectual and Cultural History of Early Modern Europe.** Three credits. Examines major trends and movements in artistic, literary, social, economic, political, scientific, and religious thought in cultural context and diffusion in society, and how these trends and movements have changed European concepts since the Enlightenment. Begins about 1200 to establish a background and then focuses on 1400 to 1789.
- 4213 Intellectual and Cultural History of Modern Europe.** Three credits. Examines major trends and movements in artistic, literary, social, economic, political, scientific, and religious thought in cultural context and diffusion in society, and how these trends and movements have changed European concepts since the Enlightenment. Begins about 1650 then focuses on 1789 to the present.
- 4220 Renaissance Europe.** Three credits. Examines the political, economic, social, intellectual, and cultural developments of Italy, France, England, Germany, and the Low Countries during the fourteenth through the seventeenth centuries.
- 4230 Reformation Europe.** Three credits. Examines the political, economic, social, intellectual, and cultural developments of Italy, France, England, Germany, and the Low Countries during the sixteenth and seventeenth centuries.
- 4240 Europe: Absolutism and Enlightenment.** Three credits. European history in the seventeenth and eighteenth centuries, covering social, economic, intellectual, and political developments.

- 4250 Europe: The French Revolution and Napoleon.** Three credits. The social, political, and economic aspects of the Old Regime the French Revolution, and the Napoleonic period in European history.
- 4260 France Since 1870.** Three credits. The social, political, intellectual, cultural, and economic history of France from the origins of the Third Republic to the present.
- 4270 Europe 1815-1900.** Three credits. Nineteenth-century Europe.
- 4280 Europe 1900-1939.** Three credits. Europe in the early twentieth century with emphasis on the impact of continued industrialization, total war, and totalitarian ideologies.
- 4290 Europe Since 1939.** Three credits. Major European countries and themes from World War II to the present.
- 4310 Germany to 1870.** Three credits. The evolution of the German states from their Indo-European origins to their unification in a single German nation in 1871 with particular emphasis on the history of German men and women since the Middle Ages. The history of Austria and its possessions also included.
- 4320 Germany Since 1870.** Three credits. History of Germany from national unification in 1871 through its reunification in the contemporary world. Emphasis on the major social, cultural, political, intellectual, and economic developments of the period as they relate to both German men and women. The history of the Austro-Hungarian empire (1867-1918) and the modern Austrian state also included.
- 4330 Russia to the Twentieth Century.** Three credits. Russian history from its beginnings to the end of the nineteenth century.
- 4340 Russia in the Twentieth Century.** Three credits. A continuation of 4330 emphasizing the Revolution and the Soviet era.
- 4350 England to 1783.** Three credits. English history from earliest times to the end of the American Revolution with emphasis on major political, cultural, economic, and social developments.
- 4360 Britain in the Nineteenth Century.** Three credits. Political, economic, diplomatic, military, and cultural developments from the end of the Napoleonic era to Gladstone's retirement in 1894.
- 4370 Britain in the Twentieth Century.** Three credits. Political, military, imperial, economic, and social history of a changing Britain in its century of total war, imperial decline, and economic readjustment.
- 4410 Classical History.** Three credits. Ancient Greece and Rome, from about 2,000 B.C. to A.D. 476, emphasizing the classical historians, Greek and Roman culture.
- 4420 The Medieval Mediterranean World.** Three credits. Examines the political, economic, social and intellectual, and cultural development of the countries bordering the Mediterranean.
- 4430 Sub-Saharan Africa.** Three credits. (Same as AAS 4430.) Prerequisite: HIST 2040, 2050, 1010, 1020, 1110, or 1120 or AAS 2040 or 2050. Survey of the history of Africa from prehistoric times to the present. Emphasis on the early African kingdoms, European imperialism and colonialism, and the role of Africa as a contemporary world force.
- 4440 The Middle East.** Three credits. The rise and spread of Islam, the Ottoman Empire, European imperialism in the Middle East, and contemporary developments. Emphasis on cultural contributions of the Middle East to Western civilization.
- 4450 Japan.** Three credits. Japanese history from the formation of the first Japanese political state to the country's emergence as a post-World War II economic superpower.
- 4460 China.** Three credits. Chinese history from antiquity to the present People's Republic, stressing social history and the unique cultural features defining China's civilization.
- 4470 Canada.** Three credits. Canadian history from the colonial era to the present.
- 4480 South America.** Three credits. Cultural, economic, and political traditions since 1492.
- 4490 Mexico and the Caribbean.** Three credits. (Same as AAS 4490.) The development of cultural, economic, and political traditions since 1492.
- 4510 Colonial Latin America.** Three credits. Examines the indigenous societies present before European colonization and the first encounters in Mexico, the Caribbean, and South America. Analyzes political structures imposed by the Spanish as well as the social and cultural implications of colonialism and miscegenation.
- 4520 Modern Latin America.** Three credits. Prerequisite: HIST 1010, 1020, 1110, 2040, or 2050. Nineteenth- and twentieth-century Latin America. Examines colonial background, then focuses on the post-Independence period. Explores economic, political, social, and cultural developments since Independence.
- 4530 Latin American-United States Relations.** Three credits. Relations between the United States and Latin America in the nineteenth and twentieth centuries with emphasis on the effect of cultural differences on inter-American diplomacy.
- 4610 History of Medicine.** Three credits. Medical developments and the relationship between medicine and society. Examines two medical traditions: the West and China. Focus not only on major developments in medicine but also on the systems of healing in these cultures; compares roles medicine played within these societies. Also investigates impact of Western scientific medicine on various systems of traditional medicine.
- 4620 American Medical History.** Three credits. History of health in the United States and the changing role and perception of the medical profession from 1607 to the present.
- 4630 Quantitative History.** Three credits. Examines quantitative reasoning in historical research. Covers historiographical questions and practical research skills. Includes historical causality, historical change over time, data preparation, sampling, and the interpretation of quantitative data.
- 4640 Environmental History.** Three credits. Traces environmental change in America from the Puritans to the present and from wilderness to suburbia. Explains impact of growth, settlement, and resource exploitation on our national landscape and institutions.
- 4650 Religious Experience in America.** Three credits. Explores the nature of religion as experienced in American history focusing on the questions "How has religion affected America?" and "How has America affected religion?" Emphasis on the nineteenth and twentieth centuries and on the contact of and exchanges among

traditions such as Protestant/Catholic Christianity, Judaism, Islam, and Animism.

- 4660 American Architectural History.** Three credits. An analysis of the historical development of American architecture and of architecture as evidence of America's cultural, social, economic, and technological growth from 1607 to the present.
- 4670 American Urban History.** Three credits. Development and growth of cities and suburbs from the colonial period to the present with particular emphasis on urban institutions, problems, politics, culture, and society.
- 4680 History of Sport in America.** Three credits. The role of sport in American society from the colonial era to the present, with emphasis on how sporting activities reflect political, cultural, and economic characteristics of various time periods.
- 4690 Native American History.** Three credits. The North American Indian from the entrance into the New World until the present with emphasis on relationships among tribes, economic development, prominent personages, and adaptation to white culture.
- 4710 American Biography.** Three credits. Lives and achievements of men and women most prominent in American history. Selected biographies and autobiographies will be read and analyzed.
- 4720 Boone's and Crockett's America.** Three credits. Prerequisites: HIST 2010 and 2020 required. The mass movement of farm families into the interior of North America before 1860. Emphasis on Native American life, frontier politics, society, and culture, as well as the subsequent development of a "frontier myth" celebrating this folk migration.
- 4730 American Social History.** Three credits. Examines class, ethnicity, family life, and community in America from the colonial period to the present.
- 4740 American Cultural and Intellectual History.** Three credits. Explores the major issues in American cultural and intellectual history through an examination of American literature, philosophy, social sciences, fine arts, and popular culture.
- 4750 African American Social and Intellectual History.** Three credits. (Same as AAS 4750.) The changing ideology of race and the socioeconomic status of African Americans in the American experience; contributions to the culture and institutions of the United States.
- 4760 America Divided: Race, Class, and Gender.** Three credits. Interaction of race, class, and gender in the lives of Americans within historical frameworks and how such interactions have shaped American social and political institutions.
- 4770 Women in America to 1890.** Three credits. Examines women's roles in the United States from colonial times to 1890, emphasizing experiences of different classes, races, and ethnic groups; work, family, and politics.
- 4780 Women in America Since 1890.** Three credits. Examines women's roles in the United States since 1890, emphasizing experiences of different classes, races, and ethnic groups; work, family, and politics.
- 4790 Women in Europe Since 1700.** Three credits. A comparison of the social, intellectual, cultural, political, and economic history of women's lives in Great Britain, France, Germany, and Russia/USSR in the modern era.
- 4810 History of Women in the Third World.** Three credits. Connections between modern colonialism and development of third-world feminisms. Focuses first on conquest and colonialism and the consequences for third-world women. Focus moves to post-colonial societies and expands to include women's political, economic, and social roles in the three regions of Africa, China, and Latin America.
- 4820 American Diplomatic History to 1900.** Three credits. An examination of United States foreign relations to 1900.
- 4830 American Diplomatic History Since 1900.** Three credits. An examination of United States foreign relations since 1900.
- 4840 World War II.** Three credits. Examines various aspects of the military, diplomatic, social, economic, and cultural changes caused by the global cataclysm of World War II.
- 4850 Material Culture Resources in World History.** Three credits. The material culture resources (architecture, furniture, tools, utensils, weapons, ceremonial objects, etc.) of the world's major civilizations. Provides a basis for studying how various cultural styles have influenced the development of our own material culture resources.
- 4860 Historical Archaeology.** Three credits. Disciplines of historical archaeology, including examination of archaeological evidence, historical documentation, and interpretation of evidence.
- 4870 Field Course in Historical Archaeology.** Three credits. (Same as GEOG 4772.) Prerequisites: HIST 4860; ANTH 3210; or permission of instructor. Archaeological resources and procedures and the interpretation of historical evidence undertaken at a field archaeological site.
- 4898 Honors in History.** Three credits. For students of advanced standing and superior academic ability. Admission only by permission of the Department Honors Committee and approval by the University Honors Subcommittee.
- 4910 Principles of Archival Administration.** Three credits. The theory, principles, and techniques employed by archivists and curators of manuscript of collections. Stresses the importance of records preservation for scholars, business, government, and the public at large.
- 4920 Development of the Local History Museum.** Three credits. An overview of the development of museology, museography, and museum administration. Emphasizes approaches for identifying and solving typical problems encountered by the local history museum.
- 4930 Fundamentals of History Preservation and Cultural Restoration Management.** Three credits. Intensive study of procedures employed by federal, state, and local agencies in the day-to-day work of locating, recording, restoring, and preserving the historical, architectural, and cultural resources of the United States.
- 4950 Public History Internship.** Three credits. Student is assigned to a public or private agency or organization in an employment status related to historic preservation.
- 4960 Advanced Projects in Historic Preservation.** Three credits. Applied project experience in a community setting. Interested students should consult the department chair before enrolling.

### Honors College

The Department of History offers the following courses in Honors:

- History 1010 (Fall Semester)
- History 1020 (Spring Semester)
- History 1110 (Fall Semester)
- History 1120 (Spring Semester)
- History 2010 (Fall Semester)
- History 2020 (Spring Semester)
- History 4898 (every semester)

### Graduate Study

The department offers the Master of Arts and Doctor of Arts degrees. Requirements for these degrees and a list of the courses offered for graduate credit are published in the Graduate Catalog.





# Robert W. McLean School of Music

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**George T. Riordan, Director**  
**Wright Music Building 150**

**Aliquo, Arndt, Bills, Boone Allsbrook, Bundage, Cancryn, Cornish, Davila, Dent, Douglass, Hahn, Isley-Farmer, Jamison, Linton, Loucky, McKay, Miyakawa, Nies, Osterfield, Perkins, Petrescu, Pigg, Shearon, Simmons, Smith, Thomas, Tipps, Waldecker, Wells, Yelverton**

The purposes of the McLean School of Music are to prepare professional musicians; to prepare teachers of music for elementary and secondary schools; to prepare individuals for careers in music-related business and industry; to offer music courses and musical participation to students whose studies are concentrated in fields other than music; to enrich the music life of the University, and to provide a leadership role in the region by actively participating and collaborating with those individuals who share mutual interest in supporting music and musicians.

The school offers programs leading to the Bachelor of Music degree. Students may choose from seven concentrations within this major—Instrumental Music Education, Vocal/General Music Education K-12, Voice Performance, Instrumental Performance, Music Industry, Theory-Composition, and Jazz Studies. Minors in Music, American Music Studies, and Music Industry are also available.

The Philip C. Howard Music Library, located within Instructional Media Resources in LRC 101, houses audio and video recordings, musical scores, and reference materials. Anyone with a valid MTSU ID may borrow scores. Recordings circulate only to faculty and staff but may be used by anyone in-house.

The McLean School of Music has been an accredited baccalaureate and graduate degree granting institutional member of the National Association of Schools of Music since 1970. The Bachelor of Music degree programs with concentrations in Instrumental Music Education and Vocal/General Music Education K-12 are accredited by the National Council for Accreditation of Teacher Education (NCATE).

The McLean School of Music encourages its students to consider study abroad. MTSU is a member of two study-abroad consortia: KIIS (Kentucky Institute for International Studies) and CCSA (Cooperative Center for Study Abroad). Students may earn academic credit for their participation in these programs, and financial aid from

MTSU may be used for them. Interested students should contact the Study Abroad Office, (615) 898-5179, and check the consortia Web sites at [www.kiis.org](http://www.kiis.org) and [www.nku.edu/ccsa](http://www.nku.edu/ccsa).

## Requirements for Admission to the Bachelor of Music Degree

To be admitted into the Bachelor of Music degree program, all entering students must pass an audition before the faculty on their major instrument or voice. Students who do not pass the audition may be allowed, at the discretion of the faculty, to enroll in private music lessons or class instruction for one semester only. At the end of the semester the student must re-audition for admission into the program.

In addition, all prospective new or transfer undergraduate majors and minors are required to take the *Music Theory and Aural Skills Diagnostic Exam* to determine appropriate placement in the music theory program. For additional information and to schedule a time for the exam, contact the McLean School of Music Office, Wright Music Building, Room 150, (615) 898-2469. Students may not enroll in any music theory course until the exam is taken.

Students seeking a Bachelor of Music degree should refer to *The McLean School of Music Undergraduate Student Handbook* that serves as the official document of the school concerning specific additional degree requirements and school policies and procedures. It is essential that all music majors consult their advisors each semester.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60-63.**

## All Bachelor of Music Concentrations Require the Following:

### General Education Requirements - 41 hours

#### Music Core Curriculum - 26 hours

MUS 1010	Recital Attendance (6 semesters)	0 credit
MUTH 1110	Theory and Aural Skills I	4 credits
MUTH 1120	Theory and Aural Skills II	4 credits
MUHL 1610	Music History I	2 credits
MUHL 1620	Music History II	2 credits
MUTH 2110	Theory and Aural Skills III	3 credits
MUTH 2120	Theory and Aural Skills IV	3 credits
MUHL 2610	Music History III	2 credits
MUHL 2620	Music History IV	2 credits
MUTH 4130	Instrumentation	2 credits
MUS 3140	Basic Conducting	2 credits

*All music majors must take class piano or private piano instruction until they pass the piano proficiency examination prescribed by their degree programs. Students should see their advisors for details.*

**Students must earn a grade of C- or higher in MUTH 1110, 1120, 2110, 2120 (music theory sequence) and MUHL 1610, 1620, 2610, 2620 (music history sequence).**

## Teacher Licensure

Students seeking a license to teach music in the public schools must complete (1) a major in Music following the concentration in either Instrumental Music Education or Vocal/General Music Education K-12, (2) minor in Secondary Education, (3) the General Education Program, and (4) additional teacher licensure requirements. Students must contact a Secondary Education minor advisor for additional details and requirements relating to Teacher Licensure (see page 188).

**NOTE:** *The Secondary Education minor has been revised. Please see page 193 and contact the Educational Leadership Department for information.*

## Jury Examinations

All music majors and minors are required to participate in jury examinations in their primary performing areas. Non-music majors registered for private lessons may be required to perform a jury examination at the discretion of the instructor. Jury examinations are held to measure the student's progress at the conclusion of each semester. Those students who have presented and passed their senior recitals during the semester may be excused from jury examinations.

## Concentrations in Music

Students majoring in Music must pursue one of seven concentrations. Requirements for each concentration follow:

### Concentration 1: Instrumental Music Education

MUED 1310	Woodwinds I	1
MUED 1320	Percussion I	1
MUED 1330	Brass I	1
MUED 1410	Strings I	1
MUS 1530	Class Piano I*	1
MUS 1540	Class Piano II*	1
MUED 2000	Philosophy and Introduction to Music Education	2
MUED 2320	Instrumental Music Lab (1+1)	2
MUED 3230	Instrumental Materials	3
MUED 3250	Marching Band Techniques	2
MUED 3310	Woodwinds II	1
MUED 3320	Percussion II	1
MUED 3330	Brass II	1
MUED 3350	Strings II	1
MUEN 3---	Ensembles**	9
MUAP 2---	Private Instruction	4
MUAP 4---	Private Instruction	3
MUPD 3050	Jazz Pedagogy	2
MUS 3150	Advanced Instrumental Conducting	2
MUAP 4800	Partial Senior Recital	1
<b>SUBTOTAL</b>		<b>40</b>

*\*Not required if piano major instrument*

### \*\*Ensembles

#### Primary Instrument: Brass, Woodwind, Percussion 3 hours from:

MUEN 3100

#### 4 hours from:

MUEN 3110, 3120, 3300

#### 1 hour from:

MUEN 3200, 3210, 3220, 3230, 3260

**1 hour from:**

MUEN 3--- (elective ensemble)

**Primary Instrument: Orchestral Strings**

**5 hours from:**

MUEN 3300

**2 hours from:**

MUEN 3700, 3740

**1 hour from:**

MUEN 3200, 3210, 3220, 3230, 3260

**1 hour from:**

MUEN 3--- (elective ensemble)

**Primary Instrument: Piano**

**4 hours from:**

MUEN 3000

**2 hours from:**

MUEN 3730

**3 hours from:**

MUEN 3--- (elective ensemble)

**Primary Instrument: Guitar**

**4 hours from:**

MUEN 3720

**2 hours from:**

MUEN 3200, 3210, 3220, 3230, 3260

**3 hours from:**

MUEN 3--- (elective ensemble)

**Secondary Education Minor**

The Secondary Education minor has been revised. Please see page 193 and contact the Educational Leadership Department for information.

**Concentration 2: Vocal/General Music Education**

MUS 1530 Class Piano I*	1
MUS 1540 Class Piano II*	1
MUED 2310 Choral Music Lab (1+1)	2
MUED 2000 Philosophy and Introduction to Music Education	2
MUED 2010 Introduction to Wind and String Instruments	2
MUPD 2180 Diction for Singers I (English and Latin)	2
MUED 2210 Instrumental Techniques for Music Classroom	2
MUS 2530 Class Piano III	1
MUS 2540 Class Piano IV	1
MUS 3160 Advanced Choral Conducting	2
MUED 3190 General Music in the Middle and Senior High School	2
MUED 3200 Music in the Elementary Grades for Music Majors	3
MUED 3220 Choral Music in the Middle and Senior High School	2
MUEN 3--- Ensembles**	9
MUAP 2371 Private Instruction-Voice	4
MUAP 4371 Private Instruction-Voice	3
MUAP 4800 Partial Senior Recital	1
<b>SUBTOTAL</b>	<b>40</b>

\*Not required if piano major instrument

**\*\*Ensembles**

**Primary Instrument: Piano**

**3 hours from:**

MUEN 3000

**2 hours from:**

MUEN 3730

**4 hours from:**

MUEN 3200, 3210, 3220, 3230, 3260

**Primary Instrument: Voice**

**5 hours from:**

MUEN 3200, 3230

**2 hours from:**

MUEN 3210, 3220

**2 hours from:**

MUEN 3--- (elective ensemble)

**Primary Instrument: Organ**

**3 hours from:**

MUEN 3000

**2 hours from:**

MUEN 3730

**4 hours from:**

MUEN 3200, 3210, 3220, 3230, 3260

**Primary Instrument: Guitar**

**3 hours from:**

MUEN 3200, 3210, 3220, 3230, 3260

**5 hours from:**

MUEN 3720

**1 hour from:**

MUEN 3--- (elective ensemble)

**Secondary Education Minor**

The Secondary Education minor has been revised. Please see page 193 and contact the Educational Leadership Department for information.

**Concentration 3: Voice Performance**

MUS 1530 Class Piano I	1
MUS 1540 Class Piano II	1
MUPD 2180 Diction for Singers I (English and Latin)	2
MUPD 2190 Diction for Singers II (Italian)	2
MUS 2530 Class Piano III	1
MUS 2540 Class Piano IV	1
MUAP 3800 Junior Recital	1
MUTH 4110 Form and Analysis	3
MUPD 2200 Diction for Singers III (German)	2
MUPD 2210 Diction for Singers IV (French)	2
MUPD 4310 Vocal Pedagogy	2
MUHL 4710 Vocal Literature	3
MUEN 3--- Ensembles**	7
MUAP 2372 Private Instruction-Voice	8
MUAP 4373 Private Instruction-Voice	12
Foreign Language***	3
MUAP 4900 Senior Recital	2
<b>SUBTOTAL</b>	<b>53</b>

**\*\*Ensembles**

**NOTE: Nine (9) hours of ensemble participation are required, but only seven (7) of those hours may be counted toward degree requirements; the remaining two hours may be taken for zero (0) credit.**

**6 hours from:**

MUEN 3200, 3210, 3220, 3230, 3260

**3 hours from:**

MUEN 3250

\*\*\*Foreign language proficiency: One year of foreign language proficiency in Italian, French, or German must be established through examination by the Department of Foreign Languages and Literatures or by a passing grade for the second semester (1020) of Elementary Italian, French, or German. In addition, three credit hours of study are required in a second foreign language, either Italian, French, or German.

### Concentration 4a: Instrumental Performance - Brass, Orchestral Strings, Woodwinds, and Percussion

MUS 1530	Class Piano I	1
MUS 1540	Class Piano II	1
MUS 2530	Class Piano III	1
MUS 2540	Class Piano IV	1
MUS 3150	Advanced Instrumental Conducting	2
MUAP 3800	Junior Recital	1
Music Elective		3
MUTH 4110	Form and Analysis	3
MUPD 41--	Advanced Pedagogy	2
MUHL 47--	Instrumental Literature	2
MUEN 3---	Ensembles**	14
MUAP 2---	Private Instruction	8
MUAP 4---	Private Instruction	12
MUAP 4900	Senior Recital	2
<b>SUBTOTAL</b>		<b>53</b>

#### \*\*Ensembles

**NOTE: Sixteen (16) hours of ensemble participation are required, but only fourteen (14) of those hours may be counted toward degree requirements; the remaining two hours may be taken for zero (0) credit.**

#### Primary Instrument: Brass

##### 6 hours from:

MUEN 3110, 3120

##### 3 hours from:

MUEN 3710

##### 3 hours from:

MUEN 3260

##### 2 hours from:

MUEN 3300, 3400, 3700, 3710

##### 1 hour from:

MUEN 3200, 3210, 3220, 3230, 3260

##### 1 hour from:

MUEN 3--- (elective ensemble)

#### Primary Instrument: Orchestral Strings

##### 8 hours from:

MUEN 3300

##### 5 hours from:

MUEN 3740

##### 1 hour from:

MUEN 3200, 3210, 3220, 3230, 3240, 3250, 3260

##### 2 hours from:

MUEN 3--- (elective ensembles)

#### Primary Instrument: Woodwinds\*

##### 5 hours from:

MUEN 3110, 3120

##### 5 hours from:

MUEN 3300

##### 4 hours from:

MUEN 3750

##### 1 hour from:

MUEN 3200, 3210, 3220, 3230, 3240, 3250, 3260

##### 1 hour from:

MUEN 3--- (elective ensemble)

\*Saxophone majors may substitute their 5 orchestra hours with any ensemble elective.

#### Primary Instrument: Percussion

##### 6 hours from:

MUEN 3110, 3120

##### 3 hours from:

MUEN 3300

##### 4 hours from:

MUEN 3500

##### 3 hours from:

MUEN 3400, 3410, 3430, 3200, 3210, 3220, 3230, 3240, 3260

### Concentration 4b: Instrumental Performance - Guitar

MUS 1530	Class Piano I	1
MUS 1540	Class Piano II	1
MUS 2530	Class Piano III	1
MUS 2540	Class Piano IV	1
MUTH 3110	Counterpoint	3
MUAP 3800	Junior Recital	1
MUHL 4060	Survey of Guitar Literature	2
MUTH 4110	Form and Analysis	3
MUPD 4350	Guitar Pedagogy	2
MUEN 3---	Ensembles**	8
MUAP 2412	Private Instruction-Guitar	8
MUAP 4413	Private Instruction-Guitar	12
MUAP 4900	Senior Recital	2
Upper-division Music Elective		2
<b>SUBTOTAL</b>		<b>47</b>

Free Electives

6

#### \*\*Ensembles

**NOTE: Ten (10) hours of ensemble participation are required, but only eight (8) of those hours may be counted toward degree requirements; the remaining two hours may be taken for zero (0) credit.**

##### 5 hours from:

MUEN 3720

##### 1 hour from:

MUEN 3700

##### 1 hour from:

MUEN 3200, 3210, 3220, 3230, 3240, 3250, 3260

##### 3 hours from:

MUEN 3--- (elective ensemble)

### Concentration 4c: Instrumental Performance - Piano

MUTH 3110	Counterpoint	3
MUAP 3800	Junior Recital	1
MUTH 4110	Form and Analysis	3
MUPD 4320	Piano Pedagogy	2
MUHL 4690	Piano Literature	3
MUEN 3---	Ensembles**	8
MUAP 2352	Private Instruction-Piano	8
MUAP 4353	Private Instruction-Piano	12
Foreign Language		6
Music Electives		5
MUAP 4900	Senior Recital	2
<b>SUBTOTAL</b>		<b>53</b>

#### \*\*Ensembles

**NOTE: Ten (10) hours of ensemble participation are required, but only eight (8) of those hours may be counted toward degree requirements; the remaining two hours may be taken for zero (0) credit.**

##### 4 hours from:

MUEN 3000

##### 2 hours from:

MUEN 3730

##### 1 hour from:

MUEN 3200, 3210, 3220, 3230, 3240, 3250, 3260



**3 hours from:**

MUEN 3--- (elective ensembles)

**Concentration 4d: Instrumental Performance - Organ**

MUTH 3110 Counterpoint	3
MUAP 3800 Junior Recital	1
MUTH 4110 Form and Analysis	3
MUPD 4330 Organ Pedagogy	2
MUHL 4720 Organ Literature	2
MUEN 3--- Ensembles**	8
MUAP 2362 Private Instruction-Organ	8
MUAP 4363 Private Instruction-Organ	12
Foreign Language	6
Music Electives	6
MUAP 4900 Senior Recital	2
<b>SUBTOTAL</b>	<b>53</b>

**\*\*Ensembles**

**NOTE: Ten (10) hours of ensemble participation are required, but only eight (8) of those hours may be counted toward degree requirements; the remaining two hours may be taken for zero (0) credit.**

**4 hours from:**

MUEN 3200, 3210, 3220, 3230, 3240, 3250, 3260

**3 hours from:**

MUEN 3000

**3 hours from:**

MUEN 3--- (elective ensembles)

**Concentration 5: Music Industry**

MUS 1530 Class Piano I*	1
MUS 1540 Class Piano II*	1
MUTH 3020 Commercial Songwriting	3
MUHL 3670 History of Popular Music in America	3
MUTH 4190 Principles and Practices of Electronic Music	3
MUS 4270 Music Internship	3
MUAP 4800 Partial Senior Recital	1
MUEN 3--- Ensembles**	8
MUAP 2--1 Private Instruction	4
MUAP 4--1 Private Instruction	4
Upper-division music electives	4
<b>SUBTOTAL</b>	<b>35</b>

\*Not required if piano major instrument

All students must complete Recording Industry minor 18

**\*\*Ensembles****Primary Instrument: Guitar****1 hour from:**

MUEN 3200, 3210, 3220, 3230, 3240, 3250, 3260

**4 hours from:**

MUEN 3720

**3 hours from:**

MUEN 3--- (elective ensembles)

**Primary Instrument: Piano****4 hours from:**

MUEN 3000

**1 hour from:**

MUEN 3730

**3 hours from:**

MUEN 3--- (elective ensembles)

**Primary Instrument: Organ****4 hours from:**

MUEN 3000

**1 hour from:**

MUEN 3200, 3210, 3220, 3230, 3240, 3250, 3260

**3 hours from:**

MUEN 3--- (elective ensembles)

**Primary Instrument: Brass****5 hours from:**

MUEN 3100, 3110, 3120, 3300

**3 hours from:**

MUEN 3--- (elective ensembles)

**Primary Instrument: Woodwind****5 hours from:**

MUEN 3100, 3110, 3120, 3300

**3 hours from:**

MUEN 3--- (elective ensembles)

**Primary Instrument: Orchestral Strings****6 hours from:**

MUEN 3300

**2 hours from:**

MUEN 3740

**Primary Instrument: Percussion****5 hours from:**

MUEN 3100, 3110, 3120, 3300

**3 hours from:**

MUEN 3500

**Primary Instrument: Voice****5 hours from:**

MUEN 3200, 3210, 3220, 3230, 3340, 3260

**2 hours from:**

MUEN 3250

**1 hour from:**

MUEN 3--- (elective ensembles)

**Concentration 6: Theory-Composition**

MUS 1530 Class Piano I*	1
MUS 1540 Class Piano II*	1
MUS 2530 Class Piano III	1
MUS 2540 Class Piano IV	1
MUTH 3110 Counterpoint	3
MUTH 4110 Form and Analysis	3
MUTH 4190 Principles and Practices of Electronic Music	3
MUAP 2342 Composition	4
MUAP 4342 Composition	8
MUHL 4630 Seventeenth- and Eighteenth-Century Music	3
MUHL 4640 Nineteenth-Century Music	3
MUHL 4650 Twentieth-Century Music	3
MUAP 2--1 Private Instruction	4
MUAP 4--1 Private Instruction	4
MUAP 4900 Senior Recital	2
MUEN 3--- Ensembles**	9
<b>SUBTOTAL</b>	<b>53</b>

\*Not required if piano major instrument

**\*\*Ensembles****Primary Instrument: Guitar****1 hour from:**

MUEN 3200, 3210, 3220, 3230, 3240, 3250, 3260

**5 hours from:**

MUEN 3720

**1 hour from:**

MUEN 3700

**2 hours from:**

MUEN 3--- (elective ensembles)

**Primary Instrument: Piano****1 hour from:**

MUEN 3200, 3210, 3220, 3230, 3240, 3250, 3260

**3 hours from:**

MUEN 3000

**1 hour from:**

MUEN 3730

**4 hours from:**

MUEN 3--- (elective ensembles)

**Primary Instrument: Organ****3 hours from:**

MUEN 3200, 3210, 3220, 3230, 3240, 3250, 3260

**3 hours from:**

MUEN 3000

**3 hours from:**

MUEN 3--- (elective ensembles)

**Primary Instrument: Brass and Woodwinds****3 hours from:**

MUEN 3300

**3 hours from:**

MUEN 3100, 3110, 3120

**1 hour from:**

MUEN 3200, 3210, 3220, 3230, 3240, 3250, 3260

**2 hours from:**

MUEN 3--- (elective ensembles)

**Primary Instrument: Orchestral Strings****6 hours from:**

MUEN 3300

**2 hours from:**

MUEN 3740

**1 hour from:**

MUEN 3--- (elective ensembles)

**Primary Instrument: Percussion****5 hours from:**

MUEN 3110, 3120

**1 hour from:**

MUEN 3300

**3 hours from:**

MUEN 3500

**Primary Instrument: Voice****5 hours from:**

MUEN 3200, 3210, 3220, 3230, 3240, 3260

**2 hours from:**

MUEN 3250

**2 hours from:**

MUEN 3--- (ensemble electives)

**Concentration 7: Jazz Studies**

SOC 4170, HIST 2040, OR HIST 2050

and

MUTH 3170, MUHL 4130, OR MUTH 4190

and

MUS 1530 Class Piano I\* 1

MUS 1540 Class Piano II\* 1

MUS 2670 Jazz Piano Lab 2

MUHL 2910 Styles and Analysis of Jazz 2

MUPD 3050 Jazz Pedagogy 2

MUHL 3090 History of Jazz 3

MUTH 3160 Jazz Theory I 3

MUTH 4170 Jazz Arranging 2

MUTH 4180 Improvisation I 2

MUTH 4280 Jazz Arranging II 3

MUTH 4380 Improvisation II 2

MUAP 2--- Private Instruction 4

MUAP 2--- Private Instruction (Jazz) 4

MUAP 4--- Private Instruction (Jazz) 4

MUEN 3--- Ensembles\*\* 11

MUAP 4800 Partial Senior Recital 1

**SUBTOTAL 53***\*Not required if piano major instrument***\*\*Ensembles****NOTE: Twelve (12) hours of ensemble participation are required, but only eleven (11) of those hours may be counted toward degree requirements; the remaining hour may be taken for zero (0) credit.****Primary Instrument: Saxophone, Trumpet, and Trombone****6 hours from:**

MUEN 3400

**6 hours from:**

MUEN 3430

**Primary Instrument: Piano, Bass, Drums, Guitar****4 hours from:**

MUEN 3400

**4 hours from:**

MUEN 3430

**4 hours from:**

MUEN 3--- (ensemble electives)

**Primary Instrument: Voice****6 hours from:**

MUEN 3200, 3210, 3220, 3230, 3250, 3260

**6 hours from:**

MUEN 3240

**Minor in American Music Studies****(21-23 hours)****Required courses (12-14 hours):**

MUTH 1110 Theory and Aural Skills I AND 4

MUTH 1120 Theory and Aural Skills II OR 4

MUTH 3160 Jazz Theory I AND 3

MUTH 3170 Jazz Theory II 3

AND

ANTH 2010 Cultural Anthropology OR 3

GEOG 4360 Cultural Geography 3

AND

MUHL 4660 American Music 3

**Guided Electives (9 hours) to be selected from the following:**

MUHL 4530 History of Jazz 3

MUHL 4130 Survey of World Music 3

MUHL 3150 Musics of the South 3

MUHL 3670 History of Popular Music in America 3

MUHL 4650 Twentieth-Century Music 3

RIM 3000 History of the Recording Industry 3

RIM 3100 Music as Popular Culture 3

SOC 4170 The Social Context of Southern Music 3

**Minor in Music****(20 hours)****Music Theory**

MUTH 1110 Theory and Aural Skills I 4

MUTH 1120 Theory and Aural Skills II 4

**Private Instruction**

4 semesters of private instruction in one field 4

**Ensembles**

2 semesters of ensemble participation 2

AND

Students will choose from the following two options:

**Option #1**

MUS 1030	Introduction to Music	3
And choose one of the following four courses:		
MUHL 4530	History of Jazz	3
MUHL 3120	Masterworks of Classical Music	3
MUHL 4130	Survey of World Music	3
MUHL 3670	History of Popular Music in America	3

**Option #2**

MUHL 1610	Music History I	2
MUHL 1620	Music History II	2
MUHL 2610	Music History III	2

**In Addition**

The student must fulfill all prerequisites for any course within the minor.

## Minor in Music Industry

(24 hours)

**Music Theory**

MUTH 1110	Theory Aural Skills I	4
MUTH 1120	Theory and Aural Skills II	4

**Plus 12 credits selected from:**

MUHL 1610	Music History I	2
MUS 1030	Introduction to Music	3
MUTH 2110	Theory and Aural Skills III	3
MUTH 2120	Theory and Aural Skills IV	3
MUTH 3020*	Commercial Songwriting	2
MUHL 3670	History of Popular Music in America	3
MUTH 4130	Instrumentation	2
MUTH 4170	Commercial Arranging	2
MUTH 4180	Improvisation I	2
MUTH 4190*	Principles and Practices of Electronic Music	3
MUTH 4290*	Electronic Music II	3
RIM/MUTH 4590*	MIDI Studio Techniques	3

\*Permission to enroll is given by the Recording Industry Department

**Private Instruction and/or Ensembles** 4

Four semesters of private instruction and/or ensembles

**In Addition**

The student must fulfill all prerequisites for any course within the minor.

## Courses in Music [MUS]

**1010 Recital Attendance.** No credit. Attendance at a minimum number of recitals and concerts given by students, faculty, and guest artists. Six semesters required for undergraduate music majors (see School of Music handbook for details). May be repeated multiple times. Pass/Fail.

**1030 Introduction to Music.** Three credits. **Meets part of the General Education Humanities and/or Fine Arts requirement.** Perceptive listening to music of various styles and cultures including popular and world musics and Western classical concert music.

**1510 Class Voice I.** One credit. Basic vocal techniques including posture, breath control, tone quality, and diction. Italian and English diction, Vaccai studies, and moderately easy song repertory.

**1520 Class Voice II.** One credit. Prerequisite: MUS 1510. A continuation of the vocal techniques in Class Voice I with addition of vocal flexibility, uniform tone quality in extending the voice range, interpretation of songs, and stage deportment in public performance. Further study of Vaccai, Italian art songs, and English songs.

**1530 Class Piano I.** One credit. Acquaints beginning piano students with the keyboard. Includes such skills as note reading, basic chords for harmonization of melodies, improvisation, basic exercises for development of coordination and technique, transposition, repertory, and sight reading.

**1540 Class Piano II.** One credit. Prerequisite: MUS 1530. Continuation of skills and concepts taught in MUS 1530. Emphasis on standard piano repertory in addition to sight reading and functional piano skills.

**1550 Class Guitar I.** One credit. Beginning guitar playing, teaching basic techniques through chording and melodic elements.

**1560 Class Guitar II.** One credit. Prerequisite: MUS 1550. Continuation of skills and concepts sought in Class Guitar I with emphasis on more advanced playing and repertory study.

**2530 Class Piano III.** One credit. Prerequisite: MUS 1540. Continuation of skills and concepts taught in MUS 1540. Emphasis on standard piano repertory in addition to sight reading and functional piano skills.

**2540 Class Piano IV.** One credit. Prerequisite: MUS 2530. Continuation of skills and concepts taught in MUS 2530. Emphasis on standard piano repertory in addition to sight reading and functional piano skills.

**2660 Jazz Guitar Lab.** One credit. Prerequisites: MUTH 1110 and 1120, basic proficiency in reading music, and consent of instructor. Recommended: Class Guitar I or one semester of private instruction. Provides minimum background in performing popular guitar styles in an ensemble or studio situation. Course may be taken more than one semester for credit.

**2670 Jazz Piano Lab.** Two credits. Prerequisite: MUS 1540. For beginning jazz keyboard students. Study of the harmonic language of jazz, chord voicing, keyboard techniques, interpretation of melodies, and improvisation.

**3140 Basic Conducting.** Two credits. Prerequisites: MUTH 2120. Interpretation of scores, fundamental diagrams with and without baton, terminology, and stage deportment.

**3150 Advanced Instrumental Conducting.** Two credits. Prerequisites: Two semesters of MUED 2120; MUS 3140. Further development of techniques, especially those relevant to choral and instrumental conducting. Laboratory experiences with large musical groups; conducting with records to develop awareness of musical texture, form, and general musicianship in all areas as related to conducting.

**3160 Advanced Choral Conducting.** Two credits. Prerequisite: Two semesters of MUED 2120; MUS 3140. Further development of conducting techniques relative to the choral area. Emphasis on choral style and literature, scope and sequence of the historical perspective, and major developments in the choral art.

**4000 Special Topics in Music.** One, two, or three credits. Study of a topic in music. Topic and prerequisites to be announced.

**4100 Independent Study in Music.** One, two, or three credits. Intensive study of a chosen subject. An indication of reasonable skill and knowledge of research techniques, writing, and creativity expected. Requires permission of the instructor and director of the music school.

**4270 Music Internship.** Three to six credits. Prerequisite: Permission of instructor. Examination and experiences in music industry,

music education, or instrumental or choral conducting. Music industry may include songwriting and the creative aspects of music, studio production, music publishing, and music merchandising. Music education may include public and private school settings, state board of education arts consulting, and music textbook consulting. Conducting may include school and church conducting, music publishing, and private or public orchestras and/or choirs. Pass/Fail.

- 4570 The Body Intelligent: A Study of the Alexander Technique.** Two credits. (Same as THEA 4570.) For those interested in improving ease and freedom of movement, balance, support, flexibility, and coordination in daily activities.

## Courses in Applied Music [MUAP]

### Lower-Division Private Instruction

Private instruction is available to qualified students on all orchestral and band instruments, voice, guitar, keyboards and composition. Those students enrolling in private instruction for the first time audition to determine if they are adequately prepared for college-level study. To arrange for an audition, students should contact the McLean School of Music Office. One-credit private instruction courses require one-half hour lesson per week. Two-credit courses are for music majors only and require one hour-long lesson per week. A corequisite enrollment in an appropriate music ensemble is required for students registered for private instruction in voice, brass, woodwinds, orchestral strings, and percussion. Private instruction course numbers will be repeated for each semester of study.

Students who are not prepared for such private instruction as stated above should register for class instruction, e.g., class piano, class voice. If class instruction is not available, students will be allowed to enroll in private instruction for one semester after which a faculty jury examination must be passed to continue private instruction. Private instruction course numbers will be repeated each semester of study. A maximum of four semesters of lower-division private instruction may be applied to a music degree.

Fees are \$300 for a one-hour lesson and \$150 for a half-hour lesson.

- 2351 Piano.** One credit.  
**2361 Organ.** One credit.  
**2371 Voice.** One credit.  
**2381 Violin.** One credit.  
**2391 Violoncello.** One credit.  
**2401 String Bass.** One credit.  
**2411 Guitar.** One credit.  
**2421 Flute/Piccolo.** One credit.  
**2431 Oboe/English Horn.** One credit.  
**2441 Clarinet.** One credit.  
**2451 Bassoon.** One credit.  
**2461 Saxophone.** One credit.  
**2471 Trumpet.** One credit.  
**2481 French Horn.** One credit.  
**2491 Trombone.** One credit.  
**2501 Baritone/Euphonium.** One credit.  
**2511 Tuba.** One credit.  
**2521 Snare Drum/Keyboard Percussion.** One credit.  
**2531 Drum Set/Latin Percussion.** One credit.  
**2541 Timpani/Keyboard Percussion.** One credit.

- 2551 Harpsichord/Continuo.** One credit.  
**2561 Viola.** One credit.  
**2342 Composition.** Two credits.  
**2352 Piano.** Two credits.  
**2362 Organ.** Two credits.  
**2372 Voice.** Two credits.  
**2382 Violin.** Two credits.  
**2392 Violoncello.** Two credits.  
**2402 String Bass.** Two credits.  
**2412 Guitar.** Two credits.  
**2422 Flute/Piccolo.** Two credits.  
**2432 Oboe/English Horn.** Two credits.  
**2442 Clarinet.** Two credits.  
**2452 Bassoon.** Two credits.  
**2462 Saxophone.** Two credits.  
**2472 Trumpet.** Two credits.  
**2482 French Horn.** Two credits.  
**2492 Trombone.** Two credits.  
**2502 Baritone/Euphonium.** Two credits.  
**2512 Tuba.** Two credits.  
**2552 Harpsichord/Continuo.** Two credits.  
**2562 Viola.** Two credits.

### Upper-Division Private Instruction

Promotion to the upper division does not follow automatically after the completion of four semesters of courses in the lower division but is made only upon the successful completion of the upper-division jury. This jury, normally given at the end of the sophomore year to music majors, is conducted by the McLean School of Music. Recommendation to upper division is made only if the student's proficiency as a performer bears promise of future artistic qualities as a soloist. It is at this level that the music major normally begins preparation for his/her junior and/or senior recital. A student who fails to pass the upper-division jury must continue lower-division private instruction until the jury is passed. Private instruction course numbers will be repeated for each semester of study.

A one-credit course requires one half-hour lesson per week. Two- and three-credit courses are for music majors only and require one hour-long lesson per week. A corequisite enrollment in an appropriate music ensemble is required for students registered for private instruction in voice, brass, woodwinds, orchestral strings, and percussion.

After successful completion of the upper-division jury, a student must be enrolled for a minimum of three semesters before being allowed to give the senior recital. Students must pass the upper-division performance jury before being allowed to student teach.

Fees are \$300 for a one-hour lesson and \$150 for a half-hour lesson.

- 4351 Piano.** One credit.  
**4361 Organ.** One credit.  
**4371 Voice.** One credit.  
**4381 Violin.** One credit.  
**4391 Violoncello.** One credit.  
**4401 String Bass.** One credit.  
**4411 Guitar.** One credit.  
**4421 Flute/Piccolo.** One credit.  
**4431 Oboe/English Horn.** One credit.  
**4441 Clarinet.** One credit.  
**4451 Bassoon.** One credit.



- 4461 **Saxophone.** One credit.  
 4471 **Trumpet.** One credit.  
 4481 **French Horn.** One credit.  
 4491 **Trombone.** One credit.  
 4501 **Baritone/Euphonium.** One credit.  
 4511 **Tuba.** One credit.  
 4521 **Snare Drum/Keyboard Percussion.** One credit.  
 4531 **Drum Set/Latin Percussion.** One credit.  
 4541 **Timpani/Keyboard Percussion.** One credit.  
 4551 **Harpsichord/Continuo.** One credit.  
 4561 **Viola.** One credit.  
 4342 **Composition.** Two credits.  
 4352 **Piano.** Two credits.  
 4362 **Organ.** Two credits.  
 4372 **Voice.** Two credits.  
 4382 **Violin.** Two credits.  
 4392 **Violoncello.** Two credits.  
 4402 **String Bass.** Two credits.  
 4412 **Guitar.** Two credits.  
 4422 **Flute/Piccolo.** Two credits.  
 4432 **Oboe/English Horn.** Two credits.  
 4442 **Clarinet.** Two credits.  
 4452 **Bassoon.** Two credits.  
 4462 **Saxophone.** Two credits.  
 4472 **Trumpet.** Two credits.  
 4482 **French Horn.** Two credits.  
 4492 **Trombone.** Two credits.  
 4502 **Baritone/Euphonium.** Two credits.  
 4512 **Tuba.** Two credits.  
 4552 **Harpsichord/Continuo.** Two credits.  
 4562 **Viola.** Two credits.

Three-credit private instruction courses are designed for only those students majoring in music with performance as their concentration. Students enrolled in these courses will receive one hour of instruction per week. Although three-credit courses meet for the same length of time as two-credit courses, students enrolled are expected to spend more time in preparation for their lessons and perform more repertoire during the course of the semester as assigned by the instructor.

- 4353 **Piano.** Three credits.  
 4363 **Organ.** Three credits.  
 4373 **Voice.** Three credits.  
 4383 **Violin.** Three credits.  
 4393 **Violoncello.** Three credits.  
 4403 **String Bass.** Three credits.  
 4413 **Guitar.** Three credits.  
 4423 **Flute.** Three credits.  
 4433 **Oboe/English Horn.** Three credits.  
 4443 **Clarinet.** Three credits.  
 4453 **Bassoon.** Three credits.  
 4463 **Saxophone.** Three credits.  
 4473 **Trumpet.** Three credits.  
 4483 **French Horn.** Three credits.  
 4493 **Trombone.** Three credits.  
 4503 **Baritone/Euphonium.** Three credits.  
 4513 **Tuba.** Three credits.  
 4523 **Percussion.** Three credits.  
 4553 **Harpsichord/Continuo.** Three credits.  
 4563 **Viola.** Three credits.

A student who earns a grade lower than C in private instruction may use the next attempt in the course to remove the previous grade from his or her grade point calculation. To use this policy, the student must have the written permission

of the school director at the beginning of the semester in which the next attempt is made.

**2432 Composition.** Two credits each semester. Experience composing original works in numerous media and styles to develop technique and self-expression. Topics include melodic and harmonic practice, orchestration, analysis, music form, score preparation, and audience psychology. Musical styles may embrace jazz, rock, pop, and electronics in addition to traditional and contemporary art music.

**3800 Junior Recital.** One credit. Prerequisite: One semester of upper-division private study. Corequisite: Private lesson in major area of performance. Required of all Bachelor of Music majors with a concentration in Vocal or Instrumental Performance. Constitutes approximately 30 minutes of music with appropriate repertoire as assigned by the private instructor; recital performance graded by a faculty committee; must be passed with a grade of C or better.

**4040 Service Playing.** Two credits. Skills and knowledge necessary in order to play for church services including hymn and anthem accompaniments, conducting from the console, liturgical service music, solo accompaniments, and church music materials. (A maximum of 8 semester hours may be applied toward degree.)

**4342 Composition.** Two credits. Experience composing original works in numerous media and styles to develop technique and self-expression. Topics include melodic and harmonic practice, orchestration, analysis, music form, score preparation, and audience psychology. Musical styles may embrace jazz, rock, pop, and electronics in addition to traditional and contemporary art music.

**4800 Partial Senior Recital.** One credit. Prerequisite: Two semesters of upper-division private study. Corequisite: Private lesson in major area of performance. Required of all Bachelor of Music majors with a concentration in Vocal/General Music Education, Instrumental Music Education, and Music Industry. Constitutes approximately 30 minutes of music with appropriate repertoire as assigned by the private instructor. Students must receive permission to present a partial senior recital by giving a pre-recital hearing before the faculty at least two weeks before the scheduled recital. Recital performance graded by a faculty committee; must be passed with a grade of C or better.

**4900 Senior Recital.** Two credits. Prerequisites: MUAP 3800 with a grade of C or better (Vocal or Instrumental Performance); three semesters of upper-division private study. Required of all Bachelor of Music majors with a concentration in Vocal or Instrumental Performance, Jazz Studies, and Theory-Composition. Constitutes approximately 50 minutes of music with appropriate repertoire as assigned by the private instructor. Recital performance graded by a faculty committee; must be passed with a grade of C or better.

## Courses in Music Education [MUED]

**1210 Fundamentals of Music.** Three credits. Music fundamentals including scales, intervals, meters, rhythm patterns, sight-singing and dictation, principles of music writing, singing and playing elementary-level compositions, keyboard experience, and analysis for understanding and appreciation.

**1310 Woodwinds I.** One credit. For music majors beginning the study of a minor instrument in woodwinds and open to general college students desiring to learn a musical instrument.

- 1320 Percussion I.** One credit. Building performance ability on snare drum in all styles of playing.
- 1330 Brass I.** One credit. Designed for music majors beginning the study of a minor instrument in brass and open to the general college student desiring to learn a musical instrument.
- 1410 Strings I.** One credit. Instruction in the elements of stringed instrument playing. The student will select one instrument of the string group and continue its study through one semester.
- 2000 Philosophy and Introduction to Music Education.** Two credits. First course in the music education curriculum for students working toward vocal-general or instrumental K-12 teacher licensure. Organization and curriculum of American music education as well as the place of music education in the total program of the school explored.
- 2010 Introduction to Wind and String Instruments.** Two credits. Prerequisite: MUED 2000. Provides basic performance skills as well as historical and introductory pedagogical knowledge of selected wind and string instruments.
- 2210 Instrumental Techniques for Music Classroom.** Two credits. Prerequisite: MUED 2000. Learning to play the recorder, guitar, autoharp, and basic mallet and other percussion instruments with teaching application to school music.
- 2310 Choral Music Lab.** One credit. Two semesters of Choral Music Lab required of all Vocal/General Education majors. Study and rehearsal of public school materials and repertoire not covered in other music classes. Provides opportunities to explore various methodologies and apply pedagogical skills in a clinical environment. Also provides upper-division music education students opportunities to conduct and teach in an experimental/laboratory setting.
- 2320 Instrumental Music Lab.** One credit. Two semesters of Instrumental Lab required of all Instrumental Music Education majors. Study and rehearsal of public school materials and repertoire not covered in other music classes. Provides opportunities to explore various methodologies and apply pedagogical skills in a clinical environment. Also provides upper-division music education students opportunities to conduct and teach in an experimental/laboratory setting.
- 3190 General Music in the Middle and Senior High School.** Two credits. Prerequisite: MUED 2000. Required for students working toward vocal-general or instrumental K-12 teacher licensure. Introduces vocal/general music education majors to methods and materials available for teaching general music to students in grades 6-12.
- 3200 Music in the Elementary Grades for Music Majors.** Three credits. Prerequisite: MUED 2000. Focuses on the need for music in the classroom, provides experiences in current methods of music education, and seeks to establish a logical framework of the structure and nature of music as a discipline and an art.
- 3210 Music in the Elementary Grades for Non-Music Majors.** Three credits. Materials and methods appropriate for elementary grade general music, including a comparison of available music series and recordings; care of the child voice; beginning experience in pitched and non-pitched percussion; and simple wind instruments. Pedagogical trends and methods; analysis for understanding and appreciation.
- 3220 Choral Music in the Middle and Senior High School.** Two credits. Prerequisites: MUED 3200 and MUS 3140. Rehearsal techniques, choral materials, organization of ensembles, classification of voices including changing voice, general music methods, and materials.
- 3230 Instrumental Materials.** Three credits. Prerequisites: MUED 2000 and MUS 3140. Examination of materials suitable for public school instrumental music programs. Practice in classifying, grading, and programming. Development of music education philosophy for the control of those procedures.
- 3240 Band Organization.** Two credits. Basic organization and administration of a practical band program. Instrumentation planning in the feeder program; financing.
- 3250 Marching Band Techniques.** Two credits. Basic drill, principles of showmanship, and show planning for the band.
- 3310 Woodwinds II.** One credit. Prerequisite: MUED 1310. Instruction in the principles and problems of teaching woodwind instruments. Emphasis on problems found in performance by school students.
- 3320 Percussion II.** One credit. Prerequisite: MUED 1320. Acquaints the music major with the principal percussion instruments including the Afro-Indo-Latin groups.
- 3330 Brass II.** One credit. Prerequisite: MUED 1330. Acquaints the music major with the accepted fingerings, embouchures, and basic principles of the band and orchestra.
- 3350 Strings II.** One credit. Prerequisite: MUED 1410. Acquaints the music major with the string family of instruments. Study of three instruments other than the student's string minor instrument.
- 4210 General Music Program K-6.** Two credits. Prerequisite: MUEN 3200. The role of music and music teaching in elementary education; its objectives, methods, materials, and procedures; innovative trends and exemplary practices; evaluative techniques.
- 4220 Middle School Music.** Two credits. Prerequisite: MUEN 3220. The role of music and music teaching in middle school education; its objectives, methods, materials, and procedures; innovative trends and exemplary practices; evaluative techniques.
- 4230 Secondary School Methods and Materials.** Two credits. Prerequisite: MUEN 3230. The role of music and music teaching in secondary education; its objectives, methods, materials, and procedures; innovative trends and exemplary practices; evaluative techniques.
- 4240 Instrumental Rehearsal Problems.** Two credits. Designed to improve teaching in instrumental music classes through study of rehearsal planning and techniques, the interpretation of music to students, and group dynamics.
- 4250 Advanced Marching Techniques.** Two credits. Prerequisite: MUED 3250. Further development and application of marching band techniques as utilized in half-time and contest show production. Selection and analysis of music scores.
- 4260 School Instrumental Materials.** Two credits. Analysis and compilation of a significant bibliography of instrumental material suitable for use in public schools. Emphasis on practical material possessing a maximum of aesthetic value.

**4670 Music for the Young Child.** Four credits. Music fundamentals, materials, and methods appropriate for pre-school through grade three; pantomime, role playing, improvisation, rhythm, movement, listening, and singing.

## Courses in Music Ensembles [MUEN]

Music ensembles are maintained for the benefit of the student body and to provide training for students majoring or minoring in Music. Any MTSU student is eligible to enroll in any McLean School of Music ensemble. All students must have permission of the instructor or audition for placement in an appropriate ensemble. Contact the music office for additional information. All music ensembles may be repeated for credit.

**3000 Accompanying.** One credit each semester. Both solo and ensemble vocal and instrumental repertory with emphasis on the role of the piano in these combinations. Performance required.

**3100 The Band of Blue Marching Band.** Zero-one credit per semester. Participation in all phases of the band, including rehearsals and appearances.

**3110 Symphonic Band.** Zero-one credit each semester. Preparation and public performance of concert and repertoire. Open by audition.

**3120 Wind Ensemble.** Zero-one credit each semester. Preparation and public performance of concert band and wind band repertoire. Open by audition.

**3200 Concert Chorale.** Zero-one credit each semester. Participation in all phases of chorus, including rehearsals and appearances.

**3210 Meister Singers.** One credit each semester. Participation in all phases of the group, including rehearsals and appearances. Reading of early English madrigals and traditional American music.

**3220 Women's Chorus.** Zero-one credit each semester. Preparation and public performance of treble clef choral repertoire.

**3230 Schola Cantorum.** One credit each semester. Preparation and public performance of English madrigals and traditional American choral repertoire. Open by audition.

**3240 MTSU Singers.** One credit each semester. Participation and public performances of a variety of popular and commercial music. Open by audition.

**3250 Opera Workshop.** One credit each semester. Preparation and public performance of opera. Technical and performing aspects of opera production as they pertain to light and grand opera.

**3260 University Chorus.** Zero-one credit each semester. Preparation and public performance of varied choral repertoire. Open by audition.

**3300 Symphony Orchestra.** Zero-one credit each semester. Participation in all phases of the orchestra, including rehearsals and appearances.

**3400 Jazz Ensemble.** Zero-one credit each semester. A performing organization providing instruction and experience in playing jazz.

**3410 Salsa Band.** One credit each semester. Preparation and public performance of appropriate repertoire. Open by audition.

**3420 Commercial Music Ensemble.** One credit each semester. Acquaints the student with the rehearsal and performance of commercial music.

**3430 Jazz Combo.** One credit each semester. Preparation and public performance of appropriate repertoire. Open by audition.

**3500 Percussion Ensemble.** One credit each semester. Performance of percussion ensemble literature. Programs are presented.

**3700 Mixed Chamber Ensemble.** One credit each semester. Preparation and public performance of music literature appropriate to the ensemble.

**3710 Brass Chamber Ensembles.** One credit each semester. Preparation and public performance of appropriate chamber music repertoire. Open by audition.

**3720 Guitar Chamber Ensembles.** One credit each semester. Preparation and public performance of appropriate chamber music. Open by audition.

**3730 Piano Chamber Ensembles.** One credit each semester. Preparation and public performance of appropriate chamber music. Open by audition.

**3740 String Chamber Ensemble.** One credit each semester. Preparation and public performance of appropriate chamber music. Open by audition.

**3750 Woodwind Chamber Ensemble.** One credit each semester. Preparation and public performance of appropriate chamber music. Open by audition.

## Courses in Music History and Literature [MUHL]

**1610 Music History I.** Two credits. Prerequisite: MUTH 1000 with a grade of C- or better or satisfactory score on theory diagnostic exam. The first required music history course for music majors. Surveys the basic elements of music, world music cultures, American vernacular music, and Western art music. Establishes foundation of further music study.

**1620 Music History II.** Two credits. Prerequisite: MUHL 1610 with grade of C- or better. The second required music history course for music majors. Surveys Western art music of the seventeenth and eighteenth centuries, i.e., the Baroque and Classical periods.

**2610 Music History III.** Two credits. Prerequisite: MUHL 1610 with grade of C- or better. The third required music history course for music majors. Surveys Western art music of the nineteenth and twentieth centuries, i.e., the Romantic, Modern, and Postmodern periods.

**2620 Music History IV.** Two credits. Prerequisite: MUHL 1610, with grade of C- or better. The fourth required music history course for music majors. Surveys Western art music from ancient Greece through Middle Ages and Renaissance.

**2910 Styles and Analysis of Jazz.** Two credits. Technical features of various styles from the inception of jazz to present. Introduction of jazz style periods, performance practices, stylistic features, and artists.

- 3120 Masterworks of Classical Music.** Three credits. Selected great works from the Western classical tradition. Listening, watching, reading, and concert attendance.
- 3140 History of Rock 'n' Roll.** Three credits. A historical and cultural examination of rock 'n' roll music from its origins to the present.
- 3150 Musics of the South.** Three credits. A cultural and historical examination of the musical traditions of the southern United States from the colonial era to the present.
- 3670 History of Popular Music in America.** Three credits. Chronological study of American popular music from the colonial period to the present. Formulation of perspectives of the role of popular music in American culture.
- 4060 Survey of Guitar Literature.** Three credits. Basic literature for the guitar from the Renaissance to the present. Analysis, listening, research, and performance.
- 4130 Survey of World Music.** Three credits. Selected music cultures from around the world and here at home. Listening, watching, reading, and concert attendance.
- 4530 History of Jazz.** Three credits. Study of the history and literature of jazz music including African roots, developments and aspects of style periods, and the contemporary state of jazz. Listening and analysis.
- 4630 Seventeenth- and Eighteenth-Century Music.** Three credits. Prerequisite: Permission of instructor. A survey of Western classical music during the Baroque and Classic periods; emphasis on topics selected by instructor.
- 4640 Nineteenth-Century Music.** Three credits. Prerequisite: Permission of instructor. A survey of Western classical music during the Romantic period; emphasis on topics selected by instructor.
- 4650 Twentieth-Century Music.** Three credits. Prerequisite: Permission of instructor. A survey of twentieth century Western art music; emphasis on topics selected by instructor. Examines the major developments of music during the late Romantic, Modern, and Postmodern eras.
- 4660 American Music.** Three credits. Prerequisite: Permission of instructor. A survey of American music from the colonial era to the present; added emphasis on topics selected by the instructor. Examines folk, popular, art, sacred, and secular traditions within their cultural and historical contexts.
- 4680 Choral Literature.** Two credits. Examination of choral literature from the Renaissance to the present. Program selection. Analysis of choral pieces.
- 4690 Piano Literature.** Three credits. Survey of the basic literature of the harpsichord and the piano from the eighteenth century to the present. Live performance, analysis, and research.
- 4710 Vocal Literature.** Three credits. Basic repertory of Italian airs, German lieder, French art songs, and solo vocal works of other nationalistic schools, as well as English and American song literature.
- 4720 Organ Literature.** Two credits. A chronological study of organ literature from the Medieval period to the present. Objectives include knowledge of the repertoire and composers and historical perspective of styles and organ building.
- 4730 Brass Literature.** Two credits. A chronological study of brass literature from the Renaissance period to the present. Objectives include knowledge of the repertoire and composers and historical perspective of styles, types, and common performance practice.
- 4740 Percussion Literature.** Two credits. A chronological study of percussion literature from the nineteenth century to the present. Objectives include knowledge of the repertoire and composers and historical perspective of styles, types, and common performance practice.
- 4750 String Literature.** Two credits. A chronological study of string literature from the nineteenth century to the present. Objectives include knowledge of the repertoire and its composers and historical perspective of styles, types, and common performance practice.
- 4760 Woodwind Literature.** Two credits. A chronological study of woodwind literature from the Renaissance period to the present. Objectives include knowledge of the repertoire and composers and historical perspective of styles, types, and common performance practice.
- 4790 Orchestral and Wind Ensemble Literature.** Two credits. An in-depth study of orchestral and wind ensemble repertoire.
- 4800 Art Music and African Americans.** Two credits. A chronological and topical overview of African American musicians and composers and the primary genres of African American art music from slavery to the present.

## Courses in Music Pedagogy [MUPD]

- 2180 Diction for Singers I (English and Latin).** Two credits. Lecture demonstration course for familiarization of the International Phonetic Alphabet and correct pronunciation of texts in English and Latin.
- 2190 Diction for Singers II (Italian).** Two credits. Prerequisite: MUPD 2180. Lecture demonstration course for familiarization of the International Phonetic Alphabet and correct pronunciation of texts in Italian.
- 2200 Diction for Singers III (German).** Two credits. Prerequisite: MUPD 2180. Lecture demonstration course for the familiarization of the International Phonetic Alphabet and correct pronunciation of texts in German.
- 2210 Diction for Singers IV (French).** Two credits. Prerequisite: MUPD 2180. Lecture demonstration course for familiarization of the International Phonetic Alphabet and correct pronunciation of texts in French.
- 3050 Jazz Pedagogy.** Two credits. Techniques and methods of teaching jazz studies including the training of jazz ensembles and combos.
- 4110 Advanced Brass Pedagogy.** Two credits. Advanced study of conceptual, physiological, acoustical, and pedagogical methods and materials used in the teaching of beginning, intermediate, and advanced brass students.
- 4120 Advanced Percussion Pedagogy.** Two credits. Advanced study of conceptual, physiological, acoustical, and pedagogical methods and materials used in the teaching of beginning, intermediate, and advanced percussion students.



- 4130 Advanced String Pedagogy.** Two credits. Advanced study of conceptual, physiological, acoustical, and pedagogical methods and materials used in the teaching of beginning, intermediate, and advanced string students.
- 4140 Advanced Woodwind Pedagogy.** Two credits. Advanced study of conceptual, physiological, acoustical, and pedagogical methods and materials used in the teaching of beginning, intermediate, and advanced woodwind students.
- 4310 Vocal Pedagogy. Two credits.** Techniques for teaching the fundamentals of singing. Vocalises and repertoire. Physical aspects of singing.
- 4320 Piano Pedagogy.** Two credits. The various technical and philosophical approaches in teaching piano. Examination of teaching repertory through intermediate level. Supervised teaching through intermediate level.
- 4330 Organ Pedagogy.** Two credits. Instruction in the principles of teaching organ—(1) manual and pedal techniques, (2) organ methods, and (3) organ repertoire of varying degrees of difficulty and of all period styles from pre-Bach through twentieth century.
- 4350 Guitar Pedagogy.** Two credits. Study of the theoretical and practical basis of teaching guitar.

## Courses in Music Theory [MUTH]

- 1000 Elements of Music.** Three credits. For those needing remedial work before enrolling in Theory 1110. Topics covered include music reading in G and F clefs, intervals, major and minor scales; rhythm.
- 1110 Theory and Aural Skills I.** Four credits. Prerequisite: MUTH 1000 with grade of C- or higher or satisfactory score on theory diagnostic exam. Harmonic tonality and fixed-do solfège through chorale analysis and harmonizations of given bass lines. Major and minor scales and harmonizations through secondary function.
- 1120 Theory and Aural Skills II.** Four credits. Prerequisite: MUTH 1110. Harmonic tonality and fixed-do solfège through chorale analysis and harmonizations of given bass lines. Modal scales, harmonization, and analysis through the augmented sixth.
- 2110 Theory and Aural Skills III.** Three credits. Prerequisite: MUTH 1120. Harmonic tonality and twentieth-century vocabularies. Nineteenth-century chromaticism.
- 2120 Theory and Aural Skills IV.** Three credits. Prerequisite: MUTH 2110. Continued study of harmonic tonality and twentieth century vocabularies. Twentieth-century practices.
- 3020 Commercial Songwriting.** Three credits. (Same as RIM 3020.) Prerequisites: RI majors - admission to candidacy and RIM 1230 or MUTH 1110 or permission of instructor; others - permission of instructor. Organization of ideas, words, and music into the writing of popular songs. Analysis of songwriting trends. Students will be expected to play guitar or piano and sing.
- 3110 Counterpoint.** Three credits. Prerequisite: MUTH 2120 with C or better. Review and continuation of contrapuntal techniques. Canon, imitation, various contrapuntal devices, inventions, and beginning fugue. Analysis and some degree of original work.
- 3160 Jazz Theory I.** Three credits. Prerequisite: MUTH 1120. Exploration of the harmonic syntax, melodic construction, and song forms in jazz music. Analysis, listening, original composition, and practice hearing jazz chords and progressions.
- 3170 Jazz Theory II.** Three credits. Prerequisite MUTH 3160. Further study of jazz harmonic and melodic language, including non-functional harmony, modal progressions, and other post-bebop developments. Analysis, ear training, and much original composition.
- 4110 Form and Analysis.** Three credits. Prerequisite: MUTH 2120. Binary and ternary forms, simple rondos and sonatinas progressing to sonata form, large rondos, theme and variations, art song, and free forms. Stylistic analysis and study of devices and materials from early to contemporary periods.
- 4130 Instrumentation.** Two credits. Prerequisite: MUTH 2120. Compass and tonal qualities of band and orchestra instruments; transposition. Fundamentals of arranging for various instrumental groupings.



- 4170 Jazz Arranging.** Two credits. Prerequisite: MUTH 3160 or permission of instructor. Fundamental considerations in arranging music for small jazz ensembles. Stylistic elements of melody, harmony, rhythm, texture, and form; notation, score preparation, and layout. Students will complete an arrangement for five horns and rhythm section.
- 4180 Improvisation I.** Two credits. Prerequisite: MUTH 1120 or permission of instructor. Basic tools of jazz improvisation including chord/scale relationships, melodic construction, and practice techniques. In-class playing over blues, rhythm changes, and other standard jazz progressions. Elements of the bebop style. Preparation of playing exercises and several solo transcriptions.
- 4190 Principles and Practices of Electronic Music.** Three credits. (Same as RIM 4190.) Prerequisites: RI majors - admission to candidacy and RIM 1230 or MUTH 1110; others-RIM 3010, RIM 1230 or MUTH 1110, or permission of instructor. History and techniques of electronic music including analog and digital sound generation and manipulation, control systems, MIDI, Macintosh basics, and an introduction to sequencer and editor/librarian software. Laboratory required.
- 4270 Choral Arranging.** Two credits. The fundamentals of arranging musical works for vocal ensembles of various sizes, combinations, and skill levels.
- 4280 Jazz Arranging II.** Three credits. Prerequisite: MUTH 4170. Advanced analyzing and arranging of various combinations of instruments and voice for small and large jazz ensembles; periods, performance practices, stylistic features, and artists.
- 4290 Electronic Music II.** Three credits. Prerequisite: MUTH 4190. (Same as RIM 4290.) Prerequisites: RI majors - admission to candidacy and RIM/MUTH 4190, others - RIM/MUTH 4190. Advanced techniques of sound manipulation and introduction to digital sampling, alternate controllers, and MIDI control of effects devices. Advanced sequencing including modular composition, remote controls, and MIDI automation.
- 4380 Improvisation II.** Two credits. Prerequisite: MUTH 4180. Continuation and expansion of materials covered in MUTH 4180. Application of advanced scales and construction of more chromatic melodies. Elements of post-bebop styles. In-class playing of exercises, transcriptions, and improvised solos.
- 4590 MIDI Studio Techniques.** Three credits. (Same as RIM 4590.) Prerequisites: RI majors - admission to candidacy, RIM/MUTH 4290, and RIM 4400; others - RIM/MUTH 4290 and RIM 4400 or permission of instructor. MIDI systems design and the total integration of all MIDI-controllable devices. SMPTE and MIDI Time Code and their application to tape synchronization. A continuation of advanced techniques for digital sampling, sequencing, sound manipulation, and use of alternate controllers. Other topics include sound effects and music scoring for film and video and the MIDI Machine Control and MIDI Show Control specifications. Laboratory required.

### Graduate Study

The school offers the Master of Arts degree. Requirements for this degree and a list of the courses offered for graduate credit are published in the Graduate Catalog.

# Department of Philosophy

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**Ron Bombardi, Chair**  
**James Union Building 302**

**Hinz, Hood, Johnson, Magada-Ward, Principe, Purcell**

The Department of Philosophy offers courses intended to acquaint students with philosophical methods, systems, and problems, as well as supply a philosophical background for graduate study in philosophy or related areas. Courses in religious studies are intended to acquaint students with the history and the beliefs of the major religions of the world. Programs in the department lead to a Bachelor of Arts degree with a major in Philosophy. Minors are offered in Philosophy and Religious Studies.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

## Major in Philosophy

The major in Philosophy consists of 30 semester hours of philosophy courses including PHIL 2110, 4010, and 4020.

All students pursuing a major within this department must complete the General Education requirements. Following is a suggested pattern of study for the first two years; however, consultation with the assigned advisor is necessary before each registration.

### Recommended Curriculum

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
Natural Sciences (2 prefixes)	8	HUM 2610 (Hum/FA)	3
PHIL 1030 (Hum/FA)	3	HIST 2010, 2020, or 2030	6
Major/minor electives as advised	10	Social/Behavioral Sciences (2 prefixes)	6
COMM 2200 (Comm)	3	PHIL 2110, 3150	6
	<b>30</b>	Major/minor electives as advised	9
			<b>30</b>

## Minor in Philosophy

A minor in Philosophy consists of 18 semester hours of philosophy courses.

## Minor in Religious Studies

A minor in Religious Studies consists of 18 semester hours of courses in religious studies. PHIL 3200, 3300, and ANTH 4750 may be counted in the 18 hours.

## Courses in Philosophy [PHIL]

- 1030 Introduction to Philosophy.** Three credits. Basic philosophical problems suggested by everyday experience integrated into a coherent philosophy of life through comparison with solutions offered by prominent philosophers.
- 2110 Elementary Logic and Critical Thinking.** Three credits. Principles of deductive and inductive reasoning, problem solving, and the analysis of arguments in everyday language.
- 3150 Ethics.** Three credits. Major ethical theories, the moral nature of human beings, the meaning of good and right.
- 3200 Oriental Thought.** Three credits. The origins, development, essence, and implications of leading philosophical-religious traditions originating in the Orient.
- 3300 Philosophy of Religion.** Three credits. Problems of religious experience, religious knowledge, the existence and nature of God, evil, and immortality.
- 3400 Symbolic Logic.** Three credits. (Same as MATH 3400.)
- 3500 Philosophy and the African American Experience.** Three credits. Examines sociopolitical and existential concerns of African Americans, especially in respect to issues of justice, equality, and the very meaning of life in a world of anti-black racism, against the backdrop of "enlightenment" philosophical discourse on race and personhood.
- 3600 Philosophy and Film.** Three credits. Examination of the cinematic expression of philosophical issues and development of philosophical issues in cinema.
- 3690 Social Philosophy.** Three credits. The main problems of social philosophy are surveyed: the distinctive nature of social reality and the nature of social knowledge and how they relate to value theory.
- 4010 History of Ancient and Medieval Philosophy.** Three credits. Prerequisite: PHIL 1030 or permission of instructor. The development of philosophical thought from Thales to Occam.
- 4020 History of Modern Philosophy.** Three credits. The development of philosophical thought from Hobbes to Hegel.
- 4050 Nineteenth-Century Philosophy.** Three credits. Emphasis on movements such as German idealism, the rise of the philosophy of the social sciences, historical materialism, utilitarianism, and early critiques of modernism.
- 4100 Aesthetics.** Three credits. The nature of art, aesthetic experience, and artistic creation.
- 4150 Formal Logic.** Three credits. The nature and methods of formal deductive logic, truth functional logic, quantification theory, identity relations, propositional calculus.
- 4200 Existentialism.** Three credits. The nature, significance, and application of the teachings of several outstanding existential thinkers.
- 4240 Recent Continental Philosophy.** Three credits. The critical examination of various movements and key figures in recent European philosophy.
- 4300 American Philosophy.** Three credits. Development of American thought with emphasis on naturalism, idealism, and pragmatism.

- 4350 Philosophy of Language.** Three credits. Prerequisite: PHIL 2110 recommended. Introduces students to the most influential analyses of meaning, reference, and truth of early twentieth-century Anglo-American philosophy; explores how the work of Ludwig Wittgenstein transforms canonical accounts of language; considers the role of metaphor in human communication and understanding.
- 4400 Analytic Philosophy.** Three credits. Logical empiricism, recent realism, and ordinary-language philosophy, as well as the nineteenth-century backgrounds of these movements.
- 4450 Marx and Marxism.** Three credits. An examination of the development of Marxist philosophy up to and including the present.
- 4500 Philosophy of Science.** Three credits. The methods, problems, and presuppositions of scientific inquiry.
- 4550 Philosophy of Mind.** Three credits. Classical philosophy of mind (emphases: the mind-body problem, theories of consciousness) and contemporary applications of philosophy to psychology (emphases: logic and cognition, emotion and reason, artificial intelligence).
- 4600 Philosophy of History.** Three credits. Nature of historical knowledge and problems of historical inquiry; meaning and value of history; reality of the past; historical determinism and human freedom.
- 4800 Readings in Philosophy.** Three credits. Prerequisite: Permission of instructor. Directed study concerning a particular philosophical problem or thinker.

## Courses in Religious Studies [R S]

- 3010 The Bible: Its Origin and Content.** Three credits. How the Bible came into being, including the origin of manuscripts, principles of textual criticism, inspiration, inerrancy, history, and translations. An introduction to the individual books of the Bible.
- 3020 Comparative Religion.** Three credits. The meaning of religion in life, both ancient and modern. The impact of intellectual and emotional commitment upon conduct is emphasized through a study of world religions.
- 3040 The History of Christianity.** Three credits. Main developments in the doctrinal affirmations of the Christian church and their Biblical background.
- 4020 Jesus of Nazareth.** Three credits. The life of Jesus presented against the historical, religious, geographical, and archaeological background of the world of the first century A.D. and in light of recent discussions, movements, and books.
- 4050 Judaism, Christianity, and Islam.** Three credits. Historical development of the idea of one God through Judaism, Christianity and Islam; their relation to other religions of the world.
- 4800 Readings in Religious Studies.** Three credits. Directed study concerning a particular problem or thinker within religious studies.

## Honors College

PHIL 1030 is offered periodically.



# Department of Political Science

**John R. Vile, Chair**  
Peck Hall 209

Byrnes, Carleton, Franklin, Korobkov, Langenbach, Livingston, Maynor, McDaniel, Perez-Reilly, Sloan, Tesi, Vernardakis, Willis

Courses in the Department of Political Science meet the needs of many students: those interested in public service, private business, or professional careers; those who wish to go to law school; those interested in international relations and foreign service employment in the public or private sector; and those interested in teaching government and social studies in secondary schools.

To accommodate these needs and interests within the objectives of liberal education, the department offers programs leading to the Bachelor of Arts and Bachelor of Science. The major areas and appropriate degrees follow:

1. a Political Science major (B.A. or B.S.) with either a
  - a. general focus or
  - b. Public Administration concentration or
  - c. Pre-law concentration;
2. an International Relations major (B.S.).

Minors are offered in Political Science, International Relations, and Public Administration. Interdisciplinary minors in Urban Studies, Russian Studies, and Paralegal Studies are coordinated by the department.

All students at the University must fulfill the General Education requirements. These courses are primarily in the fields of English, history, science, and mathematics. Following are suggested curricula, but students should study the requirements carefully and consult with their advisors on those courses.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

## Major in Political Science

The major in Political Science requires 33 semester hours of work, including P S 1010, 2010, 4000, and 4800.\* All majors must include work in **at least five** of the following groups:

1. American government (P S 2020, 3050, 3060, 3100, 3160, 3320, 3330, 3350, 3400, 4120, 4250, 4360, 4410)
2. Comparative government (P S 3000, 3180, 3190, 3200, 3300, 3310, 3770, 3900)

3. International relations (P S 2130, 3000, 3210, 3220, 3500, 3510, 3780, 3910, 4126, 4220, 4240, 4250)
4. Public law (P S 2440, 3010, 3370, 3380, 3500, 3530, 4040, 4590)
5. Public administration (P S 3250, 3260, 3400, 3440, 4050, 4290, 4630)
6. Political theory and research methods (P S 4020, 4110, 4230, 4700, 4920)

\*Those with a Pre-law concentration must take P S 1010, 2010, 4800, and two of the four following courses: P S 4000, 4230, 4700, 4920. Those with no concentration must take one of the following courses: P S 4230, 4700, 4920.

### Recommended Curriculum

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
COMM 2200 (Comm)	3	HUM 2610 (Hum/FA)	3
Mathematics	3	Humanities and/or Fine Arts	
P S 1010 (Soc/Beh Sci)	3	(2 prefixes)	6
P S 2010	3	Social/Behavioral Sciences	3
Natural Sciences (2 prefixes)	8	HIST 2010, 2020, or 2030	6
Foreign Language/Minor*	6	P S area requirements	6
	<b>32</b>	Foreign Language/Minor	6
			<b>30</b>
JUNIOR		SENIOR	
P S area requirements	9	P S 4230, 4700, or 4920	3
P S 4000	3	P S 4800	3
Minors	12	P S area requirements	3
Electives	6	Minors	12
	<b>30</b>	Electives	7
			<b>28</b>

\*Students pursuing the B.S. degree rather than the B.A. degree should take a second minor.

### Concentration: Public Administration

The Public Administration concentration is for those seeking administrative careers in government or public service agencies. A combination of general political science courses, core public administration courses, pertinent political science electives, and courses in related disciplines provides a sound background for an administrative career. Included in the major must be some work in five of the six political science sub-fields. Required courses are P S 1010, 2010, 4000, 4800 (general); P S 3250, 4290 (core); nine semester hours from P S 2020, 3160, 3260, 3400, 3440, 4050, 4590, 4630 (core); and six or more semester hours of coursework in political science relevant to public administration and the student's interests. In addition the student must complete INFS 3100 and ECON 2410, 2420. ACTG 2110, 2120 are recommended. Recommended minors include Accounting, Business Administration, Criminal Justice Administration, Economics, Finance, English, Information Systems, Psychology, and Sociology.

### Recommended Curriculum

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
COMM 2200 (Comm)	3	HUM 2610 (Hum/FA)	3
Mathematics	3	Humanities and/or Fine Arts	
P S 1010 (Soc/Beh Sci)	3	(2 prefixes)	6
P S 2010	3	ECON 2410 (Soc/Beh Sci)	3
Natural Sciences (2 prefixes)	8	ECON 2420	3
Foreign Language/Minor	6	HIST 2010, 2020, or 2030	6
	<b>32</b>	P S 3250	3
		Foreign Language/Minor	6
			<b>30</b>

<b>JUNIOR</b>		<b>SENIOR</b>	
INFS 3100	3	P S 4800	3
P S 4000	3	P S 4290	3
P S designated courses	6	P S	9
Minors	12	Minors	12
ACTG 2110, 2120	6	Elective	1
	<b>30</b>		<b>28</b>

### Concentration: Pre-law

The Pre-law concentration is designed for the student who plans to attend law school. A combination of core political science courses and courses in related disciplines has been found to provide a sound background for law school. Some law schools will not accept any professional or technical courses as part of their minimum requirement. It is essential that the student consult with his or her advisor in instances where such courses will be taken. In addition to meeting the basic requirements for the Political Science major, the Pre-law student must enroll in ECON 2410 (or 2420); PHIL 2110; COMM 3210 (or 2200); and P S 3530 (or ENGL 3500); ACTG 3000 or BLAW 3400; and one upper-division P S law class.

#### Recommended Curriculum

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
COMM 2200 (Comm)	3	HUM 2610 (Hum/FA)	3
Mathematics	3	Humanities and/or Fine Arts	
P S 1010 (Soc/Beh Sci)	3	(2 prefixes)	6
P S 2010	3	ECON 2410 (Soc/Beh Sci) or	
Natural Sciences (2 prefixes)	8	ECON 2420	3
Foreign Language/Minor	6	HIST 2010, 2020, or 2030	6
	<b>32</b>	P S 2440	3
		PHIL 2110	3
		Foreign Language/Minor	6
			<b>30</b>

<b>JUNIOR</b>		<b>SENIOR</b>	
P S 3370, 3380	6	P S Political Theory	6
ENGL 3500 or P S 3530	3	P S cognate course	3
ACTG 3000 or BLAW 3400	3	Minors	12
P S 4800	3	P S area requirement	3
Minors	12	Electives	4
P S area requirement	3		<b>28</b>
	<b>30</b>		

### Minor in Political Science

The minor in Political Science requires 18 semester hours of work, including P S 1010 and 2010.

### Minor in Public Administration

The minor in Public Administration requires 18 semester hours of work: P S 2010, 3250, and 12 semester hours to be selected from P S 2020, 3160, 3260, 3400, 3440, 4050, 4120, 4290, 4590, 4630.

### Major in International Relations

The major in International Relations requires 33 semester hours of work including P S 1010, 2010, 3210, 3220, and 4240. All majors must choose two courses from each of the following subfields:

1. International Relations (P S 3000, 3500, 3510, 3910, 4126, 4220, and 4250)

2. Comparative Government (P S 3180, 3200, 3190, 3300, 3310, 3770, 3780, 3790, and 3900)
3. The remaining six hours may be drawn from any of the courses listed above or from P S 4000, 4200, 4230, 4800, and 4920.

Substitutions may be made with the advisor's consent.

It is preferable that minors and electives be in foreign languages, humanities, or social science offerings that significantly contribute to an understanding of economic, geographical, historical, and cultural factors in international relations or in areas that provide students with substantive skills related to a professional environment such as business and computer science. Recommended related courses in social science are ANTH 2010; ECON 2140, 4440, 4470; GEOG 3420, 3430, 3460, 4330, 4500; HIST 3150, 4530, 4330, 4340; SOC 4510, 4520. Interdisciplinary minors with a cross-cultural or area studies emphasis are also recommended.

#### Recommended Curriculum

<b>FRESHMAN</b>		<b>SOPHOMORE</b>	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
COMM 2200 (Comm)	3	HUM 2610 (Hum/FA)	3
Mathematics	3	Humanities and/or Fine Arts	
P S 1010 (Soc/Beh Sci)	3	(2 prefixes)	6
P S 2010	3	Social/Behavioral Sciences	3
Natural Sciences (2 prefixes)	8	HIST 2010, 2020, or 2030	6
Minor	6	P S 3210, 3220	6
	<b>32</b>	Minor	6
			<b>30</b>

<b>JUNIOR</b>		<b>SENIOR</b>	
P S subfields (IR/Comp)	6	P S 4240	3
P S designated course	3	P S subfields (IR/Comp)	6
Minor	12	Minor	12
Electives	9	P S designated course	3
	<b>30</b>	Electives	4
			<b>28</b>

### Minor in International Relations

The minor in International Relations requires 18 semester hours from P S 1010, 2010, 3000, 3180, 3190, 3210, 3220, 3300, 3310, 3500, 3510, 3770, 3780, 3790, 3900, 3910, 4126, 4200, 4220, 4240, 4920. P S 1010, 2010, and 3210 are mandatory.

### Major or Minor in Political Science with Teacher Licensure

Students who want to teach government in high school should minor in Secondary Education; complete 12 hours of history (may include General Education requirements); minor in History (highly recommended), Economics, or Geography; and take 33 hours in political science. These should include the political science core curriculum (P S 1010, 2010, 4000, 4800, and either P S 4230, 4700, or 4920), either P S 3210 or 4220 (International Relations), and 18 elective hours with at least one course in three of four specified areas—American Government, Public Law, Public Administration, and Comparative Government. Students must also complete additional teacher licensure requirements including COMM 2200 and either HIST 1010, 1020, 1110, or 1120.

Students with teacher licensure in History, Geography, and Economics who are seeking an add-on endorsement in Government must take P S 1010, 2010, 2440, 3210 or 3300, 2020 or 4120, and an upper-division class in political theory for a total of 18 hours. Students without licensure in History, Geography, and Economics who are seeking an add-on endorsement in Government must take the classes above plus 3 additional hours of political science (a total of 21 hours).

**NOTE:** *The Secondary Education minor has been revised. Please see page 193 and contact the Educational Leadership Department for information.*

## Interdisciplinary Minors

Interdisciplinary minors are open to all students in the University. The Department of Political Science coordinates the interdisciplinary minors in Urban Studies, Paralegal Studies, and Russian Studies. See Interdisciplinary Minors beginning on page 76.

## Courses in Political Science [P S]

*Courses marked with an \* are offered only in alternate years.*

- 1010 Foundations of Government.** Three credits. **Meets part of the General Education Social/Behavioral Sciences requirement.** Comparative theories and institutions of government. Law, constitutions, power, political socialization, ideologies, and the media.
- 2010 American Government and Politics.** Three credits. Constitutional principles, functions, and administration of American federal government; Congress, the Presidency, and the Supreme Court. **A General Education Social/Behavioral Sciences course.**
- 2020 State and Local Government.** Three credits. Prerequisite: P S 2010. Politics and administration at the state and local level. Legislative, judicial, and administrative structures and processes; major issues and problems.
- 2100 Legal Courtroom Procedure.** One credit. For students interested in developing trial advocacy skills; practical course offering preparation for mock trial competition. May be repeated for up to four hours credit. Pass/Fail.
- 2105 Introduction to Latin American Studies.** Three credits. (Same as SPAN 2105, SOC 2105, ART 2105, ANTH 2105, GEOG 2105.) A multidisciplinary, team-taught introduction to Latin America. Covers the cultures and societies of the region: pre-history, history, geography, politics, art, languages, and literatures. Required course for all Latin American Studies minors.
- 2120 Mediation Procedure.** One credit. Prerequisite: P S 2440 or permission of department chair. For students interested in developing skills as mediators and advocates in mediation settings. Practical application of theories, methods, and ethical components of mediation. Participation in intercollegiate mediation competition. May be repeated for up to four hours of credit. Pass/Fail.
- 2130 Model United Nations/Crisis Simulation.** One credit. For students interested in developing skills in negotiation and conflict resolution involving international issues. A practical application of negotiating skills, policy process, and understanding of international conflicts and problems through participation in intercollegiate MUN/crisis simulation competition. Course may be repeated for up to 4 hours of credit.
- 2440 Law and the Legal System.** Three credits. Prerequisite: P S 2010. A general introduction to American law and the American legal system; focus on the case system.
- 3000 The Political Status of Women in the World.** Three credits. Prerequisite: P S 1010 or 2010 or WMST 2100. Considers both developed and developing countries. Emphasizes ferment and change in the twentieth century in terms of emergent concepts of equality; highlights effects of religion, economy, culture, and psychological behavior on the politics of male-female relationships.
- 3010 Women and the Law.** Three credits. Prerequisite: P S 1010 or 2010 or permission of the department chair. Analysis of the legal treatment of women in the home, school, and workplace. Examines development of law, relationship of law to political movements, and current state of law and legal theory on women's rights and gender equality.
- 3050 The U.S. Presidency.** Three credits. Prerequisite: P S 1010 or permission of instructor. A comprehensive analysis of the presidency; includes origins of the presidency, political power, the nature of the institutionalized presidency, campaigns and elections, and a careful look at selected presidents.
- 3060 The U.S. Congress.** Three credits. Prerequisite: P S 2010. An analysis of the United States Congress; its origins, political power, the nature of the institutionalized Congress, campaigns, and elections.
- 3100 Politics and Film.** Three credits. Prerequisite: P S 1010 or 2010 or permission of instructor. Analysis of political ideas as expressed in motion pictures. Topics include leadership, political biographies, campaigns and elections, ideology, and war.
- 3160 American Public Policy.** Three credits. Prerequisite: P S 1010 or 2010. Examines the public policy-making process in the United States, the stages of policy development and the problems inherent in policy making. At least one substantive policy area examined in depth; examples: health care, environmental, welfare, agricultural, poverty, or budgetary policies.
- 3180 African Politics.** Three credits. (Same as AAS 3180.) Prerequisite: P S 1010. Comparative study of the political systems, modernization efforts, and development problems of countries with different traditions or colonial pasts, selected from the continent of Africa.
- 3190 Middle East Politics.** Three credits. Prerequisite: P S 1010. Emphasis on the Palestinian question, the Arab-Israeli wars, the role of the United Nations; conflicts between and among the Arab nations; the various peace initiatives that have been proposed.
- 3200 British Government and Films.** Three credits. Prerequisite: P S 1010 or 2010 or permission of instructor. The evolution of parliamentary government in the United Kingdom and its current distinctive characteristics, processes, and functions in contrast to other parliamentary regimes.
- 3210 International Relations.** Three credits. Prerequisite: P S 1010. The state system and national power, balance of power, balance of terror, game theory, psychological aspects of international conflict, decision making, diplomacy and negotiation, war, disarmament, and collective security.

- 3220 International and Comparative Politics in Theory and Practice.** Three credits. Prerequisites: P S 1010 and 3210. A reading and discussion seminar; theoretical approaches to studying international relations and comparative politics. Offers preparation for upper-division international relations and comparative politics courses; helps in choice of career goals.
- 3250 Public Administration.** Three credits. Prerequisite: P S 1010 or 2010. Fundamentals of public management—organization theory, leadership, policy making, planning, budgeting, personnel, administrative law, bureaucratic behavior.
- 3260 Applied Public Administration.** Three credits. Prerequisite: P S 3250 or permission of instructor. Emphasizes selected issues, agencies, and problems. Normally entails the application of administrative concepts to administrative problems and learning by doing.
- 3300 Comparative European Governments.** Three credits. Prerequisite: P S 1010. Comparative analysis of the governmental forms and practices of England, France, Germany, the European community, and others.
- 3310 Comparative Asian Governments.** Three credits. Prerequisite: P S 1010. Comparative analysis of the governmental forms and practices of China, Japan, and India.
- 3320 Public Opinion.** Three credits. Prerequisite: P S 1010 or 2010. The nature of public opinion and its role in the political and social process. How opinion is shaped, created, and measured.
- 3330 Political Parties.** Three credits. Prerequisite: P S 1010 or 2010. The nature of democracy, politics, and political parties; party organization and role in government; campaigning; primaries, conventions, general elections; the Electoral College; voting behavior and pressure groups.
- 3340 Political Campaign Management.** Three credits. Prerequisite: P S 1010 or 2010 or permission of instructor. An analysis of applied politics; how to plan and manage a modern political campaign. Readings, discussions, and hands-on projects; students will learn the strategies, tactics, and varied techniques of political campaigning.
- 3350 Interest Groups and Social Change.** Three credits. Prerequisite: Upper-level standing required. Examines role of interest groups in American politics and the policy-making process, including the role of lobbyists, money, and politics, and case studies of several specific interest groups.
- 3370, 3380 American Constitutional Law.** Three credits. Prerequisite: P S 2010; P S 2440 recommended. The Supreme Court as a policy-making body in the governmental system. Emphasis on case studies in major areas of conflict including federalism, civil liberties, criminal procedure, and economic regulation.
- 3400 Municipal Government.** Three credits. Prerequisite: P S 1010 or 2010. Powers, functions, and politics of municipal governments from the standpoint of city management. Attention is given to problems related to the execution of municipal policy.\*
- 3420 African American Politics.** Three credits. Prerequisite: P S 2010 or permission of instructor. The unique history, content, and form of African American political participation; examines the nature of consequences of African American influence within, or exclusion from, the workings of various American political institutions; the nature and types of issues that influence contemporary discussions in American and African American politics related to the socioeconomic conditions of African Americans.
- Students who have taken P S 4390 Special Topics (Black Politics in America) may not take P S 3420 for credit.
- 3440 Governmental Budgeting and Finance Administration.** Three credits. Prerequisite: P S 1010 or 2010; P S 3250 recommended. Analysis of the legal and social nature of government budgets emphasizing the procedures and administrative methods of fiscal control. Budget documents at state and local levels.\*
- 3490 Alternative Dispute Resolution.** Three credits. Prerequisite: P S 2440 or permission of the department chair. Theory, methods, and ethical components of alternative dispute resolution (ADR); emphasis on various forms of mediation, but including other ADR formats such as arbitration, negotiation, and summary jury trial.
- 3500 International Law.** Three credits. Prerequisite: P S 1010 or 2010. General principles of modern international law taught by the case study method in a seminar format encouraging debate and discussion. Issues concerning the development of international law and human rights will be studied.
- 3510 International Political Economy.** Three credits. Prerequisites: P S 1010 and 3210 or permission of instructor. The relation between politics and economics in international affairs and its implications for global peace, security, ecology, and social welfare.
- 3530 Legal Writing and Research.** Three credits. Prerequisite: Junior status. A specialized composition course for the student planning to attend law school or paralegal school or to become a legal secretary. Practice in legal research, documentation, and a variety of legal problems.
- 3770 The Former Soviet Union.** Three credits. Prerequisite: P S 1010. In-depth study of the development, nature, and future of the nations of the former Soviet Union.
- 3780 Study Abroad.** Three or six credits. Prerequisite: P S 1010 or permission of instructor. Supervised study in a foreign country; familiarizes students with foreign cultures and political systems. Three to six hour classes may be repeated once if country of destination varies. No more than 6 hours may count toward a political science major. Pass/Fail.
- 3790 Eastern European Politics.** Three credits. Prerequisite: P S 1010. Comparative study of Eastern Europe states and societies. Emphasis on post-Communist transition, democratization, and interethnic relations.
- 3900 Latin American Politics.** Three credits. Prerequisite: P S 1010. Emphasis on the comparative analysis of structures, functions, and aspects of Latin American political cultures and systems.
- 3910 International Organization.** Three credits. Prerequisite: P S 1010; P S 3210 recommended. Development and prospects of the United Nations Organization and its major approaches to peace—pacific settlement, collective security, international law, arms control, trusteeship, preventive diplomacy, international conferences, functionalism.\*
- 4000 Quantitative Methods of Research.** Three credits. Prerequisite: 9 hours of political science. Fundamentals of quantitative methods in empirical research problems in the social sciences.
- 4020 Political Science Laboratory.** Three credits. Prerequisite: P S 4000 or permission of instructor. Studies of a research, statistical, data processing, or simulation nature as related to political and social questions.



- 4040 Pre-Law Internship.** Three credits. Prerequisites: Senior standing, competitive selection, P S 2440, or by permission of instructor. Familiarizes pre-law students with general law office procedures and an active law environment.
- 4050 Introduction to City and Regional Planning.** Three credits. Prerequisite: P S 1010 or 2010; P S 2020 recommended. Analysis of the basis of particular forms in urban settlements and regions; introduction to planning history, theory, methods, processes, and current trends.
- 4110 Quantitative Methods of Research.** Three credits. Prerequisite: P S 4000. Intermediate quantitative methods.
- 4120 Tennessee Government.** Three credits. Prerequisite: P S 2010; P S 2020 recommended. Structure, functions, and processes of Tennessee's governmental and political institutions. Policy issues studied.
- 4126 Contemporary Issues in World Affairs.** Three credits. Prerequisite: P S 1010; P S 3210 recommended or permission of instructor. Issue oriented; explores and analyzes the leading issues facing the international community and actions that various actors in world politics have employed to deal with the issues and with what results.
- 4200 Problems in Government.** Three credits. Prerequisites: P S 1010 or 2010 and at least 12 hours of P S classes. Work done under the close direction of a professor on a tutorial basis. Student expected to present a sound proposal for departmental consideration and acceptance before enrolling in this course.
- 4220 World Politics.** Three credits. Prerequisite: P S 1010; 3210 recommended. Experiencing contemporary international politics through the medium of simulation. Particular focus areas include the U.S., F.S.U., People's Republic of China, the Middle East, South Asia, and Southern Africa.
- 4230 Classical Political Theory.** Three credits. Prerequisite: P S 1010 or 2010. Western political theory from the ancient Greeks through the medieval Christians. Includes Sophocles, Aristophanes, Plato, Aristotle, stoicism, skepticism, Lucretius, Augustine, Thomas Aquinas, Thomas More.
- 4240 American Foreign Policy.** Three credits. Prerequisite: P S 1010 or 2010; P S 3210 recommended. Foreign policies in the nuclear age from Kennan and Containment to the present with particular emphasis on contemporary problems and policies.
- 4250 U.S. National Security Policy.** Three credits. Prerequisite: P S 1010 or 2010; P S 3210 recommended. The concept of national security, nature of the U.S. security experience, decision-making process, policy-making process, threats to security, and analysis of specific policy areas such as military and strategic doctrines, force postures, arms control, and budgetary decisions.
- 4270 Political Campaign Internship.** One to six credits. Prerequisites: Sophomore standing, P S 2010, and a 2.50 minimum GPA. Students work for a political campaign as an employee under the joint administration of the campaign and the department. Only six hours may count toward a political science major and three hours toward a political science minor. Arrangement for this course must be made in advance. Pass/Fail.
- 4280 The Washington Experience.** Twelve credits. A cooperative program with the Washington Center that provides for student service with a governmental office in Washington, D.C., on a full-time basis during the fall or spring semester. On-the-job training will be supplemented with lectures and other activities. Students selected on a competitive basis. Only six hours count toward a Political Science major.
- 4290 Public Service Internship.** Three to twelve credits. Prerequisites: Junior standing and 2.50 minimum GPA. Student assigned to a public service agency as an employee under the joint administration of the agency and the department. Only six hours may count toward a political science major and three hours toward a political science minor. Arrangement for this course must be made in advance. Pass-Fail course.
- 4360 Legislative Internship.** Twelve credits. A cooperative program with the State of Tennessee that provides for student service with the legislature on a full-time basis during the spring semester. Students selected on a competitive basis. Only six hours may count toward a Political Science major.
- 4390 Special Topics in Political Science.** Three credits. Prerequisite: P S 1010 or 2010 or permission of the instructor. An in-depth study of a special topic significant in contemporary political developments or political science literature. May be taken more than once, as topics change, with up to six credit hours applied to a Political Science major.
- 4410 American Political Economy.** Three credits. Prerequisite: P S 1010 or 2010. Interaction of politics and economics in the United States. Three primary topics: (1) the connection between the American political system and U.S. economic goals and performance; (2) the relationship between the American state and private economic interests in determining American economic and business policies; (3) the politics surrounding the major current economic issues facing America.
- 4590 Administrative Law.** Three credits. Prerequisite: P S 2010; P S 3250 recommended. Procedural aspects, substantive issues, judicial review of the type of law concerned with the powers and procedures of government agencies and the rights of citizens affected by them.
- 4630 Personnel Management.** Three credits. Prerequisite: P S 3250 or permission of instructor. Human resources administration in government agencies. Patterns of position classification, compensation, recruitment, selection, training, performance appraisal, promotion, discipline, separation, collective bargaining.\*
- 4700 American Political Thought.** Three credits. Prerequisite: P S 2010. Major thinkers and movements in American political thought from colonial times to the twentieth century with special emphasis on the thoughts of the framers of the American Constitution and their contemporaries.
- 4800 Senior Seminar.** Three credits. Prerequisites: P S 1010, 2010, and senior standing. A reading and discussion seminar in which each of the seven subdisciplinary areas of political science is looked at to broaden the major's knowledge of the scope and literature of the discipline.
- 4920 Modern Political Theory.** Three credits. Prerequisite: P S 1010 or 2010. Western political theory from the Renaissance to the twentieth century. Includes Machiavelli, Hobbes, Locke, Rousseau, J. S. Mill, Marx and Engels, Kierkegaard, Nietzsche, facism, existentialism, Strauss, Arendt, and contemporary thought.

*Courses marked with an \* are offered only in alternate years.*

## Courses in Paralegal Studies [PLEG]

**3010 Litigation.** Three credits. Prerequisites: P S 2010 and 2440. Legal procedures required for introducing and pursuing cases in the judicial system.

**3410 Family Law.** Three credits. Prerequisites: P S 2010 and 2440. The law of marriage, divorce, child custody and support, adoption, paternity, and related issues.

**3420 Torts.** Three credits. Prerequisites: P S 2010 and 2440. The law of injury to legally protected interests in personal safety, liberty, and property.

**4010 Internship.** Three credits. Supervised work in a law office or agency as a paralegal assistant.

## Honors College

The department offers these courses in Honors:

Political Science 1010 (Fall)

Political Science 2010 (Spring)

Political Science 4230 (Fall)

## Graduate Study

A graduate minor is offered in Political Science. Requirements and a list of the courses offered for graduate credit are published in the Graduate Catalog.



# Department of Social Work

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**Charles Frost, Chair**  
**Peck Hall 309**

**Borasky, Fontanesi-Seime, Lancaster, Lee, Rucker, Sanborn, Shaw-McEwen, Taylor**

The social work profession is dedicated to helping all people develop their strengths, to helping build a more economically and socially just society, and to helping the world become a better place in which to raise our families. Student training is offered through class work and special student work experiences to demonstrate how to relate effectively to all types of people and to appreciate how emotional, social, economic, political, and spiritual forces influence the behavior of those we are helping.

The Social Work Department has a number of scholarships for majors and information about them can be obtained from the department.

Some social work courses are open to non-majors.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

## Major in Social Work

The major in Social Work leads to a Bachelor of Social Work (B.S.W.) degree which is accredited by the Council on Social Work Education. The program's primary objective is to prepare the student for beginning professional practice in social work. It also provides a foundation for students planning to pursue graduate study in social work.

Students who choose to pursue a major in Social Work must take a minimum of 60 hours including S W 2570, 2630, 3000, 3110, 3120, 3160, 3161, 3200, 4480, 4580, 4590, 4650, 4680, and 4690; and one of the following: S W 3050, 3100, 3170, 3250, 4150, 4200, 4430, 4440, 4620, 4640, 4720. Requirements also include SOC 1010 and PSY 1410. The student must earn a C or better in all courses in the major in order to graduate.

## Minor Required of Social Work Majors

Social Work majors are required to have a minor of 18 hours. They may select any minor; however, it is suggested that they discuss with their advisors the advantages of certain minors.

## Admission to the Social Work Program

All Social Work majors must be formally admitted to the Social Work Program in order to be admitted into the field work courses and to obtain a Bachelor of Social Work degree. Students who are not yet formally admitted will be identified as pre-social work majors.

1. Requirements for admission to the Social Work Program:
  - a. completion of at least 60 semester hours toward a degree including at least 41 hours of General Education requirements;
  - b. completion of S W 2570, Introduction to Social Work, and 3 additional hours in social work courses with a grade of C or better;
  - c. an overall GPA of 2.00 for degree credit courses;
  - d. completion of at least 40 hours of volunteer work in a social agency, hospital, or social service organization. A reference form will be utilized as documentation of performance. Full or part-time social work employment may be considered in lieu of volunteer work;
  - e. possession of personal qualities consistent with social work values and ethics and the ability to relate to others with warmth and emotional stability.
2. Application procedure. Student must complete an application packet which consists of
  - a. application for Social Work major form;
  - b. three reference forms, at least one of which is from an MTSU social work professor;
  - c. personal essay on why a social work career has been chosen;
  - d. current official University transcript.
3. Criteria for acceptance into the Social Work Program:
  - a. submission of completed application packet by deadline date of the appropriate semester;
  - b. judgment of satisfactory quality of essay and suitability for professional social work by Social Work Faculty Admissions Committee;
  - c. satisfactory performance of required number of volunteer hours based on reference form;
  - d. a majority of "above average" and "outstanding" ratings on reference forms.

In addition, acceptance into the Social Work Program will be based upon the Social Work Faculty Admissions Committee's assessment of the student's potential for graduating with a B.S.W. degree and the student's interest and commitment to the pursuit of a career in the field of social services. Before any student is denied, the entire faculty must vote on the recommendation of the admissions committee.

### Recommended Curriculum

#### FRESHMAN

ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
COMM 2200 (Comm)	3	HUM 2610 (Hum/FA)	3
BIOL 1030 (Nat Sci)	4	Humanities and/or Fine Arts	
Natural Sciences	4	(2 prefixes)	6
MATH 1010 (Math)	3	HIST 2010, 2020, or 2030	6
SOC 1010 (Soc/Beh Sci)	3	S W 2630, 3000, 3160	9
PSY 1410 (Soc/Beh Sci)	3	Elective or minor	6
S W 2570	3		<b>30</b>
Elective or minor	1		
	<b>30</b>		

#### JUNIOR

S W 3110, 3120, 3161,		S W 4580, 4590, 4650,	
3200, 4480	15	4680, 4690	24
Social Work elective	3	Elective or minor	6
Electives or minor	12		<b>30</b>
	<b>30</b>		

#### SOPHOMORE

#### SENIOR

## Minor in Social Welfare

The Social Welfare minor requires 18 semester hours. The student may select either the policy option or the theory option.

Requirements for the policy option are S W 2570, 3000; SOC 2010; 9 additional hours from social work elective courses. (This option is appropriate for majors in political science, sociology, management, and mass communication.)

Requirements for the theory option are S W 2570, 2630, 3150, 3160, and 6 additional hours of social work elective courses. (This option is appropriate for majors in psychology, criminal justice administration, education, and human sciences.)

## Certification/Endorsement in School Social Work

A school social worker's job is to assess the causes of academic and behavioral problems of children and develop a plan to address those concerns. The primary functions of the school social worker are working with children and families in crisis and assisting families of children with special needs.

To receive a certification in School Social Work from Middle Tennessee State University, the student must take the following courses:

FOED	2110	Educational Psychology
SPED	3010	Survey of the Exceptional Child
CDFS	4350	Parenting
S W	3250	School Social Work

Students must also complete two field placements in school settings. Upon completion of these requirements, students should see Dr. Borasky for authorization to apply for licensure. The Teacher Licensing Office in the College of Education and Behavioral Science handles the paperwork for application for licensure.

## Interdisciplinary Minors

Interdisciplinary minors are open to all students in the University. The Department of Social Work coordinates the interdisciplinary minor in Health Care Services. See Interdisciplinary Minors beginning on page 76.

## Courses in Social Work [S W]

**2570 Introduction to Social Work.** Three credits. The methods, history, philosophy, and present organization of the social work profession.

**2630 Interviewing Skills for Social Work Practice.** Three credits. An introduction to principles and processes of social work practice including interviewing and developing relationships.

**3000 Social Policy.** Three credits. Prerequisite: S W 2570. Emphasis on recurring themes in social welfare policy development processes, historical turning points; societal ethics; causal relationship—social problems, social change, and social welfare policy analytical frameworks for assessing social welfare policy and programs.

**3050 Women and Poverty.** Three credits. (Same as WMST 3050.) Prerequisite: WMST 2100 or S W 2570. Predominant theories, policies, and programs dealing with poverty among women. Explores the effects of poverty on women in addition to a general knowledge of poverty; ageism, sexism, and racism in relation to poverty; historical treatment of women and views of poverty.



- 3100 International Social Work.** Three credits. International dimensions of social work. Explores the impact of globalization on social work problems. Includes status of women, aging populations, family breakdown, drug addiction, child abuse and neglect, poverty, and emerging problems such as civil strife, ethnic cleansing, resettlement, and AIDS.
- 3110 Research Methods for Social Work Practice.** Three credits. Prerequisites: SOC 1010 and S W 2570. Research processes; includes information about values for research, knowledge of methods, and opportunities for skill development.
- 3120 Data Analysis for Social Work Practice.** Three credits. Prerequisite: S W 3110. Data analysis and interpretation. Opportunities for skill development in the use of statistical procedures and knowledge of the meaning of results of such procedures. Instruction in computer use for data entry and data analysis, including the development of programming skills using the SPSS-X software package on the University computer system.
- 3150 Life Cycle and the Social Environment.** Three credits. Prerequisites: PSY 1410, SOC 1010, and 2010 or 3 hours of biology. An overview of the entire life cycle from biological, sociological, and psychological perspectives with social work applications.
- 3160 Human Behavior and the Social Environment I: Individuals and Families.** Three credits. Prerequisites: PSY 1410, SOC 1010, and BIOL 1030 plus lab. Major theories of human development across the life span and life course; useful for entry-level social work practice. Ecological relationship of diverse individuals and families with other systems in the social environment described with focus on biological, psychological, and social context and content.
- 3161 Human Behavior and the Social Environment II: Groups, Organizations, and Communities.** Three credits. Prerequisites: S W 3160. Builds on concepts learned in S W 3160. Presents theories on and about the development, structure, and function of small groups, organizations, and communities and how they interrelate eco-systemically with individuals and families.
- 3170 Family Caregiving Across the Life Span.** Three credits. Prerequisite: S W 2570, PSY 1410, SOC 1010, or HLTH 2600. Caregivers—gender roles, cost of caregiving, managing stress, respite care, finding resources, financial and legal matters, establishing support groups, differential caregiving tips for various illnesses and disabilities from infancy to old age, emerging trends, and long distance caregiving.
- 3200 Cultural Diversity: Competency for Practice.** Three credits. (Same as AAS 3200.) Prerequisites: S W 2570 and 2630. An examination of culturally appropriate practice issues that are essential considerations for effective service delivery, including African-American families and ethnic subcultures predominant in the U.S.
- 3250 School Social Work.** Three credits. Prerequisites: S W 2570 and 2630. Introduces social work students to practice in school settings. Examines various roles of social workers in school systems and the specifics of practicing with students from 3-21 years of age in individual, group, and organizational level interventions.
- 4150 Topics in Social Work.** Three credits. Selected topics important in current social work practice, but too specialized to be taught as regularly scheduled courses.
- 4200 Creativity and Personal Growth.** Three credits. Prerequisites: Junior standing, including 18 hours in the arts, social work, and/or social or behavior sciences, or permission of instructor. Introduces the creative process and the use of that process in the development of self-awareness and empathetic relationships with others. Assignments include the creation of individual and group projects and the facilitation of a creative project in a community agency or school.
- 4430 Social Work with the Terminally Ill.** Three credits. Factors and principles involved with the terminally ill which should stimulate students to learn and think about what he/she values and anticipates experiencing in the area of medical social work.
- 4440 Social Work with the Disabled Individual.** Three credits. The effects of disability on the individual, the family, and society. An examination of a variety of intervention strategies from a social work perspective.
- 4480 Social Work with Groups.** Three credits. Prerequisites: S W 2570, 2630; corequisite: S W 3200. Group process and group techniques as they apply to social work practice, including both treatment and task groups.
- 4580 Social Work: Practice I.** Three credits. Corequisite: S W 4590; prerequisites: S W 2570, 2630, 3000, 3160, 3161, and senior standing. Theories and related techniques for beginning-level social work. (Must be admitted to Social Work program.)
- 4590 Field Instruction I.** Six credits. Corequisite: S W 4580; prerequisites: S W 2570, 2630, 3000, 3110, 3160, 3161, 3200; completion of all General Education requirements; and senior standing. Student is assigned to a social agency under the joint supervision of agency and instructor with concurrent seminar. Application must be made the preceding semester. (Must be admitted to Social Work program.)
- 4620 Child Welfare Services.** Three credits. The contemporary child welfare system and services designed to strengthen families. Historical trends, policy issues, and child advocacy.
- 4640 Health: Organizations, Policy, and Ethics.** Three credits. (Same as SOC 4640.) A resource allocation assessment of U.S. health care systems. Applied ethics topics (i.e., justice, virtue, and informed consent) included.
- 4650 Social Work: Practice II.** Three credits. Corequisite: S W 4680; prerequisites: S W 3110, 3120, 4580, 4590, senior standing, and all other major requirements. Theories and related techniques for advanced-level social work practice. (Must be admitted to Social Work program.)
- 4680 Field Instruction II.** Nine credits. Corequisite: S W 4650; prerequisites: S W 4580, 4590, senior standing, and all other major requirements. Second field placement for social work majors. Application must be made the preceding semester. (Must be admitted to Social Work program.) Pass/Fail.
- 4690 Integrative Seminar in Social Work.** Three credits. Prerequisites: S W 4650 and 4680 or concurrent enrollment. An opportunity for the student, with instructor and peers, to explore the knowledge, values, and skills gained from academic and field experiences and to synthesize and integrate theory and practice. (Must be admitted to Social Work program.)
- 4720 Crisis Intervention.** Three credits. The basis of crisis theory applied to intervention services for suicide, rape, natural disasters, and other crises.
- 4800 Special Projects.** One to six credits. Field experiences or reading courses through which special interests or needs of the student may be pursued under individual supervision. Arrangements must be made with an instructor prior to registration.

# Department of Sociology and Anthropology

Edward Kick, Chair  
Peck Hall 316

Aday, Altman, Amey, Austin, Breault, Canak, Carroll, Carter, Eller, Fadzillah, Johnson, MacLean, Mertig, Pace, Smith, Wallace

The curricula of the Department of Sociology and Anthropology are designed to serve the General Education needs of all students, to offer training for careers in applied fields, and to prepare students for graduate study in sociology, anthropology, and the applied social sciences.

Occupational fields include archaeology, corrections, social research, teaching, personnel, industrial relations, journalism, applied sociology or anthropology, religion, gerontology, foreign service, and social and cultural research. Every attempt is made to assist the student in working toward specific career goals.

The department offers programs leading to a Bachelor of Science degree with majors in Anthropology or Sociology and a Bachelor of Arts in Sociology with concentrations in Sociology or Anthropology. Minors in Sociology, Anthropology, Criminology, and Family Studies are available. Interdisciplinary minors in Archaeology, Asian Studies, and Native American Studies are coordinated by the department.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

## Major in Sociology

To meet the requirements for the B.A. or B.S. degree, a student majoring in Sociology must take a minimum of 36 semester hours in sociology including SOC 1010, 3040, 3050, 3060, 3950, and 4980. Students working toward the B.S. degree are required to complete two minors, one of which may be within the department. The faculty advisor should be consulted for the specific requirements of each emphasis program. Persons pursuing the B.A. degree should consult page 56 of this catalog for the requirements.

In order to graduate, all students must complete, with the approval of their advisors, the General Education requirements.

## Recommended Curriculum

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
SOC 1010* (Soc/Beh Sci)	3	HUM 2610 (Hum/FA)	3
Mathematics	3	Humanities and/or Fine Arts	
Natural Sciences (2 prefixes)	8	(2 prefixes)	6
SOC electives	6	HIST 2010, 2020, or 2030	6
Elective	3	COMM 2200 (Comm)	3
		Social/Behavioral Sciences	3
		SOC 3040*, 3050*	6
		SOC elective	3
			<b>30</b>
JUNIOR		SENIOR	
SOC 3060*, 3950*	6	SOC 4980*	3
SOC electives	6	SOC elective	3
Minor	18-21	Minor courses	18-21
	<b>30-33</b>	Electives	4-7
			<b>28-33</b>

\*Required courses

## Minor in Sociology

The minor in Sociology requires 18 semester hours of sociology including SOC 1010. Students choosing a minor are encouraged to select a sequence of courses that enhances a career path. A student majoring in the department can select one minor from within the department.

## Minor in Criminology

The Criminology minor provides students with an understanding of the social and psychological aspects of crime, including an in-depth examination of the typologies and classifications of crime; national and international crime patterns; various classical and contemporary theories of crime; causal and associated factors such as gender, race, class, and age; an understanding of victims; and preventative strategies. The minor requires 18 semester hours, including 6 hours of required courses and 12 hours of electives.

### Required Courses:

SOC 4300	Criminology
SOC 4540	Juvenile Delinquency

### General Electives:

ANTH 3650	Forensic Anthropology
ANTH 3710	Topics in Anthropology (with approval of advisor)
CJA 3700	Women, Crime, and Justice Administration
CJA 3900	Organized and White Collar Crime
PSY 4120	Psychology of Criminal Behavior
PSY 4220	Correctional Psychology
SOC 3210	Drugs and Alcohol
SOC 3250	Deviant Behavior
SOC 4140	Violence in the Family
SOC 4150	Topics in Sociology (with prior approval of advisor)
SOC 4160	Sociology of Gangs
SOC 4900	Sociology Internship (highly recommended for applied direction)

## Minor in Family Studies

The minor in Family Studies requires 18 semester hours including SOC 3150 and 4050. The student must select the remaining 12 hours from the following electives: SOC 2500, 3400, 4140, and 4500; S W 4620; and CDFS 4390.

## Major in Anthropology

Two options are available for students interested in pursuing studies in Anthropology: 1) a Bachelor of Science in Anthropology; or 2) a Bachelor of Arts in Sociology with a concentration in Anthropology.

1. The major in Anthropology leading to a B.S. requires a minimum of 36 semester hours in the department. Required hours include ANTH 3010, 3210, 3310, 3410, and 4890 plus 21 hours of additional anthropology courses to be chosen in consultation with the advisor.
2. The B.A. in Sociology with a concentration in Anthropology is for students with interests in anthropology pursuing a second major where only the Bachelor of Arts degree is available. Required are 36 semester hours of anthropology including ANTH 3010, 3210, 3310, 3410, and 4890 plus 21 hours of additional anthropology courses to be chosen in consultation with the advisor.

### Recommended Curriculum

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
ANTH 2010 (Soc/Beh Sci)	3	HUM 2610 (Hum/FA)	3
Mathematics	3	Humanities and/or Fine Arts	
Natural Sciences (2 prefixes)	8	(2 prefixes)	6
ANTH electives	6	HIST 2010, 2020, or 2030	6
Elective	3	COMM 2200 (Comm)	3
	<b>29</b>	ANTH 3010*, 3210*	6
		Social/Behavioral Sciences	3
		ANTH elective	3
			<b>30</b>
JUNIOR		SENIOR	
ANTH 3310*, 3410*	6	ANTH 4890*	3
ANTH electives	6	ANTH elective	3
Minor	18-21	Minor	18-21
	<b>30-33</b>	Electives	7
			<b>31-33</b>

\*Required courses

## Minor in Anthropology

The minor in Anthropology requires 18 semester hours of anthropology including ANTH 2010 and 2210.

## Interdisciplinary Minors

Interdisciplinary minors are open to all students in the University. The Department of Sociology and Anthropology coordinates the interdisciplinary minors in Archaeology, Asian Studies, and Native American Studies. See Interdisciplinary Minors beginning on page 76.

## Courses in Sociology [SOC]

**1010 Introductory Sociology.** Three credits. **Counts toward General Education Social/Behavioral Sciences requirement.** Covers the central concepts, theories, and methods of sociology. Focuses on social processes and institutions in modern societies. Assists students in understanding and applying this knowledge in their everyday lives.

**2010 Social Problems.** Three credits. A survey of issues defined as problems by society; examines programs and agencies that address them. Problems addressed include poverty, crime, environment, energy, health, etc.

**2105 Introduction to Latin American Studies.** Three credits. (Same as SPAN 2105, P S 2105, ART 2105, ANTH 2105, GEOG 2105.) A multidisciplinary, team-taught introduction to Latin America. Covers the cultures and societies of the region: pre-history, history, geography, politics, art, languages, and literatures. Required course for all Latin American Studies minors.

**2500 Marriage and Family.** Three credits. Social, cultural, and personal factors relating to mate selection, intimate relationships, and family life with an emphasis on families in the United States.

**2600 Introduction to Aging Studies.** Three credits. (Same as A S 2600.) Basic concepts, overview of the field, illustrations of problems, and applications for an aging America.

**2930, 2940, 3970, 3980 Cooperative Education.** Three credits each. Each course may be taken for one, two, or three credits after consultation with instructor. Courses must be taken in sequence.

**3040 Research Methods.** Three credits. (Same as ANTH 3040.) Issues and strategies used by sociologists in their scientific studies and in their applied work in society.

**3050 Data Analysis.** Three credits. (Same as ANTH 3050.) Analysis, interpretation, and reporting of social science data. Incorporates the use of a statistical package such as SPSS or SAS. Offers fundamental applied research skills for the job market.

**3060 Sociological Theory.** Three credits. Theoretical foundations of sociology with emphasis on the major theories in sociology and their development. Addresses diverse intellectual traditions in both classical and contemporary theory.

**3150 Life Cycle and the Social Environment.** Three credits. Prerequisites: PSY 1410 or SOC 1010 or 2010 or BIOL 1010. Overview of life course structure and processes examining physical, cognitive, social, and personality development including the rule of institutions.

**3210 Drugs and Alcohol.** Three credits. Prerequisite: SOC 1010, 2010, or permission of instructor. Sociological, historical, political-economic, and cultural dimensions of drugs and alcohol in society.

**3250 Deviant Behavior.** Three credits. A general survey and theoretical review of the definitions, causes, and consequences of deviance and social control. Analyzes drugs, panics, sex, media violence, and emotions in society.

**3320 Public Opinion and Propaganda.** Three credits. Nature of public opinion and its role in the political and social process; myths, symbols, and other instruments and techniques of propaganda in opinion formation.

**3400 Gender and Society.** Three credits. Prerequisite: SOC 1010 or 2010. A sociohistorical and cultural exploration of the socialization patterns, relationships, expectations, influences, organizational, institutional, and aging experiences of women and men in American society.

**3950 Social Organizations and Institutions.** Three credits. Prerequisite: SOC 1010 or 2010. Theory, analysis, and public policy applications for contemporary organizations (corporations and social agencies) and institutions (family, education, health, media.)

- 4010 Social Inequality.** Three credits. The origins, variations, and consequences of class, status, and power in society. Individual and group economic interests, social prestige, ideology, market and institutional inequality.
- 4020 Sociology of Aging.** Three credits. Demographic, social, and cultural aspects of aging with particular emphasis on the types of problems encountered by older persons in American society.
- 4030 Topics in Aging Studies.** Three credits. (Same as A S 4030.) An opportunity to integrate gerontological theory and research techniques with the practical problems of older persons.
- 4040 Health Care Delivery Issues.** Three credits. An assessment of critical issues with special emphasis on policies, procedures, and intervention strategies in long-term care settings.
- 4050 Sociology of Families.** Three credits. Analysis of the family as a social institution with an emphasis on contemporary trends and diversity.
- 4090 Health Care Management.** Three credits. Details of the technical aspects of health care management with an emphasis on long-term care settings.
- 4100 Sociology of Work.** Three credits. Comparative analysis of work structure and processes in organizational contexts, including study of management and employee organizations and legal environments regarding workplace relations.
- 4140 Violence in the Family.** Three credits. (Same as CDFS 4140.) The causes, dynamics, and consequences of violence in the family. Includes a discussion of violence toward children, spouses, dating partners, siblings, and elders. Emphasizes the social conditions that lead to these types of violence.
- 4150 Topics in Sociology.** Three credits each. An in-depth study of a special topic which is significant in current sociological literature.
- 4160 Sociology of Gangs.** Three credits. Prerequisite: SOC 1010. History of gangs in the United States, the factors that account for their formation and perpetuation, and current empirical data on gang composition, demographics, and culture. Policy strategies for prevention, law enforcement, and nonlegal intervention assessed.
- 4170 The Social Context of Southern Music.** Three credits. A socio-historical analysis of Southern music providing a framework for examining the relationship between culture and popular culture, the production of popular culture, and popular culture as a vehicle for examining social issues of the Southern region.
- 4200 African American Film, Theater, and Television Images.** Three credits. (Same as AA S 4200.) Prerequisite: SOC 1010 or PSY 1410. Survey of African-American film, theater, and television images in relation to social movements and social policy. Human behavior theory application and sociological paradigm application required.
- 4240 Race and Ethnic Relations.** Three credits. The dynamics of race and ethnic relations in the United States from a socio historic perspective.
- 4300 Criminology.** Three credits. Theories of the causes of criminal behavior and coverage of its development and incidence; punishment and methods of control and rehabilitation.
- 4360 Medical Sociology.** Three credits. Sociological analysis of health care delivery including problems, policies, and issues faced by recipients and providers of care. Focuses on the U.S., role theory, and demographics.
- 4500 Social Psychology.** Three credits. Individual behavior in social contexts and symbolic interaction in groups. Includes social influences on perception, conformity, attitudes, communication, group structure, leadership, and role behavior.
- 4510 Social Movements and Social Change.** Three credits. Study of the major sociological theories of revolutions, rebellions, civil wars, and protest movements of the past and present and their relationship to significant social changes.
- 4520 Population and Society.** Three credits. Prerequisites: SOC 1010 and 2010 or permission of instructor. Examination of world and U.S. population trends and the impact of social forces on such demographic variables as births, deaths, migration, age, sex, education, and marital status and how these impact social conditions.
- 4540 Juvenile Delinquency.** Three credits. Social factors related to delinquency including family, peer-group, school, and community. Includes juvenile justice system and its agents.
- 4550 Sociology of Religion.** Three credits. Religion as social process and institution. An ideological, structural, and functional analysis. Specific U.S. religions examined in detail.
- 4560 Organizational Structures and Processes.** Three credits. Analysis of structure and processes of change, organizational environments, modes of power, ideologies, forms of control and resistance including alternatives to bureaucracy.
- 4640 Health: Organizations, Policy, and Ethics.** Three credits. (Same as S W 4640.)
- 4660 Urban and Community Studies.** Three credits. Prerequisite: SOC 1010. Focuses on the concept of community as a core idea in the historical development of sociology, concentrating on theories and historical trends of urbanization and current urban problems and policies.
- 4790 Sport and Society.** Three credits. (Same as REC 4790.) Behavioral approach to sport and leisure from the related perspectives of sociology and anthropology.
- 4800 Special Projects.** One to six credits. (Same as A S 4800.) Field experiences or reading courses through which special interests or needs of the student may be pursued under individual supervision. No more than three hours may be used in the major. Arrangements must be made with an instructor prior to registration.
- 4900 Sociology Internship.** Three credits to six credits. Supervised independent study in which student is placed in an organization on a contractual basis as a means of applying the principles of his/her training in preparation for eventual employment. Arrangements should be made with the intern supervisor prior to registration.
- 4980 Senior Seminar in Sociology.** Three credits. Prerequisites: At least 18 hours of sociology, including SOC 1010, 3040, 3050, 3060, and senior standing. Integrates coursework in the major through coverage of theory and method, analysis of critical issues, and applications to modern society.



## Courses in Anthropology [ANTH]

- 2010 Cultural Anthropology.** Three credits. **Counts toward General Education Social/Behavioral Sciences requirement.** A comparative examination of the cultural organization of human behavior in societies around the world. Practical applications and the importance of intercultural understanding stressed.
- 2105 Introduction to Latin American Studies.** Three credits. (Same as SPAN 2105, P S 2105, SOC 2105, ART 2105, GEOG 2105.) A multidisciplinary, team-taught introduction to Latin America. Covers the cultures and societies of the region: pre-history, history, geography, politics, art, languages, and literatures. Required course for all Latin American Studies minors.
- 2210 Introduction to World Prehistory.** Three credits. Cultural change over the past four million years as interpreted through archaeology. The development of hunting and gathering through the origins of agriculture and the appearance of the world's first civilizations. Counts toward General Education Humanities/Fine Arts requirement.
- 2230 Tennessee Archaeology.** Three credits. Archaeology of prehistoric and historic Tennessee. Based on archaeological research; presents an overview of human occupation in Tennessee with emphasis on local sites.
- 2240 Sunken Continents, Lost Tribes, and Ancient Astronauts.** Three credits. Critical examination of popular theories of prehistory including Atlantis, Bigfoot, extraterrestrial visitors, and others with a focus on the nature of the scientific method.
- 2740 Magic, Witchcraft, and Religion.** Three credits. Symbolic and ritual expression in indigenous and urban societies from an anthropological perspective including interpretations of myth, religious healing, cults, taboo, witchcraft, sorcery, and religious specialists and non-specialists.
- 3010 Ethnology.** Three credits. Examines different approaches in anthropology to the study of contemporary world cultures. For upper-division anthropology majors and minors. Addresses various theoretical approaches in the study of culture, use of ethnographic methods, ethical role of the anthropologist in research, and current issues in ethnology. Readings will focus on ethnographies from around the world.
- 3040 Research Methods.** Three credits. (Same as SOC 3040.) Issues and strategies in the scientific study of social phenomena.
- 3050 Data Analysis.** Three credits. (Same as SOC 3050.) Data analysis and interpretation.
- 3210 Archaeology.** Three credits. Introduces methods used to study the nature and development of prehistoric societies. Approaches to survey, excavation, analysis, and interpretation explored through lectures, case studies, and problem assignments.
- 3240 Ancient Civilizations.** Three credits. Prerequisite: 3 hours of anthropology. Comparative study of archaeological evidence on the origins, development, and collapse of the early civilizations of the world. The transformation of human societies from the first settled villages to urban states in Mesopotamia, Egypt, India, Central Asia, Mesoamerica, and Peru.
- 3310 Human Origins.** Three credits. The origin and development of human life, its primate roots, ecology, and diversity.
- 3410 Linguistic Anthropology.** Three credits. Language in its anthropological contexts with a focus on language as one element of culture, including how a language fits into the cultural system, how language is distinguished from other components of culture, how culture and language interrelate, and what techniques and methods can be used to infer nonlinguistic facts from linguistic material.
- 3510 Peoples and Cultures of Asia.** Three credits. The diverse peoples and cultures of Asia and the Pacific Rim. History, sociocultural system, and contemporary issues and impacts resulting from globalization from an anthropological perspective.
- 3511 Peoples and Cultures of Oceania.** Three credits. The diverse peoples and cultures of Oceania. History, sociocultural system, and contemporary issues and impacts resulting from globalization from an anthropological perspective.
- 3512 Peoples and Cultures of South America.** Three credits. The diverse peoples and cultures of South America. History, sociocultural system, and contemporary issues and impacts resulting from globalization from an anthropological perspective.
- 3513 Peoples and Cultures of Mexico and Central America.** Three credits. The diverse peoples and cultures of Mexico and Central America. History, sociocultural system, and contemporary issues and impacts resulting from globalization from an anthropological perspective.
- 3514 Peoples and Cultures of Africa.** Three credits. (Same as AAS 3514.) The diverse peoples and cultures of Africa. History, sociocultural system, and contemporary issues and impacts resulting from globalization from an anthropological perspective.
- 3515 Peoples and Cultures of Native North America.** Three credits. The diverse peoples and cultures of Native North America (often called American Indians or Native Americans). History, sociocultural system, and contemporary issues and impacts resulting from globalization from an anthropological perspective.
- 3516 Peoples and Cultures of Europe.** Three credits. The diverse peoples and cultures of Europe. History, sociocultural system, and contemporary issues and impacts resulting from globalization from an anthropological perspective.
- 3520 North American Prehistoric Archaeology.** Three credits. A comprehensive presentation including archaeological findings concerning the initial settlement of North America some 14,000 years ago; the origins, adaptations, and development of major North American cultural traditions through European contact and colonization; and the major theoretical contributions of North American archaeology.
- 3521 Mesoamerican Archaeology.** Three credits. Prerequisite: 3 hours anthropology. Archaeology of Mesoamerica to include the findings of archaeology of the initial settlement of Mesoamerica; the origins, adaptations, and development of major prehistoric Mesoamerican cultural traditions such as the Olmec, Maya, and Aztec; and the major theoretical contributions of Mesoamerican archaeology.
- 3610 Archaeological Methods.** Three credits. Prerequisite: ANTH 3210 or permission of instructor. Methods of identifying, excavating, recording, analyzing, reporting, and interpreting archaeological sites. Focus on technical aspects of archaeological research, including a substantial component of classroom simulations of the practical applications of these methodologies.

- 3640 Visual Anthropology.** Three credits. Prerequisites: 3 hours anthropology or permission of instructor. Photography and film as tools and products of ethnography. Researching, analyzing, and presenting behavioral and cultural ideas through visual means. Cultural and political biases presented through photography and film.
- 3650 Forensic Anthropology.** Three credits. Prerequisite: Junior standing. An intensive overview of forensic anthropology—an applied field of physical anthropology that seeks to recover, identify, and evaluate human skeletal remains within a medicolegal context.
- 3710 Topics in Anthropology.** Three or six credits. An in-depth study of a special topic which is significant in current anthropological literature.
- 3720 Cultural Ecology.** Three credits. (Same as GEOG 3720.) Prerequisites: 3 hours anthropology or geography. Comparative study of ecological systems utilized by tribal, peasant, and industrialized peoples of the world. Special attention on theoretical approaches examining the interface of the environment and culture, the evolution of modes of subsistence, and contemporary development and indigenous people.
- 3730 Medical Anthropology.** Three credits. A cross-cultural survey of health-related beliefs and behavior. Includes etiologies, treatments, patients, and practitioners as they interact in an environmental, biological, and cultural context.
- 3750 Race, Class, and Gender.** Three credits. Prerequisites: 3 hours anthropology or women's studies; ANTH 2010 recommended. An anthropological examination of the biological and cultural aspects of human identity as expressed through the concepts of race, ethnicity, gender, and sexuality. Focus on ways in which regional, ethnic, and gender identities are celebrated, contested, and regulated cross-culturally.
- 4120 Practicing Anthropology.** Three credits. Culture change theory and the practical dimensions of anthropology in research and planned change implementation.
- 4620 Environmental Archaeology.** Three credits. Prerequisite: 3 hours from the following: ANTH 2210, 3210, 3310, 3520, or 4950. The interdisciplinary reconstruction of prehistoric environments using archaeological methods with a focus on geoarchaeology, zooarchaeology, and archaeobotany. How past environments affect human adaptation and how humans impact the environment.
- 4730 Economic Anthropology.** Three credits. The ways people produce, distribute, and consume goods, how such systems are organized, how they operate, how they develop, and how they relate to other systems, especially the family, political, and ideological. Draws on case material for household economies, the transition to capitalist economies, and the world economic system.
- 4740 Law and Politics in Traditional Societies.** Three credits. A cross-cultural perspective on concepts of politics and law in non-Western societies and the application of anthropological concepts in the study of legal and political systems in the contemporary global community.
- 4750 Anthropology of Religion.** Three credits. Prerequisite: ANTH 2010 or 2740 or 3010 or permission of instructor. Cross-cultural exploration of religion, including beliefs in the supernatural, the use of ritual in secular and sacred context, and the roles of ceremonial practitioners. Focus on how people interpret and control their worldviews through religion and ritual.

- 4890 Seminar in Anthropological Theory.** Three credits. Prerequisites: 18 hours of anthropology, including ANTH 3010, 3210, 3310, and 3410. The major anthropological theories within their historical, cultural, and political context.
- 4910 Special Projects.** One to six credits. Field experience or reading courses through which special interests or needs of the student may be pursued under individual supervision. No more than three hours may be used in the major. Arrangements must be made with an instructor prior to registration.
- 4940 Ethnographic Field School.** Three to six credits. Field experience in a cross-cultural setting. Training in ethnographic research techniques.
- 4950 Archaeological Field School.** Three to six credits. Course may be taken for three to six credits after consultation with instructor. The basic techniques of archaeology and paleoecology through participation in actual excavation and laboratory work.
- 4960 Anthropology Internship.** One to six credits. Supervised independent study in which student is placed in an organization on a contractual basis as a means of applying the principles of his/her training in preparation for eventual employment. Arrangements must be made with the intern supervisor prior to registration. No more than six hours may be used in the major.

## Graduate Study

The department offers the Master of Arts degree in Sociology. Requirements for this degree and a list of the courses offered for graduate credit are published in the Graduate Catalog.



# Department of Speech and Theatre

**Russell Church, Chair**  
**Dale McGilliard, Associate Chair**  
**Boutwell Dramatic Arts Building 205**

Anderson, Chadwick, Clark, Donnell, Edwards, Fischer, Garrard, Gibson, Halladay, Hansen, Kim, Kissinger, Mauldin, McCormick, Moore, Richards, Seward, Shaw, Simerly, E. Smith, S. Smith, Sniderman, Walker, Webb

Courses in the Department of Speech and Theatre are designed to meet the General Education needs of all students, to develop oral communication skills, to provide varied experiences in creativity, to heighten the appreciation of theatre as an art form, and to help solve communication problems among individuals and in organizations.

The department offers a major in Speech and Theatre with concentrations in Communication Studies, Theatre, and Communication Disorders. Speech and Theatre is also the home department for an interdisciplinary major in Organizational Communication. Departmental programs lead to either a Bachelor of Arts or Bachelor of Science degree. Minors in Speech and Theatre, Communication Disorders, Entertainment Arts Design, and Dance are available. The department also participates in four interdisciplinary minors—Aging Studies, Health Care Services, Linguistic Studies, and Entertainment Technology. In addition, the department offers four co-curricular programs—MTSU Debate, University Dance, University Theatre, and MTSU Speech-Language and Hearing Clinic.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

## Major in Speech and Theatre

The major in Speech and Theatre is designed to provide students with maximum opportunities to develop theoretical and practical appreciation of all phases of oral communication. For students following the Communication Studies or Theatre concentration, preparation is offered for the pursuit of graduate study in a number of fields or for entry into professions including secondary school teaching, professional theatre, and communication work in business, industry, and government. The Communication Disorders concentration offers preparation for careers dealing with evaluation, treatment, and prevention of human communication disorders.

Students who complete the Communication Disorders concentration often pursue graduate study in speech-language pathology, audiology, or related health professions.

Transfer students may apply toward a major or minor in Speech and Theatre up to 12 semester hours of freshman and sophomore-level speech and theatre courses (1000- and 2000-level) taken at other accredited institutions, provided the grade in each course is a C or better and provided each course is either equivalent to an MTSU course or is an acceptable elective in the speech and theatre disciplines. Upper-division speech and theatre courses taken at accredited institutions may be accepted for credit toward a major or minor in Speech and Theatre, provided the grade in each course is a C or better and provided each course is either equivalent to an MTSU course or is an acceptable elective in the speech and theatre disciplines.

All students pursuing a major within this department must complete the General Education requirements. The following is a suggested pattern of study for the first two years; **however, consultation with the assigned advisor is necessary before each registration.**

### Recommended Curriculum

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
Mathematics	3	HUM 2610 (Hum/FA)	3
COMM 2200 (Comm)	3	HIST 2010, 2020, or 2030	6
Humanities and/or Fine Arts		Social/Behavioral Sciences	
(2 prefixes)	6	(2 prefixes)	6
Major/Minor courses as		Natural Sciences (2 prefixes)	8
advised	12	Major/Minor courses as	
	<b>30</b>	advised	7
			<b>30</b>

All students majoring in Speech and Theatre must complete COMM 2200 (Fundamentals of Communication) and earn a grade of C or better for the course to count as a prerequisite or to count towards graduation.

Students majoring in Speech and Theatre must receive a grade of C (2.00) or better in all courses in their concentration for the course to count as a prerequisite or to count toward graduation.

### Concentration: Communication Studies

Students pursuing the Communication Studies concentration must complete COMM 2300, 3210, 3220, 3300, 3560, 4320, 4650, 4700, 4800 and ORCO 3240 plus 15 hours from the following: COMM 2150, 3020, 3225, 3230, 3325, 3340, 3620, 3630, 4040, 4260, 4280, 4620, 4630, 4800, 4900; CDIS 3250; ORCO 3250, 3500, 4250.

Students pursuing the Communication Studies concentration must also select at least one appropriate minor approved by the student's academic advisor.



### Concentration: Theatre

Students pursuing the concentration in Theatre must complete COMM 2200 plus THEA 1030 and the following required Theatre courses: THEA 2110, 2500, 3100, 3200, 3600, 3700, 4800, 4810, 4990 plus 2 hours of THEA 3900 and 2 hours of THEA 4900. Students must also complete 9 hours from the following guided electives: THEA 3400, 3600, 3800, 3810, and 4820.

### Concentration: Communication Disorders

Students pursuing the concentration in Communication Disorders must complete COMM 2200 plus CDIS 3050, 3150, 3200, 3250 for majors, 3300, 3350, 3400, 4500, 4850, 4900, and either CDIS 3450 or 4800. Students must also complete a minimum of 9 hours of supervised clinical practicum through enrollment in CDIS 4550-4600 and 4700-4730 and a minimum of 12 hours of guided electives. Prior to enrollment in clinical practicum, students must meet academic and professional eligibility criteria established by the faculty and published in the clinic manual. Academic criteria include a minimum overall GPA of 2.50 in 60 credit hours or 3.00 in the last 30 credit hours, a minimal GPA of 2.70 in the major, a minimal grade of C in each prerequisite course, mastery of phonetic features, and competence in speaking and writing.

### Major in Organizational Communication

The interdisciplinary major in Organizational Communication offers students preparation for careers in employee communication, special events and fundraising, and corporate and nonprofit communication.

Students pursuing the 31-hour interdisciplinary major in Organizational Communication must complete COMM 2300, 3300, 3340, 4900; COMM 3220 or PSY 4380; ORCO 3240, 3250, 3500, 3750, 4500; ORCO 3650 or SOC 4150. Students must also take a statistics course (such as PSY 3020 or SOC 3050 or Q M 2610 or MATH 1530) and SOC 3950 or 4560, and must choose 18 hours from a cognate list (see advisor). Students will have approximately 24 hours in electives and may also choose a minor to fulfill some of these hours; however, a minor is not required.

Students majoring in Organizational Communication must complete the General Education requirements. The following is a suggested pattern of study for the first two years.

**Consult with an advisor before each registration.**

#### Recommended Curriculum

##### FRESHMAN

ENGL 1010, 1020 (Comm)	6
COMM 2200 (Comm)	3
COMM 2300	3
Humanities and/or Fine Arts (2 prefixes)	6
Mathematics	3
Natural Sciences	4
Electives	6
<b>31</b>	

##### SOPHOMORE

ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
ORCO 3240	3
ORCO 3250	3
Social/Behavioral Sciences (2 prefixes)	6
HIST 2010, 2020, or 2030	6
Natural Sciences	4
Elective	3
<b>28</b>	

##### JUNIOR

COMM 3220 or PSY 4380	3
ORCO 3500 and 3750	6
COMM 3300	3
COMM 4900	1
Statistics	3
Cognate	9
Electives	6

##### SENIOR

SOC 3950 or 4560	3
COMM 3340	3
ORCO 3650 or SOC 4150	3
ORCO 4500	3
Cognate	9
Electives	9
<b>30</b>	

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### Minor in Speech and Theatre

The minor in Speech and Theatre consists of 18 semester hours and includes COMM 2200. A student may concentrate coursework for the minor in the Communication Studies or Theatre concentration with the specific course requirements based primarily upon the individual student's academic interests and needs. Those students who wish to minor in Speech and Theatre should consult the department chair.

### Minor in Communication Disorders

The minor in Communication Disorders consists of 18 semester hours of courses selected from the listing for the Communication Disorders concentration.

### Minor in Entertainment Arts Design

This minor is designed for students majoring in Human Sciences, Electronic Media Communication, Recording Industry, Speech and Theatre, and others who plan a career in theatrical or entertainment design. The minor consists of 18 hours of courses selected from the approved list (below) after consulting with the minor advisor. Courses taken to meet major field of study requirements or other minor requirements may not be counted toward this minor.

THEA 2110	Stagecraft
THEA 3000	Sound Design for Arts and Entertainment
THEA 3100	Make-up Techniques for Performers
THEA 3200	Introduction to Costume for Arts and Entertainment
THEA 3300	Scene Design
THEA 3400	Introduction to Lighting for Arts and Entertainment
THEA 4000	Advanced Sound Design for Arts and Entertainment
THEA 4100	Special Effects Make-up
THEA 4200	Costume Technology and Production
THEA 4210	Advanced Costume Technology and Production
THEA 4220	Costume Design for Arts and Entertainment
THEA 4230	Advanced Costume Design for Arts and Entertainment
THEA 4290	Problems in Theatre
THEA 4300	Advanced Scenic Design
THEA 4390	Topics in Scenography
THEA 4400	Intermediate Lighting for Arts and Entertainment

### Minor in Dance

The Speech and Theatre Department offers a minor in Dance. The minor requires 18 semester hours to include DANC 1000, 3100 and 4800 and THEA 4990. The remaining requirement must be completed from the following courses: DANC 1010, 1020, 1030, 1040, 2010, 2020, 2030, 2040, 3010, 3020, 3030, 3040, 4000-4030, 4040, 4100, 4110, 4120, and 4130.



## Teacher Licensure

The Speech and Theatre Department offers one teacher licensure program: Theatre (grades K-12).

### Teacher Licensure in Theatre K-12

Students will complete a major in Speech and Theatre by following a specified program in the Theatre concentration.

There is also a Secondary Education minor requirement. Students must contact their Secondary Education minor advisors for approval of appropriate courses. (For specific procedures and additional requirements for teacher licensure, see page 188.)

**NOTE:** The Secondary Education minor has been revised. Please see page 193 and contact the Educational Leadership Department for information.

## Co-Curricular Requirements

The Speech and Theatre Department supports, directs, and staffs four co-curricular programs to supplement classroom theory and to benefit the University and surrounding communities. Students receive practical training through participation in co-curricular programs:

**MTSU Debate**—The debate program provides active intercollegiate competitive opportunities. The program is open to all undergraduate students in good academic standing.

**University Dance**—The MTSU Dance minor is housed in the Department of Speech and Theatre. Each year the Department produces an “Evening of Dance” and one or more studio showcases. All students are invited to audition for the “Evening of Dance.” The Department also has a Ballet Association for students interested in the art of ballet.

**University Theatre**—The University Theatre program presents three major dramatic productions during the academic year plus a children’s theatre production. All University Theatre performances are open to the public. Students majoring in Speech and Theatre and following the Theatre concentration participate in some aspect of each production. However, participation is open to all members of the University and local community.

**MTSU Speech-Language and Hearing Clinic**—The Speech-Language and Hearing Clinic is open to all students at the University in need of speech, language, and hearing diagnosis and therapy. There is no charge to MTSU students for this service. Diagnostic and therapeutic services for persons in the midstate area with speech-language and hearing problems are also provided for a nominal fee. Students in the Communication Disorders concentration work in the clinic under the direct supervision of faculty members certified by the American Speech-Language-Hearing Association.

## Courses in Communication [COMM]

- 2150 Voice and Diction.** Three credits. Development of self-confidence, more articulate speech, and effective voice quality through knowledge of the vocal mechanism; classroom drills and individualized instruction.
- 2170 Oral Reader as Communicator.** Three credits. Prerequisite: COMM 2150. Speech skills of the oral reader developed through reading aloud and sharing meaning from the printed page.
- 2200 Fundamentals of Communication.** Three credits. Principles and processes underlying human communication. Communication models; communication purposes and breakdowns; variables related to interpersonal, small group, intercultural, and public communication. Emphasis on public oral communication including research, critical thinking, organization, presentation, and listening. **Counts as part of the General Education Communication requirement.**
- 2300 Interpersonal Communication.** Three credits. Overview and application of fundamental principles and theories. Highly participatory class in which analysis of students’ skills and further development is stressed. Foundation preparation for studying other forms of human communication.
- 3020 American Religious Communication.** Three credits. A rhetorical study of the religious communication in America from colonial times to the present.
- 3200 Parliamentary Procedure.** One credit. Principles of parliamentary procedure and their effective application through classroom exercises.
- 3210 Argumentation.** Three credits. Prerequisite: COMM 2200 or permission of instructor. Theory and practice of advocacy with emphasis on organization, refutation, reasoning, and rebuttal. In-class debating on questions of fact value and policy.
- 3220 Small Group Communication.** Three credits. Prerequisite: COMM 2200 or 2300 or permission of instructor. Theories of group dynamics and practical application. Study and practices of leadership in groups as decision-making organizations.
- 3225 Gender Communication.** Three credits. Prerequisite: COMM 2200 or 2300 or permission of instructor. Highly participatory class in which critical thinking of values, issues, decision-making paradigms, and traditions in the field of gender communication is expected. Emphasis on individual practical application in personal and professional environments.
- 3230 Advanced Public Speaking.** Three credits. Prerequisite: COMM 2200 or permission of instructor. Application of principles of public speaking through the analysis and criticism of speech structure and delivery of classroom speeches.
- 3300 Communication Theory, Culture, and Films.** Three credits. Selected communication theories and implications for culture and communication as revealed in films as cultural texts.
- 3325 Great American Speakers.** Three credits. A rhetorical study of the great American speakers from colonial times to the present. Successful students will gain an understanding of the principles of rhetorical criticism and apply these principles to selected speakers. Students will also gain an appreciation of the impact of public communication upon our society.

- 3340 Interview Communication.** Three credits. Prerequisites: Junior standing or permission of instructor. A critical study of interviewing and effective communication techniques for employment selection and informative, persuasive, exit, and appraisal interviews.
- 3560 Intercultural Communication.** Three credits. The dynamics of the communication process as it functions in intercultural contexts; training for successful cross-cultural communication interactions.
- 3620, 3630, 4620, 4630 Applied Communication.** One credit each. Prerequisite: Recommendation by a departmental faculty member. Field and laboratory experiences for the study of communication.
- 4000 Communication in the Educational Environment.** Three credits. Designed to meet the needs of the classroom teacher. Successful communication strategies applicable to the classroom environment.
- 4040 Debate Across the Curriculum: Practicum.** Three credits. Prerequisites: COMM 3210 and permission of department. Advanced techniques and methods for using argumentation and debate in teaching core curriculum in upper elementary and secondary school classes and developing intrascholastic debate and interscholastic debate activities. Practicum experiences provided.
- 4260 Readings in Communication.** Three credits. Prerequisites: Permission of instructor and completion of 21 semester hours in communication studies courses. Intensive study of a specific area of communication; topic is chosen in instructor-student conference.
- 4280 Political Communication.** Three credits. Nature and functions of communication with political institutions and groups, including campaign communication, decision-making strategies, deliberative discourse, advocates, and interest groups.
- 4320 Theories of Persuasive Communication.** Three credits. Recent writings and research on theories of persuasion and on current practices of persuasion. Emphasis on ethical critical, cultural, and functional implications in contemporary persuasion theory and practice.
- 4650 History, Theory, and Criticism of Rhetoric.** Three credits. Prerequisite: COMM 2200 or 3230. Explores history, theory, and criticism of rhetoric from ancient times to the present.
- 4700 Senior Seminar in Communication.** Three credits. Intensive investigation of the major research methodologies in communication studies; presentation of senior projects and a synthesis of the communication discipline.
- 4800 Special Topics in Communication.** One to three credits. Meets individual and group needs for advanced study in speech communication. Topic determined at the time of scheduling. A maximum of six semester hours may be applied toward a degree.
- 4900 Internship in Communication.** One to three credits. Practical experience in a professional work setting in a field requiring communication skills. May be repeated up to a maximum of four credit hours with no more than three credit hours earned in one semester.

## Courses in Communication Disorders [CDIS]

- 3050 Introduction to Communication Disorders.** Three credits. Overview of the most common disorders of hearing, speech, and language, and intervention measures.
- 3150 Phonetics.** Three credits. Training in the recognition and production of the sounds of speech with an analysis of their formation; extensive practice in phonetic transcription.
- 3200 Phonological Disorders.** Three credits. Prerequisites: CDIS 3050 and 3150. Speech development, etiologies of phonological/articulatory problems, and approaches for assessing and remediating speech-sound errors.
- 3250 Speech and Language Development.** Three credits. Child speech and language acquisition from birth through the early school years. Emphasizes normal linguistic development.
- 3300 Clinical Methods in Communication Disorders.** Three credits. Prerequisites: CDIS 3050, 3150, 3200, and 3250 (for majors). Planning and implementing treatment programs for individuals with speech-language disorders. A foundation for clinical practicum.
- 3350 Hearing Problems and Testing.** Three credits. The etiologies and diagnoses of hearing problems; practical experience in administering audiometric examinations.
- 3400 Anatomy and Function of the Speech Mechanism.** Three credits. The structures and function of the speech mechanism.
- 3450 Fluency Disorders.** Three credits. Prerequisite: CDIS 3050. Etiologies, assessment, and treatment of fluency disorders.
- 4500 Training for the Hearing Impaired.** Three credits. Prerequisites: CDIS 3050, 3250, and 3350. Materials and methods employed in training the hearing impaired.
- 4550- Practicum in Speech-Language Pathology I.** Three credits each.
- 4580** Prerequisites for 4550: CDIS 3300, prior semester application, and completion of academic and professional criteria established by the faculty. Prerequisites for 4560, 4570, and 4580: CDIS 4550, 4560, and 4570 respectively. Supervised clinical practice in the University clinic.
- 4600 Practicum in Speech-Language Pathology II.** Three credits. Prerequisites: CDIS 4550 and 4560, prior semester application, and approval by faculty. Advanced supervised clinical practice in an off-campus clinical facility.
- 4620, 4630 Applied Speech.** One credit each. Prerequisite: Recommendation by a departmental faculty member. Study of a specific area of communication disorders to be completed through instructor-student conferences.
- 4650 Practicum in Speech-Language Pathology III.** Six credits. Prerequisites: CDIS 4550, 4560, and 4570; prior semester application; approval by faculty. Organization, management, and implementation of public school speech-language and hearing programs. Advanced supervised clinical practice in an off-campus clinical facility.
- 4700- Practicum in Audiology.** One credit each. Prerequisites for 4700:
- 4730** CDIS 3350 and 4550 or permission of instructor. Prerequisites for 4710, 4720, and 4730: 4700, 4710, 4720 respectively. Laboratory course in applying principles of audiology.

- 4750 Advanced Audiology.** Three credits. Prerequisite: CDIS 3350. The development of advanced skills in the evaluation and remediation of hearing problems.
- 4800 Speech and Language Disorders in the Adult Population.** Three credits. Overview of the impact of age on communication. Identification and remediation of communication problems associated with the aging process.
- 4850 Speech and Language Disorders in Childhood.** Three credits. Prerequisites: CDIS 3400 and 4550 or permission of instructor. A comprehensive study of the speech, language, and voice difficulties experienced by children.
- 4900 Diagnostic Procedures in Speech Pathology.** Three credits. Prerequisite: CDIS 4550 or permission of instructor. Basic concepts of measurement and application of diagnostic procedures used in speech-language pathology.
- 4950 Special Topics in Communication Disorders.** Three credits. Advanced reading and discussion seminar about topics in speech-language pathology or audiology.

## Courses in Dance [DANC]

- 1000 Dance Appreciation.** Three credits. Dance as an expressive art form, a symbolic language, and an integral aspect of world cultures. Lecture/discussion course for the general student population. Not a performance or activity course.
- 1010 Modern Dance Techniques I.** Two credits. Modern dance techniques; emphasis on exploration of fundamentals of dance as a form of artistic communication. For students with little or no previous experience in modern dance. May be repeated for a maximum of 4 credits.
- 1020 Jazz Dance Techniques I.** Two credits. Contemporary jazz dance techniques; emphasis on exploration of fundamentals of dance as a form of artistic communication. For students with little or no previous experience in jazz dance. May be repeated for a maximum of 4 credits.
- 1030 Tap Dance Techniques I.** Two credits. Tap dance techniques; emphasis on exploration of the fundamentals of dance as a form of artistic communication. For students with little or no previous experience in tap dance. May be repeated for a maximum of 4 credits.
- 1040 Ballet Techniques I.** Two credits. Classical ballet techniques; emphasis on exploration of ballet as a classical art form. For students with little or no experience in ballet. May be repeated for a maximum of 4 credits.
- 2010 Modern Dance Techniques II.** Two credits. Prerequisite: DANC 1010 or permission of instructor. Intermediate modern dance techniques. May be repeated for a maximum of 4 credits with permission of instructor.
- 2020 Jazz Dance Techniques II.** Two credits. Prerequisite: DANC 1020 or permission of instructor. Intermediate jazz dance techniques. May be repeated for a maximum of 4 credits with permission of instructor.
- 2030 Tap Dance Techniques II.** Two credits. Prerequisite: DANC 1030. Intermediate tap dance techniques. May be repeated for a maximum of 4 credits with permission of instructor.
- 2040 Ballet Techniques II.** Two credits. Prerequisite: DANC 1040 or permission of instructor. Intermediate ballet techniques. May be repeated for a maximum of 4 credits with permission of instructor.
- 3010 Modern Dance Techniques III.** Two credits. Prerequisite: DANC 1010, 2010, or permission of instructor. Techniques, choreography, and various aspects of Labanotation for the experienced dancer and choreographer. May be repeated for a maximum of four credits.
- 3020 Jazz Dance Techniques III.** Two credits. Prerequisite: DANC 1020, 2020, or permission of instructor. Advanced jazz dance techniques. May be repeated for a maximum of 4 credits with permission of instructor.
- 3030 Tap Dance Techniques III.** Two credits. Prerequisite: DANC 1030, 2030, or permission of instructor. Advanced tap dance techniques. May be repeated for a maximum of 4 credits with permission of instructor.
- 3040 Ballet Techniques III.** Three credits. Prerequisite: Permission of instructor. Advanced ballet techniques. May be repeated for a maximum credit of 6 credits with permission of instructor.
- 3100 Dance Composition.** Three credits. Prerequisite: Permission of instructor. Theory and methods of analyzing and describing dance movement.
- 3600 Teaching Creative Movement for Children.** Two credits. Prerequisites: 2000-level dance technique courses in ballet or modern dance and permission of department. Dance as a viable activity that can enhance the learning process. Explores the discipline of dance as basic to an education for all people. Educational and aesthetic theories and practices related to fashioning developmentally appropriate dance experiences for children.
- 4000-4030 Dance Performance.** One credit each. Prerequisites: Permission of instructor and co-registration in DANC 1010, 1020, 1030, 1040, 2010, 2020, 2030, 2040, 3010, 3020, 3030, 3040, or 4040. All aspects of concert planning and production as performer and crew member. May be taken for one credit per semester for a total of four credits.
- 4000 Dance Performance I**  
**4010 Dance Performance II**  
**4020 Dance Performance III**  
**4030 Dance Performance IV**
- 4040 Ballet Techniques IV.** Three credits. Prerequisite: Permission of instructor. Performance-level techniques and choreography for solo and ensemble pieces in both classical and contemporary styles. May be repeated for a maximum of 6 credits with permission of instructor.
- 4100 Choreography I.** Three credits. Prerequisite: DANC 3100 or permission of instructor. Exploration of movement, technique sequences, and choreographic forms; basic elements of notation.
- 4110 Choreography II.** Three credits. Prerequisites: DANC 3100 or 4100 or permission of instructor. Directed study of a choreographic project. Exploration of choreographic techniques to develop an original group dance and the execution of plans for costumes, lighting, make-up, and sound.
- 4120 Dance Therapy.** Three credits. The use of movement in helping to reduce physiological, psychological, and sociological aberrations. Designed to help the teacher and specialist in working with children who have these problems.

- 4130 Dance for Theatre.** Three credits. Prerequisite: Permission of instructor. Techniques of dance for musicals, comedies, operas, television, and stage and choreography for these forms.
- 4140 Internship in Dance.** Three credits. Prerequisite: Approval of chair or dance faculty. Students assigned to work with professional dance companies or arts centers. Pass/Fail.
- 4600 Theory and Practice I: The Body as the Instrument of Dance.** Two credits. Theory and practice of teaching dance as it pertains to the dancer's instrument—the human body. Acquaints the dance student with dance education, nutrition, body therapies, environmental effects on the human body, and the emerging area of dance medicine while training for classical ballet and modern dance.
- 4610 Theory and Practice II: Pedagogy for Ballet and Modern Dance.** Two credits. Prerequisites: 1000- and 2000-level course of ballet or modern dance. Theory and practice of teaching classical ballet and modern dance techniques based on sound anatomical and kinesiological principles.
- 4800 History of Dance.** Three credits. A survey of dance from primitive to the present with an emphasis on the style and techniques of dance as it was performed.

## Courses in Organizational Communication [ORCO]

- 3240 Introduction to Organizational Communication.** Three credits. Theories and processes of communication within organizations.
- 3250 Organizational Communication in Communities.** Three credits. Theories and techniques involving communication between organizations and their constituencies. Identification and analysis of communication involving corporate philanthropy and fundraising, special events, volunteers, image, crises, and ethical considerations.
- 3500 Innovation and Communication.** Three credits. Prerequisite: Junior standing or permission of instructor. Organizational communication and its relationship to employees, leadership, corporate culture, diversity, change, and innovation.
- 3650 Conflict and Communication.** Three credits. Prerequisite: Junior standing or permission of instructor. The role of communication in conflict management/resolution between or among individuals and groups. Includes an examination of workplace violence, risk communication, social responsibility, and ethics.
- 3750 Organizational Communication Analysis.** Three credits. Prerequisite: Junior standing or permission of instructor. Critical analysis of organizational communication using survey research and other methods including studies of content, readability, readership, information dissemination, and organizational effectiveness.
- 4500 Communication Consulting and Auditing.** Three credits. Prerequisite: Senior standing or permission of instructor. Capstone course combines tools learned in both statistical methods and research methods courses with theory from other courses in the major. Communication audit designed to address specific issues in a variety of organizations. Addresses broader issues such as consulting ethics and social responsibility.

## Courses in Theatre [THEA]

- 1030 Theatre Appreciation.** Three credits. Overview of theatre as an art form. Appreciation and understanding of the production process. Not a performance course. **Can be used to satisfy part of the General Education Humanities and/or Fine Arts requirement.**
- 1900 Production Practicum I.** One credit. Prerequisite: Permission of instructor. Specific area of study in relation to a particular theatrical event or production during a given semester. Topics range from the performance to technical crews. Students may take up to four times, but only one hour will count towards graduation.
- 2110 Stagecraft.** Three credits. Lectures and practical experience in the techniques of planning, building, painting, and handling all types of scenery; knowledge of theatre architecture and how sets are mounted, shifted, and run. Laboratory hours and/or crew required.
- 2500 Fundamentals of Acting.** Three credits. The mechanics of acting in terms of physical movement body control and character-building techniques.
- 2900 Production Practicum II.** One credit. Prerequisite: Permission of instructor. Specific area of study in relation to a particular theatrical event or production during a given semester. Topics range from the performance to technical crews. Students may take up to four times, but only one hour will count toward graduation.
- 3000 Sound Design for Arts and Entertainment.** Three credits. Theory and practice of theatrical sound designers conducted through classroom lecture and practical project. Utilizes tools, equipment, and techniques of sound designers with emphasis on design process and critical methods of study. Technical performance production component expected. Laboratory hours required.
- 3100 Make-Up Techniques for Performers.** Three credits. Application of make-up techniques and concepts for performers in theatre, television, film, dance, opera, and other performing arts. Laboratory hours and/or crew requirement.
- 3200 Introduction to Costume for Arts and Entertainment.** Three credits. Overview of costume in the arts and entertainment; an orientation to costume, design, management, technology, wardrobe practices, and costume critique methods through projects developed through research, problem-solving, and documentation; focus on student career and portfolio development. Laboratory hours and/or crew requirement.
- 3300 Scene Design.** Three credits. Prerequisite: THEA 2110 or permission of instructor. Lectures and practical experience in planning and designing settings for the stage. Emphasis on forms and styles of scenery, historical period research designers, and new theatrical materials, methods, and techniques. Major projects in set design. Laboratory hours and/or crew requirement.
- 3310 Technical Drawing for Arts and Entertainment.** Three credits. Prerequisite: THEA 2110 or permission of instructor. Lectures and projects in all phases of technical drawing for the theatre and related arts and entertainment disciplines. Developing technical drawing skills needed for scenic, lighting, and technical direction areas using both manual and CAD techniques. Purchase of supplies necessary.



- 3400 Introduction to Lighting for Arts and Entertainment.** Three credits. Prerequisite: THEA 2110 or permission of instructor. Lectures and practical experience in the methods and techniques of lighting for the stage. Emphasis on developing plots through knowledge of electricity, circuitry, instrumentation, and control equipment. Major projects in lighting design. Laboratory hours and/or crew requirement.
- 3500 Stage Movement.** Three credits. A theoretical and practical study of stage movement. Styles and techniques for physical realization of character and performance.
- 3600 Child Drama.** Three credits. Methodology for using theatre and theatre techniques for teaching children in various venues. Motivational, self-directed learning through creative drama, improvisation, role-playing, and theatre games.
- 3700 Fundamentals of Play Directing.** Three credits. Prerequisite: THEA 2500 or permission of instructor. Director as literary analyst and production critic. Play analysis, production concepts, staging, theory and techniques; rehearsal methods and procedures. Scene work.
- 3800 Introduction to Arts Management.** Three credits. Prerequisite: Junior standing or permission of instructor. Management of a not-for-profit arts organization. Topics include organizational design, strategic planning, budgeting, marketing, and fundraising within the context of a visual or performing arts organization. Guest lecturers from regional arts organizations. Projects and discussion for individual interests in various arts disciplines. Laboratory hours required and/or crew requirement.
- 3810 Stage Management.** Three credits. Prerequisite: Junior standing or permission of instructor. Explores the role and function of the stage manager in creating live theatre. Focuses on the duties, terminology, and required skills and traits of an effective stage manager. Laboratory hours required and/or crew requirement.
- 3870 Women in Theatre.** Three credits. Women's representation and participation in Western theatre from ancient Greece to the present.
- 3900 Production Practicum III.** One credit. Prerequisite: Permission of instructor. Specific area of study in relation to a particular theatrical event or production during a given semester. Topics range from the performance to technical crews. Students may take up to four times, but only two hours will count towards graduation.
- 3910 Practicum in Summer Theatre.** Three credits. Prerequisite: Permission of instructor. For students who have been employed in a summer theatre company. Auditioning, interviewing, fact sheets on theatres and communities, general duties and responsibilities, benefits for Middle Tennessee State University Theatre; student reports compiled into a handbook.
- 4000 Advanced Sound Design for Arts and Entertainment.** Three credits. Prerequisite: THEA 3000. Advanced studies, theories, and practices of theatrical sound design with a strong emphasis on the design process and critical methods of study used in this specialized field. Additional focus placed on student career and portfolio development in this field.
- 4090 Topics in Sound for Arts and Entertainment.** Three credits. Prerequisite: THEA 3000, 4000, or permission of instructor. Designed to meet individual needs for advanced study in sound for entertainment and the arts. Topic to be determined at time of scheduling. A maximum of 6 semester hours may be applied toward a degree.
- 4100 Special Effects Make-Up.** Three credits. Prerequisite: THEA 3100 or permission of instructor. Orientation to special effects make-up design, techniques, and design realization through make-up projects and research for various performance venues with a focus on student career and portfolio development.
- 4110 Make-Up Design and Creation.** Three credits. Prerequisites: THEA 3100 or permission of instructor. Designed to meet individual and group needs; an intensive application of make-up design incorporating all aspects of make-up in the performing arts focusing on in-depth historical research, advanced techniques, hair/wig design, creative problem-solving, and portfolio and resume development. Laboratory hours required.
- 4190 Topics in Make-up for Arts and Entertainment.** Three credits. Prerequisites: THEA 3100, 4100, 4110, or permission of instructor. Designed to meet individual needs for advanced study in make-up for entertainment and the arts. Topics to be determined at time of scheduling. A maximum of 6 semester hours may be applied toward a degree.
- 4200 Costume Technology and Production.** Three credits. Prerequisite: THEA 3200 or permission of instructor. Incorporates all aspects of costume production in the performing arts, focusing on research techniques, historical reproduction methods, construction design, resource management, problem-solving, and portfolio and resume development. Laboratory hours required.
- 4210 Advanced Costume Technology and Production.** Three credits. Prerequisite: THEA 4200 or permission of instructor. Designed to meet individual and group needs; an intensive application of costume technology in the performing arts focusing on in-depth research, methods, construction design, management, problem-solving, and portfolio and resume development. Laboratory hours required.
- 4220 Costume Design for Arts and Entertainment.** Three credits. Prerequisite: THEA 3200 or permission of instructor. Costume design in the performing arts; an orientation to the costume application of design and development principles through costume design projects developed through research for various performance venues with a focus on student career and portfolio development.
- 4230 Advanced Costume Design for Arts and Entertainment.** Three credits. Prerequisite: THEA 4220 or permission of instructor. Designed to meet individual and group needs for advanced study and principles in theatrical costume design. Projects developed through in-depth research for various performance venues with a focus on student career and portfolio development.
- 4280 Topics in Costume for Arts and Entertainment.** Three credits. Prerequisites: THEA 3200, 4200, 4210, or permission of instructor. Designed to meet individual needs for advanced study in costume for entertainment and the arts. Topic to be determined at time of scheduling. A maximum of 6 semester hours may be applied toward a degree.
- 4290 Problems in Theatre.** One to three credits. Prerequisite: Permission of instructor. Designed to meet individual and/or group needs in all aspects of theatre arts. Topic and credit to be determined at the time of scheduling. A maximum of 6 semester hours credit may be applied toward a degree.

- 4300 Advanced Scenic Design.** Three credits. Prerequisites: THEA 2110 and 3300 or permission of instructor. Advanced methods and theories of scenic design. A strong emphasis on practical projects, the design process, and critical methods of study. Includes components on design history and theory/criticism.
- 4390 Topics in Scenography.** One to three credits. Prerequisites: THEA 2110 and permission of instructor. Designed to meet individual and group needs for advanced study in theatre. Topic to be determined at time of scheduling. A maximum of 6 semester hours credit may be applied toward a degree.
- 4400 Intermediate Lighting for Arts and Entertainment.** Three credits. Prerequisite: THEA 3400 or permission of instructor. Advanced methods and theories of lighting design. Strong emphasis on practical projects, design process, and critical methods of study. Includes components on design history and theory/criticism.
- 4480 Advanced Lighting Practicum for Arts and Entertainment.** Three credits. Prerequisites: THEA 3400, 4400, or permission of instructor. Theory and practice of lighting design for arts and entertainment. Extensive practical and realized projects that utilize the tools, equipment, and techniques of the lighting designer with an emphasis on the design process and critical methods of study. Laboratory hours required.
- 4490 Topics in Lighting for Arts and Entertainment.** Three credits. Prerequisite: THEA 3400, 4400, 4480, or permission of instructor. Designed to meet individual needs for advanced study in lighting for entertainment and the arts. Topic to be determined at time of scheduling. A maximum of 6 semester hours may be applied toward a degree.
- 4500 Character Development.** Three credits. Prerequisite: THEA 2500 or permission of instructor. The development of advanced skills in the ability to analyze and interpret the more complex characters in drama. Study of classical acting styles.
- 4570 The Body Intelligent: A Study of the Alexander Technique.** Two credits. (Same as MUS 4570.) For those interested in improving ease and freedom of movement, balance, support, flexibility, and coordination in daily activity.
- 4600 Storytelling.** Three credits. Instruction and experience in the art of storytelling. Individually designed course requirements for educational, professional, corporate, and personal storytelling techniques.
- 4610 Theatre in Education.** Three credits. For current and prospective teachers. Integration of drama across the curriculum. The creation, construction, performance, and touring of a play for elementary school children.
- 4620 Drama Across the Curriculum: Practicum.** Three credits. Prerequisite: THEA 3600 *and/or permission of department*. Advanced techniques and methods for teaching core curriculum in upper elementary classes using drama and role-playing. Practicum experiences provided.
- 4700 Advanced Play Directing.** Three credits. Prerequisite: THEA 3700. Case studies and problem solving of rehearsals and production. Director's relationship with designers. Investigation of style. Rehearsal and presentation of a one-act play.
- 4800 Theatre History I: Greek Period to Restoration.** Three credits. Prerequisite: Junior or senior standing or permission of instructor. The development of drama and the theatre; critical study of representative plays of the period.
- 4810 Theatre History II: Restoration to Present.** Three credits. Prerequisite: Junior or senior standing or permission of instructor. The development of drama and the theatre; critical study of representative plays of the period.
- 4820 Playwriting.** Three credits. Prerequisite: Permission of department. Theory and practice in the creation of original plays. Development and revision of original scripts while studying the methods and works of influential playwrights.
- 4890 Topics in Playwrights and Dramatic Theory.** Three hours. Prerequisite: THEA 4800 or 4810 or permission of instructor. Selected major playwrights linked by theme or a particular genre of dramatic theory; an intensive examination of plays which either survey playwrights' careers or represent a significant portion of a genre's canon. May be repeated for credit once.
- 4900 Production Practicum IV.** One credit. Prerequisite: Permission of instructor. Specific area of study in relation to a particular theatrical event or production during a given semester. Topics range from the performance to technical crews. Students may take up to four times, but only two hours will count towards graduation.
- 4990 Senior Project.** Three credits. Prerequisite: Permission of department. Practicum required for graduation. Students in consultation with advisors must select, plan, and organize a project that demonstrates a high level of achievement in the area of their specialization.

### Honors College

The Speech and Theatre Department offers Honors classes in COMM 2150, 2200 and 3300 and THEA 1030.

### Graduate Study

A minor in Speech and Theatre is offered at the graduate level. The specific course requirements may be designed to meet the academic needs of the individual graduate student. Courses from communication studies, theatre, and communication disorders may be taken for graduate credit. The Graduate Catalog has details and course listings.





# COLLEGE OF MASS COMMUNICATION

Anantha Babbili, Dean,  
Mass Communication 247

Jan Quarles, Assistant Dean,  
Mass Communication 218

Sarah Thompson, Academic Advisor,  
Mass Communication 212

Academic Advisor, Mass Communication 258

## **Electronic Media Communication • Journalism • Recording Industry**

The primary function of the College of Mass Communication is to provide appropriate professional education for people entering the fields of journalism, radio, television, photography, and the recording industry; to provide consumer education for majors and non-majors who enter other fields; and to provide instruction for persons with highly specialized needs. This means presenting students with a broad-based conceptual map of the field that systematically considers theoretical underpinnings, connections with the liberal arts and sciences, a fundamental knowledge of the communication industries, and professional training.

Following are the curricula, courses, and specific requirements for majors and minors in each department or school.





The college offers the Bachelor of Science degree with majors in Mass Communication and Recording Industry.

Mass Communication majors have an opportunity to specialize in one of six concentrations: Advertising-Public Relations, Media Design and Graphics, or Journalism in the School of Journalism; and Photography, Electronic Media Communication, or Digital Media Communication in the Department of Electronic Media Communication. Additional specialties are available in the various concentrations.

Majors in the Department of Recording Industry may choose a concentration in either Music Business or Production and Technology.

All curricular programs throughout the College of Mass Communication attempt to address a common, minimum set of core competencies. The current core competencies include:

1. literacy;
2. history, theory, and research appropriate to the area;
3. law, ethics, and policy appropriate to the area.

The College of Mass Communication does not participate in the plus/minus (+/-) grading system. Therefore, the only grades that will be issued for coursework in the college are A, B, C, D, and F. Mass Communication majors must earn a C or better in each course in the college in order to graduate.

## Major in Mass Communication

Constructed around a core of basic courses, this professionally accredited program is designed to provide students with practical communication skills while acquainting them with the history, theory, ethics, social responsibility, and law of mass communication.

Students majoring in Mass Communication take up to 40 hours of coursework in the college, depending upon the major selected. A minimum of 80 hours **must** be taken outside the college with **at least** 65 hours in liberal arts and sciences (see below). Total university credit for Individual Problems, Practicum, and Internship courses cannot exceed six hours (three hours in the School of Journalism).

A student must also have either one or two 15-hour (or more) minors depending upon the sequence chosen. The minors must normally be taken in the liberal arts and sciences such as economics, English, geography, history, languages, literature, philosophy, political science, psychology, speech or theatre, sociology, or the natural sciences and mathematics. Students majoring in the School of Journalism or the Department of Electronic Media Communication may not minor in a second Mass Communication concentration nor may they minor in Recording Industry. Any recording industry courses taken by Mass Communication majors count as mass communication credit. For transfer students, only 12 credits are accepted in the major but they must be courses required for the degree in the various sequences. Additional mass communication transfer hours must be counted above the 120 hours needed for graduation; however, these additional transfer hours are calculated in the cumulative GPA.

## Core Curriculum

The following courses are required for all Mass Communication concentrations and constitute the core curriculum. The core is designed to introduce students to a broad range of information and thought common to all areas of mass communication. The 9-hour core prepares students in any concentration with the basics of factual writing, editing, law, communication theory, communication history, and ethics.

JOUR/EMC/RIM 1020	Understanding Mass Media, 3 hours
JOUR 2710	Media Writing, 3 hours, or equivalent writing competency
JOUR/EMC 4250	Media Law, 3 hours, or equivalent law competency

## Candidacy Program

The College of Mass Communication includes a candidacy program for all majors in the college. This program is based on research indicating a relationship between completion of certain required classes with certain minimum grade point expectations and both performance and retention in the major. In addition, the requirements specified in the candidacy program are consistent with requirements of our national accrediting agency.

The candidacy program of the College of Mass Communication imposes requirements in several areas.

- A. Admission to most upper-division professional courses in the College of Mass Communication will be restricted to students admitted to candidacy.
- B. All majors in the College of Mass Communication should apply for admission to candidacy at the end of the semester in which they will have completed 45 semester hours of coursework.
- C. At a minimum, students in all concentrations in the college must have completed all of the following courses with a grade of C or better before applying for candidacy.
  - JOUR/EMC/RIM 1020
  - ENGL 1010 and 1020
  - At least one additional introductory course in the specific program area for which candidacy is being sought.
- D. At a minimum, students applying for candidacy in all concentrations in the college must have an overall GPA on all university-level coursework of at least 2.50. Individual programs in the college are free to set higher minimum GPA requirements.
- E. Specific candidacy requirements are listed by concentration in each department.

### Liberal Arts and Sciences Requirements

All students in the School of Journalism and in the Department of Electronic Media Communication must complete 65 approved liberal arts and sciences hours to meet graduation requirements.

The following departments and programs are considered by the deans of the academic colleges at Middle Tennessee State University to comprise the liberal arts and sciences. All courses in these departments or programs meet approved liberal arts and sciences requirements.

African American Studies	Mathematical Sciences
Art	Music
Biology	Philosophy
Chemistry	Physics and Astronomy
Computer Science	Political Science
Economics and Finance	Psychology
English	Sociology and Anthropology
Foreign Languages and Literatures	Social Work
Geosciences	Speech and Theatre
History	Women's Studies

### Minor in Mass Communication

A total of 18 hours of coursework is required for the minor in Mass Communication. Interested persons should contact the director of the School of Journalism or the chairs of Electronic Media Communication or Recording Industry departments for a minor advisor **before** beginning coursework. A grade point average of 2.00 is required in a Mass Communication minor.

### University Media

Students majoring in Mass Communication are urged to become involved with the various campus media because they offer excellent opportunities for practical experience. These include three student publications—*Sidelines*, the student newspaper; *Collage*, the student creative magazine; and *Midlander*, the University yearbook—WMOT-FM, the campus NPR-affiliated radio station; Channel 10, the student-operated cable television channel; and WMTS, a student-operated low power radio station.



# School of Journalism

**Larry Burriss, Interim Director**  
**Mass Communication 249**

Applegate, Asthana, Badger, Bishop, Blake, Bodle, Burriss, Eason, Kimbrell, Marcellus, Nagy, Panol, Parente, Rawls, Ryfe, Wong, Wyatt

The School of Journalism offers work leading to the Bachelor of Science degree with a major in Mass Communication and concentrations in Advertising-Public Relations, Media Design and Graphics, or Journalism (newspaper/magazine). A total of 37-39 hours of coursework is required for the major in the School of Journalism. A minimum of 80 hours must be taken outside the college, with at least 65 hours in the liberal arts and sciences. Students outside the college may choose to minor in Mass Communication with an emphasis in any of the School of Journalism's concentrations.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

Freshmen/sophomores in all concentrations should follow this general outline of courses; selection of junior and senior courses should be made in consultation with the adviser. Majors must have a C (2.00) or better in all mass communication courses.

## Recommended Curriculum

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
COMM 2200 (Comm)	3	HUM 2610 (Hum/FA)	3
Natural Sciences (2 prefixes)	8	Social/Behavioral Sciences	
JOUR 1020, 2710	6	(2 prefixes)	6
Humanities and/or		HIST 2010, 2020, or 2030	6
Fine Arts (2 prefixes)	6	Consult adviser for course(s)	
	<b>29</b>	in major	3-6
		Mathematics	3
		Minor electives*	6
			<b>27-30</b>

\*All students in the School of Journalism are required to complete two 15-18 hour minors, at least one of which must be in the liberal arts and sciences. Students in any School of Journalism concentration may **not** minor in any area of the College of Mass Communication.

## Concentration: Advertising-Public Relations

Advertising and public relations are distinct fields; these programs help students prepare for positions in advertising agencies and departments, media sales and management, advertising production and design, public relations agencies and departments, and organizational and employee relations.

## Advertising

Although students in advertising are primarily oriented toward either the creative or management side of the business, they essentially take the same courses in advertising. Creative students usually minor in liberal arts areas such as English and art. In addition to the required liberal arts minor, management students usually complete their second minor in a business area such as marketing.

Advertising students take the following required courses. **Students should check the prerequisites for each course.**

## Admission to Candidacy

To be admitted to candidacy, the student must meet the following requirements:

- 45 hours completed before applying for candidacy
- Grade of C (2.00) or better in each of the following:  
 JOUR/EMC/RIM 1020  
 JOUR 2710  
 ADV 3020  
 ENGL 1010 and 1020  
 Math course satisfying General Education Mathematics requirement
- Minimum overall GPA in all school and university coursework of 2.50.

## Advertising Required Courses:

### Foundations (6 credits)

JOUR 1020	Understanding Mass Media
JOUR 3650	Free Expression, Mass Media, and the American Public

### Writing/Design (12 credits)

JOUR 2710	Media Writing
ADV 4160	Advertising Copywriting
<i>Plus two of the following:</i>	
GRAF 3950	Microcomputer Design for Media
P R 3360	Public Relations Communication
P R 3380	Public Relations Publications

### Conceptual (9 credits)

ADV 3020	Survey of Advertising
<i>Choose two:</i>	
GRAF 3010	Media Design and Visual Language
JOUR 3510	Media History and American Culture
JOUR 4250	Mass Media Law
JOUR 4210	Mass Communication and Society
JOUR 4660	Mass Media Research
JOUR 4780	Media and Markets
JOUR 4790	Global News and World Media Cultures
JOUR 4850	Ethics and Mass Communication

### Professional Topics (6 credits)

<i>Choose two:</i>	
ADV 3480	Advertising Media Planning
ADV 4230	Advertising Management
Upper-division elective with adviser's permission	

### Special/Senior Topics (3 credits)

ADV 4170	Advertising Campaigns
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### Practicum/Internship or Upper-Division Elective (1-3 credits)

JOUR 3580	MC Practicum
JOUR 4000	MC Internship
Journalism upper-division elective	

**Total hours in the college: 37-39**

## Public Relations

Students in public relations may choose the general program or a specialty in the recording industry; both programs require 37-39 credits. By the junior year, students should choose one minor in the liberal arts and sciences, plus 15 hours, approved by their major advisers, in the Jennings A. Jones College of Business. With permission of the adviser or the director of the School of Journalism, a student may replace the 15 hours in the Jennings A. Jones College of Business with a minor in the basic or applied sciences or a second minor in the liberal arts and sciences.

## Admission to Candidacy

To be admitted to candidacy, the student must meet the following requirements:

1. 45 hours completed before applying for candidacy
2. Grade of C (2.00) or better in each of the following:  
JOUR/EMC/RIM 1020  
JOUR 2710  
P R 3040  
ENGL 1010 and 1020  
Math course satisfying General Education Mathematics requirement
3. Minimum overall GPA in all school and university coursework of 2.50.

### Public Relations Required Courses:

#### Foundations (6 credits)

JOUR 1020 Understanding Mass Media  
JOUR 3650 Free Expression, Mass Media, and the American Public

#### Writing/Design (15 credits)

##### Writing

JOUR 2710 Media Writing  
P R 3360 Public Relations Communication

Choose one:

JOUR 3530 Feature Writing  
JOUR 3450 Editing

##### Design

GRAF 3010 Media Design and Visual Language

Choose one:

GRAF 3950 Microcomputer Design for Media  
P R 3380 Public Relations Publications

#### Conceptual (9 credits)

P R 3040 Public Relations Principles

Choose two:

ADV 3020 Survey of Advertising  
JOUR 3510 Media History and American Culture  
JOUR 4250 Mass Media Law  
JOUR 4210 Mass Communication and Society  
JOUR 4660 Mass Media Research  
JOUR 4780 Media and Markets  
JOUR 4790 Global News and World Media Cultures  
JOUR 4850 Ethics and Mass Communication

#### Professional Topics (3 credits)

Choose one:

P R 3400 Case Studies in Public Relations  
GRAF 3910 Basic Media Design  
JOUR 3090 Reporting

#### Senior Topics (3 credits)

P R 4740 Public Relations Campaigns

#### Internship/Practicum or Upper-Division Elective (1-3 credits)

Choose one:

JOUR 3580 MC Practicum  
JOUR 4000 MC Internship  
JOUR upper-division elective

**Total hours in the college: 37-39**

### Public Relations/Recording Industry Specialty Required Courses: Foundations (6 credits)

JOUR 1020 Understanding Mass Media  
JOUR 3650 Free Expression, Mass Media, and the American Public

### Writing/Design (15 credits)

#### Writing

JOUR 2710 Media Writing  
P R 3360 Public Relations Communication  
RIM 3770 Publicity in the Recording Industry

#### Design

GRAF 3010 Media Design and Visual Language

Choose one:

P R 3380 Public Relations Publications  
GRAF 3950 Microcomputer Design for Media

### Conceptual (9 credits)

P R 3040 Public Relations Principles  
RIM 3600 Survey of the Recording Industry

Choose one:

JOUR 3510 Media History and American Culture  
JOUR 4250 Mass Media Law  
JOUR 4210 Mass Communication and Society  
JOUR 4660 Mass Media Research  
JOUR 4780 Media and Markets  
JOUR 4790 Global News and World Media Cultures  
JOUR 4850 Ethics and Mass Communication

### Professional Topics (3 credits)

Choose one:

JOUR 3450 Editing  
P R 3400 Case Studies in Public Relations  
GRAF 3910 Basic Media Design  
RIM 3720 Artist Management  
RIM 4320 Concert Promotion and Touring  
ADV 3020 Survey of Advertising  
RIM 3890 International Recording Industry  
RIM 4620 Marketing of Recordings

### Senior Topics (3 credits)

P R 4740 Public Relations Campaigns

### Internship/Practicum or Upper-Division Elective (1-3 credits)

Choose one:

Journalism elective  
JOUR 3580 MC Practicum  
JOUR 4000 MC Internship/  
RIM 4000 Recording Industry Internship: Business

**Total hours in the college: 37-39**

## Concentration: Media Design and Graphics

Media Design and Graphics involves all the elements of visual communication, from traditional typography to digitized design for newsletters, newspapers, magazines, and the Web. The sequence's main emphasis is publication design, including print and interactive media that deliver information, opinion, and entertainment via printed publications ranging from informational graphics, brochures, books, magazines, and newspapers to the digital production in various multimedia forms, including the Internet.

Media Design and Graphics students take the following required courses. **Students should check the prerequisites for each course.**



### Admission to Candidacy

To be admitted to candidacy, the student must meet the following requirements:

1. 45 hours completed before applying for candidacy
2. Grade of C (2.00) or better in each of the following:  
JOUR/EMC/RIM 1020  
JOUR 2710  
GRAF 3010  
ENGL 1010 and 1020  
Math course satisfying General Education Mathematics requirement
3. Minimum overall GPA in all school and university coursework of 2.50.

#### Media Design and Graphics Required Courses:

##### Foundations (6 credits)

JOUR 1020 Understanding Mass Media  
JOUR 3650 Free Expression, Mass Media, and the American Public

##### Writing/Design (12 credits)

##### Writing (9 credits)

JOUR 2710 Media Writing  
JOUR 3450 Editing  
*Choose one:*  
JOUR 3090 Reporting  
JOUR 3530 Feature Writing  
EMC 3020 Writing for the Electronic Media  
EMC 3060 Writing for Digital Media

##### Design

GRAF 3910 Basic Media Design

##### Conceptual Topics (12 credits)

GRAF 3010 Media Design and Visual Language  
*Choose three:*  
JOUR 3510 Media History and American Culture  
JOUR 4250 Mass Media Law  
JOUR 4210 Mass Communication and Society  
JOUR 4660 Mass Media Research  
JOUR 4780 Media and Markets  
JOUR 4790 Global News and World Media Cultures  
JOUR 4850 Ethics and Mass Communication  
JOUR 4810 Advanced Media Design  
PHOT 4190 Ethics and Law for Visual Communicators

##### Professional Topics (3 credits)

*Choose one:*  
GRAF 4010 Publication Design  
GRAF 3950 Microcomputer Design for Media

##### Senior Topic (3 credits)

GRAF 4180 Advanced Media Design

##### Internship (1-3 credits)

*Choose one or a combination of not more than 3 hours total*  
JOUR 4000 MC Internship  
JOUR 3580 MC Practicum  
Journalism upper-division elective

**Total hours in the college: 37-39**

### Concentration: Journalism

The concentration in Journalism offers preparation for students who wish to be news reporters, copy editors, feature writers, editorial writers, and freelance magazine writers. **Students should check the prerequisites for each course.**

### Admission to Candidacy

To be admitted to candidacy, the student must meet the following requirements:

1. 45 hours completed before applying for candidacy
2. Grade of C (2.00) or better in each of the following:  
JOUR/EMC/RIM 1020  
JOUR 2710  
JOUR 3090  
ENGL 1010 and 1020  
Math course satisfying General Education Mathematics requirement
3. Minimum overall GPA in all school and university coursework of 2.50.

#### Journalism Required Courses:

##### Foundations (6 credits)

JOUR 1020 Understanding Mass Media  
JOUR 3650 Free Expression, Mass Media, and the American Public

##### Writing/Design (12 credits)

JOUR 2710 Media Writing  
JOUR 3090 Reporting  
*Choose one:*  
JOUR 3530 Feature Writing  
JOUR 4440 Advanced Reporting  
*Choose one:*  
JOUR 3450 Editing  
GRAF 3950 Microcomputer Design for Media

##### Conceptual (12 credits)

*Choose four:*  
GRAF 3010 Media Design and Visual Language  
JOUR 3510 Media History and American Culture  
JOUR 4250 Mass Media Law  
JOUR 4210 Mass Communication and Society  
JOUR 4660 Mass Media Research  
JOUR 4780 Media and Markets  
JOUR 4790 Global News and World Media Cultures  
JOUR 4850 Ethics and Mass Communication

##### Professional Topics (3 credits)

*Choose one:*  
JOUR 3520 Specialized Journalism  
JOUR 3590 Magazine Writing and Editing  
JOUR 4300 Reviewing and Criticism

##### Special/Senior Topics (3 credits)

JOUR 4800 Seminar in Media Issues

##### Practicum/Internship (1-3 credits)

*Choose one:*  
JOUR 3580 MC Practicum  
JOUR 4000 MC Internship

**Total hours in the college: 37-39**

### Minor in Art for Mass Communication Students

Students majoring in Mass Communication programs take the following sequence for the art minor: ART 1610, 1620, 1630; an art history course and two studio courses, one of which must be upper-division.

## Courses in Advertising [ADV]

- 3020 Survey of Advertising.** Three credits. Overview of advertising principles and practices including the role of advertising in society and the marketplace, consumer behavior, advertising media, budgeting and planning, and the creation and production of advertising messages.
- 3160 Advertising Copy and Layout.** Three credits. Prerequisite: Admission to candidacy or permission of instructor. Creation and production of advertising messages for various media, including publications, broadcast, outdoor, and direct mail.
- 3480 Advertising Media Planning.** Three credits. Prerequisite: Admission to candidacy. Planning, implementation, and evaluation of media objectives and strategy in advertising, including media characteristics, limitations, and budgeting.
- 4160 Advertising Copywriting.** Three credits. Prerequisite: Admission to candidacy. Advanced techniques and skills in the writing and design of advertising messages, emphasizing print and electronic media.
- 4170 Advertising Campaigns.** Three credits. Prerequisites: Admission to candidacy; ADV 3480 and 4160 or permission of instructor. Planning, designing, and executing all phases of a complete advertising campaign. An opportunity for advanced students to synthesize and apply skills from previous courses.
- 4230 Advertising Management.** Three credits. Prerequisites: Admission to candidacy; junior standing. Problems, decisions, and decision-making processes of advertising managers. Emphasis on decision making across functional areas of advertising process.

## Courses in Media Design and Graphics [GRAF]

- 3010 Media Design and Visual Language.** Three credits. Required for candidacy. Overview of concepts for effective visual communication; the role of visual elements and design practices in a cultural, historical, and political context; basic typography and design, electronic and digital composition and reproduction, and technological aspects of design and production.
- 3910 Basic Media Design.** Three credits. Prerequisites: Admission to candidacy; JOUR 2710 and GRAF 3010. Basic design process for publication; in-depth analysis of typography, copywriting, art and illustration, photography; theory and practice of color reproduction; diverse design images; informational graphics, production methods of design for print and electronic media. Cannot be taken concurrently with GRAF 3950.
- 3950 Microcomputer Design for Media.** Three credits. Prerequisites: Admission to candidacy; GRAF 3010. Computer design process of conceptualization, organization, and implementation for publication and foundations for content-based designs; reviews of software programs, related hardware and peripheral components applicable to publication design; introduction of electronic publishing procedures. Cannot be taken concurrently with GRAF 3910.
- 4010 Publication Design.** Three credits. Prerequisites: Admission to candidacy; GRAF 3910 or 3950. Principles and practices of publication design and production with emphasis on newsletters, magazines, newspapers, and contemporary formats; use of traditional and electronic information services as a resource; se-

lection and use of photographs and illustrations for publication; preparation of design for print, electronic, or multimedia publication.

- 4180 Advanced Media Design.** Three credits. Prerequisites: Admission to candidacy; GRAF 4010. Application of contemporary graphic design technologies for solving visual problems in print and electronic media. Creative strategies in media design and design copywriting; cooperative and collaborative design projects; legal aspects of media graphics; strategies for designing diverse images, color reproduction, and evaluation of design performance standards for portfolio.

## Courses in Journalism [JOUR]

- 1020 Understanding Mass Media.** Three credits. (Same as EMC/RIM 1020.) Analysis of the content and context of the American mass media to understand how they affect individuals and society. Emphasis on practical knowledge of the workings of the media from a general perspective.
- 2710 Media Writing.** Three credits. Prerequisites: ENGL 1010 and 1020 or equivalents. Theory and practice of writing for print and electronic media according to the techniques, styles, and formats of various media. Laboratory required.
- 3000 Introduction to Motion Pictures.** Three credits. (Same as EMC 3000.) Prerequisite: Junior standing or permission of instructor. The development and role of motion pictures in America, including the history of films and filmmakers, the influence of film on American culture, and film criticism.
- 3090 Reporting.** Three credits. Prerequisite: JOUR 2710. Theory and practice of basic journalistic skills, including the gathering, evaluating, and processing of news copy for newspapers. Classwork will be submitted to student or local newspapers.
- 3100 Music as Popular Culture.** Three credits. (Same as RIM 3100.) Prerequisite: Admission to candidacy. Introduces range of scholarly approaches to the study of popular music. Encourages perspectives other than those of "producer" or "consumer." Requires applications of analytical and critical methods in research paper assignment.
- 3450 Editing.** Three credits. Prerequisite: Admission to candidacy. Theory and practice in the art of copy editing, including editing, language skills, newspaper style, news judgment, headline writing, photo editing, cutline writing, and page design.
- 3510 Media History and American Culture.** Three credits. (Same as EMC 3510.) Development of American journalism and the mass media from Colonial times to the present, including the role and influence of mass media on American culture, technical advances, and contributions of individual personalities.
- 3520 Specialized Journalism.** Three credits. Prerequisite: JOUR 3090 and admission to candidacy. The unique facets of print journalism not available in other courses. Topics include investigative, online, environmental, sports, medical, political reporting, or opinion writing. May be repeated up to 6 credits.
- 3530 Feature Writing.** Three credits. Prerequisite: Admission to candidacy or permission of instructor. Theory and practice of writing feature stories for newspapers and magazines. Assignments in writing for professional publications as well as the student newspaper.

- 3580 MC Practicum.** One to three credits. Prerequisites: Admission to candidacy; junior standing; permission of instructor. Practical experience in an on-campus mass communication setting. **Note:** Total credit for practicum and internship courses cannot exceed 3 credits. Pass/Fail.
- 3590 Magazine Writing and Editing.** Three credits. Prerequisites: Admission to candidacy; JOUR 3530. Types of magazines and editorial needs; practice in magazine article writing.
- 3650 Free Expression, Mass Media, and the American Public.** Three credits. (Same as EMC/RIM 3650.) A general introduction to the issues surrounding free expression and its relationship to mass media in contemporary America. Comprehensive analysis of the history, philosophies, cases, and controls associated with freedom of expression.
- 4000 MC Internship.** One to three credits. Prerequisites: Admission to candidacy; upper-division standing; permission of the internship coordinator. Advanced students gain practical experience in a professional setting. **Note:** Total credit for internship and practicum courses cannot exceed 3 credits. Pass/Fail.
- 4210 Mass Communication and Society.** Three credits. (Same as EMC 4210.) Prerequisite: Junior standing. Theories of the process of mass communication, how media affect society, the evolution within a social and cultural context, ethical and social dimensions. Extensive reading in theory, history, and research. Media-content emphasis varies depending on instructor's expertise.
- 4250 Mass Media Law.** Three credits. (Same as EMC 4250.) Prerequisites: JOUR 1020; junior standing. Examination of legal guarantees and restrictions on the flow of information using the case study method. Focus on libel, privacy, obscenity, and the special restrictions placed on advertising, broadcasting, cable TV, and the Internet.
- 4300 Reviewing and Criticism.** Three credits. Prerequisite: Admission to candidacy or permission of instructor. Theories and practice of reviewing and criticism in the mass media. Overview of current trends in film, theatre, music, books, and other entertainment media. Practice in critical and analytical writing.
- 4440 Advanced Reporting.** Three credits. Prerequisite: Admission to candidacy. Advanced theory and practice in news reporting, emphasis on coverage of governmental affairs and other public affairs-related assignments, including an introduction to interpretive and investigative reporting techniques.
- 4660 Mass Media Research.** Three credits. (Same as EMC 4660.) Prerequisite: Junior standing. Overview of contemporary research methods, analysis, and evaluation of current research, and design and execution of a study. Emphasis on public opinion and media research.
- 4780 Media and Markets.** Three credits. Prerequisite: Junior standing. Approaches to understanding media audiences. Examines tensions between the business and public functions of media, and social and ethical conflicts related to media marketing.
- 4790 Global News and World Media Cultures.** Three credits. (Same as EMC 4790.) Prerequisite: Junior standing. Systems and philosophies associated with gathering international news and news coverage in different regions. Looks at global communication systems and ownership; examines how cultures shape news and the role of the individual in reporting news internationally. Includes discussion of development issues and role of global advertising and public relations.
- 4800 Seminar in Media Issues.** Three credits. (Same as EMC 4800.) Prerequisite: Junior standing. Examination and critical evaluation of issues relevant to the operation and functions of mass media, including their relationships to each other and to government, advertisers, consumers, and other publics. May be repeated up to 6 credits.
- 4810 Global Comparative Media Systems.** Three credits. (Same as EMC 4810.) Prerequisites: EMC/JOUR 4790 or permission of instructor and junior standing. A close comparative study of chosen media systems in regions of the world. Examines print, broadcast, entertainment, and new media in Western and Eastern Europe, Asia and the Pacific Rim Region, the Middle East, Africa, and the Americas. Media interactions with an influence on the geographic, demographic, linguistic, cultural, economic, and political structures of countries.
- 4850 Ethics and Mass Communication.** Three credits. (Same as EMC 4850.) Prerequisite: Junior standing. Examination of ethical concerns of media practitioners illuminated by study of selected current ethical issues and an overview of the cultural and philosophical basis of socially responsive mass media.
- 4900 Individual Problems in Mass Communication.** One to three credits. (Same as EMC 4900.) Prerequisites: Admission to candidacy; permission of instructor. Independent study projects or research related to media issues or professions. Pass/Fail.

## Courses in Public Relations [P R]

- 3040 Public Relations Principles.** Three credits. Practice of public relations, including its fundamental concepts and theories, historical development, and current issues.
- 3360 Public Relations Communication.** Three credits. Prerequisite: Admission to candidacy. Techniques of creating and writing, including the planning and development of corporate, public service, and other persuasive messages.
- 3380 Public Relations Publications.** Three credits. Prerequisites: Admission to candidacy; GRAF 3010. Effective print-design techniques with emphasis on organizational publications.
- 3400 Case Studies in Public Relations.** Three credits. Practical methods of handling problems in public relations with emphasis on fact-finding, planning, promoting, and evaluating.
- 4740 Public Relations Campaigns.** Three credits. Prerequisites: Admission to candidacy; P R 3360; P R 3380 or GRAF 3950; senior standing. Researching and planning public relations campaigns. An opportunity for senior-level students to synthesize and apply knowledge and skills from previous courses.

# Department of Electronic Media Communication

**Robert Spires, Chair**  
**Mass Communication 250**

**Barr, Berg, Bratten, Harris, Heinrich, Jimison, Johnson, Kalwinsky, Nichols, Norton, Oneal, Pondillo, Quarles, Woodard, Zheng**

Majors in this department work toward a Bachelor of Science degree with a major in Mass Communication and a concentration in either Photography, Electronic Media Communication, or Digital Media Communication.

Students in the Photography concentration take 36 to 40 hours of coursework in the College of Mass Communication. Students in the Electronic Media Communication concentration take 33 to 40 hours of coursework in the College of Mass Communication. Students in the Digital Media Communication concentration take 21 to 40 hours of coursework in the College of Mass Communication. A minimum of 80 hours **must** be taken outside the college with **at least** 65 hours in the liberal arts and sciences. Total university credit for individual problems, practicum, and internship courses cannot exceed six hours.

The Department of Electronic Media Communication will not accept any more than 12 semester hours of transfer credit toward either a major or minor in the department. This is a maximum number of credits that will be accepted and does not constitute a guarantee that each student desiring to transfer up to 12 semester hours into the program will be granted credit for all transfer hours. Each case will be judged on an individual basis.

Transfer credit will not be granted for any course taken at a non-accredited institution. Transfer credit **will** normally be granted for theory/concept courses such as "Understanding Mass Media" if the credit comes from an accredited institution of higher education. Transfer credit **will not** normally be granted for production courses taken at other institutions with the possible exception of a basic course in audio production. No transfer credit will be awarded for any production course taken at an institution not accredited by the Accrediting Council on Education in Journalism and Mass Communication. For production courses taken at an ACEJMC-accredited institution, transfer credit may be awarded on a case-by-case basis.

Further information on departmental procedures for awarding transfer credit is available from the department.

All students in the Department of Electronic Media Communication are required to complete one 18-hour minor in the liberal arts and sciences and may be required to complete a second minor depending upon the area of emphasis. Students in the Electronic Media Communication and Photography concentrations may not minor in any area of the College of Mass Communication.

All sequences in the Department of Electronic Media Communication require admission to candidacy upon completion of 45 semester hours of university-level coursework. Specific requirements are listed below by sequence. Most upper-division courses in the Department have admission to EMC candidacy as a prerequisite.

**Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 60–63.**

## Concentration: Photography

The Photography program integrates technical competence and visual awareness. Experiences promote personal and professional growth toward careers in photography and media photography.

In addition to the core competencies outlined below, all Photography students take a two-dimensional design course in the Art Department.

## Admission to Candidacy

To be admitted to candidacy in the Photography concentration, the student must meet the following requirements:

- 45 hours completed before applying for candidacy
- Grade of C (2.00) or better in each of the following:  
 JOUR/EMC/RIM 1020  
 JOUR 2710 or equivalent writing competency (grade of B or better in ENGL 1010 and 1020)  
 ENGL 1010 and 1020
- Grade of C or better in each of the following:  
 PHOT 3040  
 PHOT 2050  
 PHOT 3110
- Minimum GPA in PHOT 2050, 3040, and 3110 of 2.50
- Minimum overall GPA in all college coursework of 2.50.

## Recommended Curriculum

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
COMM 2200 (Comm)	3	HUM 2610 (Hum/FA)	3
Natural Sciences (2 prefixes)	8	Humanities and/or	
Mathematics	3	Fine Arts (2 prefixes)	6
CSCI 1150	3	HIST 2010, 2020, or 2030	6
ART 1610	3	Social/Behavioral Sciences	
EMC/JOUR/RIM 1020	3	(2 prefixes)	6
PHOT 2050	3	PHOT 3040, 3110, 3120	9
	<b>32</b>		<b>30</b>



**Photography Required Courses**

**College Core:**

- JOUR/EMC/RIM 1020 Understanding Mass Media
- JOUR 2710 Media Writing (or equivalent writing competency)
- JOUR/EMC 4250 Mass Media Law OR
- PHOT 4190 Ethics and Law for Visual Communicators

**Required Courses:**

- PHOT 2050 Basic Black and White Photography
- PHOT 3040 History of Photography
- PHOT 3110 Intermediate Photography I
- PHOT 3120 Intermediate Photography II
- PHOT 3810 Color Photo Communication I
- PHOT 4040 Color Photo Communication II
- EMC/PHOT 4060 Photojournalism
- PHOT 4280 Editorial Photography

**Electives in Major:**

Select three courses (total no more than 7 hours):

- EMC/PHOT 3200 Still Digital Imaging
- PHOT 3580 Photography Practicum
- PHOT 4000 Photography Internship
- PHOT 4190 Ethics and Law for Visual Communicators
- PHOT 4220 Advanced Photojournalism
- PHOT 4270 Photo Illustration
- PHOT 4290 Documentary Photography

**Total hours in the college: 33-40**

**Other Requirements:**

- Minor in liberal arts or science
- ART 1610 Two-Dimensional Design
- CSCI 1150 Computer Orientation
- At least 65 semester hours in liberal arts and sciences

**Total other requirements: 80-87**

**Concentration: Electronic Media Communication**

The Electronic Media Communication program blends theoretical and “hands-on” approaches to electronic media education. In addition to the core competencies outlined on page 292, students enroll in 2410, Introduction to Electronic Media, and 3120, Sight, Sound and Motion. Students choose a specialty area that best fits their career goals. Those areas are electronic media journalism, electronic media production, electronic media management, and digital animation.

Electronic media journalism offers preparation for work in the electronic news field, reporting, and news management. Electronic media production helps prepare graduates for work in production at television stations, production and post-production houses, and corporate production settings. Studio production courses are complemented with field production coursework. Electronic media management offers preparation for work in “behind-the-scenes” areas of broadcast stations and cable systems from programming to advertising and sales, combining the business and creative aspects of electronic media. Digital animation offers preparation for work in the television and video graphics professions. The specialty area also includes photo digital imaging which is important to both the still photographer and the video animator. Students are encouraged to complete their education with internships in professional settings. Used for instruction are an electronic newsroom, a 50,000-watt FM radio station affiliated with National Public Radio, a student-operated FM station, a cable television channel, three TV studios, post-production rooms, and a 40-foot mobile production lab.

**Recommended Curriculum**

**FRESHMAN**

- ENGL 1010, 1020 (Comm) 6
- COMM 2200 (Comm) 3
- Natural Sciences (2 prefixes) 8
- CSCI 1150 3
- JOUR/EMC/RIM 1020 3
- Electives 6

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- ENGL 2020 or 2030 or HUM 2610 (Hum/FA) 3
  - HIST 2010, 2020, or 2030 6
  - Mathematics 3
  - Social/Behavioral Sciences (2 prefixes) 6
  - Humanities and/or Fine Arts (2 prefixes) 6
  - EMC 2410, 3120 6
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**Admission to Candidacy**

To be admitted to candidacy in the electronic media journalism sequence, the student must meet the following requirements:

1. 45 hours completed before applying for candidacy
2. Grade of C (2.00) or better in each of the following:  
JOUR/EMC/RIM 1020  
JOUR 2710 or equivalent writing competency (grade of B or better in ENGL 1010 and 1020)  
ENGL 1010 and 1020
3. Grade of C or better in each of the following:  
EMC 2410  
EMC 3120
4. Minimum overall GPA in all coursework of 2.50.

**Electronic Media Journalism Requirements**

**College Core:**

- JOUR/EMC/RIM 1020 Understanding Mass Media
- JOUR 2710 Media Writing (or equivalent writing competency)
- JOUR/EMC 4250 Mass Media Law (or equivalent competency)

**Department core:**

- EMC 2410 Introduction to Electronic Media
- EMC 3120 Sight, Sound, and Motion

**Specialty:**

- EMC 3410 Electronic Media News Writing
- EMC 3500 Electronic Media News Reporting and Producing
- EMC 3740 Advanced Electronic Media News Reporting and Producing

**Select one:**

- EMC 3020 Writing for the Electronic Media
- EMC 3030 Electronic Media Advertising
- EMC 3110 Radio Station Operations
- EMC 3140 Multi-Camera Producing and Directing
- EMC 3150 Single-Camera Producing and Directing
- EMC 3570 Broadcast Announcing/Performance
- EMC 4140 Electronic Media Programming
- EMC 4430 Electronic Media Management
- Mass Comm elective hours (6-13)

**Total hours in the college: 33-40**

**Other requirements:**

- Minor in liberal arts
- CSCI 1150 Computer Orientation
- At least 65 semester hours in liberal arts and sciences

**Total other requirements: 80-87**

### Admission to Candidacy

To be admitted to candidacy in the electronic media production sequence, the student must meet the following requirements:

1. 45 hours completed before applying for candidacy
2. Grade of C (2.00) or better in each of the following:  
JOUR/EMC/RIM 1020  
JOUR 2710 or equivalent writing competency (grade of B or better in ENGL 1010 and 1020)
3. Grade of C or better in each of the following:  
EMC 2410  
EMC 3120
4. Minimum overall GPA in all college coursework of 2.50.

### Electronic Media Production Requirements

#### College Core:

JOUR/EMC/RIM 1020 Understanding Mass Media  
JOUR 2710 Media Writing (or equivalent writing competency)  
JOUR/EMC 4250 Mass Media Law (or equivalent law competency)

#### Department Core:

EMC 2410 Introduction to Electronic Media  
EMC 3120 Sight, Sound, and Motion  
EMC 3130 Television Production

#### Specialty:

EMC 3140 Multi-Camera Producing and Directing OR  
EMC 3150 Single-Camera Producing and Directing  
EMC 4940 Advanced Seminar (6 hours)  
Elective hours (9-13)

**Total hours in the college: 33-40**

#### Other Requirements:

Minor in liberal arts  
CSCI 1150 Computer Orientation  
At least 65 semester hours in liberal arts and sciences

**Total other requirements: 80-84**

### Admission to Candidacy

To be admitted to candidacy in the electronic media management sequence, the student must meet the following requirements:

1. 45 hours completed before applying for candidacy
2. Grade of C (2.00) or better in each of the following:  
JOUR/EMC/RIM 1020  
JOUR 2710 or equivalent writing competency (grade of B or better in ENGL 1010 and 1020)
3. Grade of C or better in each of the following:  
EMC 2410  
EMC 3120
4. Minimum overall GPA in all college coursework of 2.50.

### Electronic Media Management Requirements

#### College Core:

JOUR/EMC 1020 Understanding Mass Media  
JOUR 2710 Media Writing (or equivalent writing competency)  
JOUR/EMC 4250 Mass Media Law (or equivalent law competency)

#### Department Core:

EMC 2410 Introduction to Electronic Media  
EMC 3120 Sight, Sound, and Motion

#### Specialty:

EMC 3030 Electronic Media Advertising  
EMC 3110 Radio Station Operations  
EMC 4010 Electronic Media Sales

EMC 4140 Electronic Media Programming  
EMC 4430 Electronic Media Management  
Major electives (minimum 3, maximum 10)

**Total hours in the college: 33-40**

#### Other Requirements:

Minor in liberal arts  
CSCI 1150 Computer Orientation  
At least 65 semester hours in liberal arts and sciences

**Total other requirements: 80-87**

### Admission to Candidacy

To be admitted to candidacy in the digital animation sequence, the student must meet the following requirements:

1. 45 hours completed before applying for candidacy
2. Grade of C (2.00) or better in each of the following:  
JOUR/EMC/RIM 1020  
JOUR 2710 or equivalent writing competency (grade of B or better in ENGL 1010 and 1020)
3. Grade of C or better in each of the following:  
ART 1610  
ART 1620  
EMC 3300  
CSCI 1150 or equivalent
4. Minimum overall GPA in all college coursework of 2.50.

### Digital Animation Requirements

#### College Core:

JOUR/EMC/RIM 1020 Understanding Mass Media  
JOUR 2710 Media Writing (or equivalent writing competency)  
JOUR/EMC 4250 Mass Media Law OR  
PHOT 4190 Ethics and Law for Visual Communicators

#### Department Core:

EMC 2410 Introduction to Electronic Media OR  
EMC 2500 Survey of New Media Communication  
EMC 3120 Sight, Sound, and Motion  
EMC 3130 Television Production

#### Specialty:

PHOT 2050 Basic Black and White Photography  
EMC/PHOT 3200 Still Digital Imaging  
EMC 3040 Electronic Graphics for Television  
EMC 3300 Introduction to Digital Animation  
EMC 3310 Intermediate Digital Animation  
EMC 4300 Advanced Digital Animation  
Electives (4 hours maximum)

**Total hours in the college: 36-40**

#### Other requirements

Required Art minor (ART 1610, 1620, 1630, 1640 + 6 hours): 18  
CSCI 1150 Computer Orientation  
At least 65 semester hours in liberal arts and sciences

**Total other requirements: 80-84**

### Concentration: Digital Media Communication

The Digital Media Communication concentration provides students with global awareness of digital media communication from societal, political, and economic perspectives; allows experiences in media design and content creation; and fosters aesthetic discrimination. The concentration empowers the student with employable skills across many digital media communication areas such as CD-ROM and DVD authoring, webmastering, information technology (IT) management, and digital media entrepreneurship.

**Recommended Curriculum****FRESHMAN**

ENGL 1010, 1020 (Comm)	6
COMM 2200 (Comm)	3
Natural Sciences (2 prefixes)	8
Mathematics	3
CSCI 1150	3
EMC/JOUR/RIM 1020	3
Elective	3

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ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
Humanities and/or Fine Arts (2 prefixes)	6
HIST 2010, 2020, or 2030	6
Social/Behavioral Sciences (2 prefixes)	6
EMC 2500	3
ART 1610	3
Elective	3

**30****Admission to Candidacy**

To be admitted to candidacy in the Digital Media Communication concentration, the student must meet the following requirements:

- 45 hours completed before applying for candidacy
- Grade of C (2.00) or better in each of the following:  
JOUR/EMC/RIM 1020  
EMC 2500
- Grade of C or better in each of the following:  
CSCI 1150  
ART 1610
- Grade of B or better in ENGL 1010 and 1020 or JOUR 2710
- Minimum overall GPA in all coursework of 2.50.

**Digital Media Communication Requirements****College Core:**

JOUR/EMC/RIM 1020 Understanding Mass Media

**Digital Media Core:**

ART 1610	Two-Dimensional Design
CSCI 1150	Computer Orientation
EMC 2500	Survey of New Media Communication
EMC 3120	Sight, Sound, and Motion
EMC 3460	Media and Messages
EMC 4460	Digital Communication Applications (6 hrs.) OR EMC 4460 Digital Communication Applications (3 hrs.) AND EMC 4000 Broadcast Internship (3 hrs.)

**Legal/Ethical Competency**

Choose one:

CSCI 3420	Social, Ethical, and Legal Implications of Computing
RIM 3700	Copyright Law
PHOT 4190	Ethics and Law for Visual Communicators
JOUR/EMC 4250	Mass Media Law
JOUR/EMC/RIM 3650	Free Expression, Mass Media, and the American Public

**Media Writing Competency**

Choose one:

JOUR 2710	Media Writing
EMC 3060	Writing for Digital Media
EMC 3020	Writing for the Electronic Media

**Management/Marketing Requirement:**

Choose one:

MGMT 3610	Principles of Management
MKT 3820	Principles of Marketing

**Specialties**

Students should choose 15 hours from one of the four specialties below to complete the Digital Media Communication concentration.

**Specialty A**

MGMT 3630	Organization Theory
MGMT 3650	New Venture Feasibility Analysis
MKT 3840	Personal Selling
MKT 3850	Promotion
MKT 3900	Direct Marketing and Electronic Commerce
MKT 3920	Entertainment Marketing
MKT 3960	Marketing Channels Management
MKT 4800	Sales Management
MKT 4850	Advanced Selling
MKT 4170	Applied Promotional Strategy

**Specialty B**

CSCI 1170	Computer Science I
CSCI 2170	Computer Science II
CSCI 3033	Computer Languages: Java
CSCI 3036	Computer Languages: Unix C-Shell Programming
CSCI 3037	Computer Languages: Visual Programming
CSCI 3110	Advanced Data Structures
CSCI 3160	Introduction to Assembly Language
CSCI 3250	Operating Systems
CSCI 4250	Computer Graphics
CSCI 4900	Selected Topics in Computer Science

**Specialty C**

P R 3360	Public Relations Communication
P R 3380	Public Relations Publications
P R 4740	Public Relations Campaigns
ADV 3480	Advertising Media Planning
ADV 4160	Advertising Copywriting
ADV 4170	Advertising Campaigns
EMC 4060	Photojournalism
EMC 4210	Mass Communication and Society
EMC 4430	Electronic Media Management
JOUR 4850	Ethics and Mass Communication
PHOT 4060	Photojournalism
PHOT 4220	Advanced Photojournalism
RIM 4200	Applied Digital Audio

**Specialty D**

GRAF 3010	Media Design and Visual Language
GRAF 3950	Microcomputer Design for Media
PHOT 3200	Still Digital Imaging
ART 3930	Multimedia Design
ART 4390	Multimedia Authoring I
ART 4400	Multimedia Authoring II
EMC 3300	Introduction to Digital Animation
EMC 3130	Television Production
EMC 4940	Advanced Seminar
EMC 4600	Electronic Multimedia Production
RIM 3010	Audio for Media (MATH 1710 is a prerequisite for RIM 3010)
RIM 4200	Applied Digital Audio

**Total hours in the college: 39****Other Requirements:**

Minor

One-hour elective

At least 65 semester hours in liberal arts and sciences

**Total other requirements: 81**

## Courses in Photo Communication [PHOT]

- 2050 Basic Black and White Photography.** Three credits. Black and white processing and printing; principles and procedures combined with theories of visual perception. Laboratory required.
- 3040 History of Photography.** Three credits. Evolution of photographic imagery from the invention through contemporary work. The movements, themes, and genres developed by individual photographers.
- 3110 Intermediate Photography I.** Three credits. Prerequisite: PHOT 2050. Further investigation into the exposure and development controls of black and white photography as a method of expression and communication. Laboratory required.
- 3120 Intermediate Photography II.** Three credits. Prerequisites: PHOT 3110 and ART 1610. A continuation of 3110. Laboratory required.
- 3200 Still Digital Imaging.** Three credits. (Same as EMC 3200.) Prerequisites: Admission to candidacy; PHOT 2050 and instructor approval; must have some working knowledge of the Macintosh computer system. Computerization of traditional film images and use of digital cameras allows student to use different software programs to manipulate photographic images. Ethics and law discussed along with techniques and hands-on analysis of this new medium.
- 3580 Photography Practicum.** One to three credits. Prerequisites: Admission to candidacy; junior standing and permission of instructor. Practical experience in an on-campus photography setting. A minimum of 75 hours work for each hour of credit. **Note:** Total university credit for internship, practicum, and individual problems courses cannot exceed 6 credits. Pass/Fail.
- 3810 Color Photo Communication I.** Three credits. Prerequisites: Admission to candidacy; ART 1610 and PHOT 3110 or consent of instructor. The making of color images using transparencies and color print materials. Laboratory required.
- 4000 Photography Internship.** One to three credits. Prerequisites: Admission to candidacy; senior standing and permission of department chair or instructor. Practical experience for advanced students in a professional setting. A minimum of 75 hours work plus other assignments will be required for each hour of credit. **Note:** Total university credit for internship, practicum, and individual problems courses cannot exceed 6 credits. Pass/Fail.
- 4040 Color Photo Communication II.** Three credits. Prerequisites: Admission to candidacy; PHOT 3040 and 3810 or consent of instructor. A continuation of 3810. Laboratory required.
- 4060 Photojournalism.** Three credits. (Same as EMC 4060.) Prerequisites: Admission to candidacy; PHOT 3120 and 3810 or consent of instructor. Principles and practices of photography, including documentary, news and feature portraiture, photo stories and essays, and photo layout. Emphasis on newspaper assignments, participation in campus publications, portfolio editing and production, and internship preparation. Laboratory required.
- 4190 Ethics and Law for Visual Communicators.** Three credits. Prerequisites: Admission to candidacy; junior status with declared major. Background in ethics and law for the visual communicator. Focus on ethical philosophies, ethics case studies, and solutions to ethical dilemmas; copyright, privacy, and libel law.
- 4220 Advanced Photojournalism.** Three credits. Prerequisites: Admission to candidacy; PHOT 4060 and/or consent of instructor. Builds on the basic information given in PHOT 4060. Advanced photographic techniques, including digital imaging, information on ethics and law as they pertain to the image maker, along with an examination of different styles of photojournalism addressed by classroom demonstration, lecture, and practical assignments. Laboratory required.
- 4270 Photo Illustration.** Three credits. Prerequisites: Admission to candidacy; PHOT 4280. Studio illustration with food, fragrance, beverage, jewelry, glass, and flatware with an emphasis on tabletop. Introduction to large-format view camera and studio lighting. Problems in advertising photography including responsibilities under truth in advertising. Laboratory required.
- 4280 Editorial Photography.** Three credits. Prerequisites: Admission to candidacy; PHOT 3040, 3120, and 3810. Editorial illustration for fashion, corporate, annual report, home, and garden with emphasis on location lighting. Exploration of various career opportunities and business practices open to the professional photographer. Laboratory required.
- 4290 Documentary Photography.** Three credits. Prerequisites: PHOT 3120 and 3810. Those students using color print material must be enrolled in or have taken PHOT 4040. Students will photograph several short-term photo essays and picture stories in addition to a long-term project in a documentary style. Research on the aspects of and photographers practicing contemporary documentary photography. Laboratory required.

## Courses in Electronic Media Communication [EMC]

- 1020 Understanding Mass Media.** Three credits. (Same as JOUR/RIM 1020.) Analysis of the content and context of the American mass media to understand how they affect individuals and society. Emphasis on practical knowledge of the workings of the media from a general perspective.
- 2030 Visual Journalism Production.** Three credits. Prerequisites: EMC/JOUR 2210 and permission of department. Students shown how to gather information with words and pictures for the field of visual journalism by completing photojournalism assignments, producing images with still and video cameras, writing cutlines and voiceovers for images, producing images, using computer software to edit images and sound, and creating presentations for print and online media.
- 2220 Television Newswriting.** Three credits. Personal computer with modem required. Introduces radio and television news reporting and writing for students who are not majoring in the electronic media sequence. How to start, develop, and polish hard news and feature news stories. Includes news ethics, media law, and the interrelationships of the various media. Uses the instructional material supplied by the CPB/Annenberg Project; draws heavily on participation from media professionals in the Nashville area.
- 2410 Introduction to Electronic Media.** Three credits. Organization, structure and function, historical development, and social aspects. Designed to give the major, as well as the non-major, a general working knowledge of broadcasting.
- 2500 Survey of New Media Communication.** Three credits. Prerequisite: Junior standing. Developing systems and methods of audio/video message delivery. Focus on the technology, regulatory



aspects, and economic impact of each system upon traditional message delivery. Guest lecturers and site visits included.

- 3000 Introduction to Motion Pictures.** Three credits. (Same as JOUR 3000.) Prerequisite: Upper-division standing. The development and role of motion pictures in America, including the history of films and filmmakers, the influence of film on American culture, and film criticism.
- 3020 Writing for the Electronic Media.** Three credits. Prerequisite: Writing competency. Techniques of creating and writing for electronic media, including radio, television, and computer-generated programming for cable systems and studio production. Consideration of program design and technical limitations of media production for specific formats. Emphasis on readability of copy, writing style, time constraints, editing, and the integration of sound with graphic images or visual information.
- 3030 Electronic Media Advertising.** Three credits. Prerequisite: EMC 2410. Principles, techniques, and methods of electronic media advertising including commercial story boards and copywriting.
- 3040 Electronic Graphics for Television.** Three credits. Prerequisites: Admission to candidacy; EMC 3130. Two-dimensional computer-generated graphics for television. Emphasis on the aesthetics and techniques for operating systems for character and graphics generation. Develop skills in the successful compositing of these graphics with live action and videotape sequences.
- 3060 Writing for Digital Media.** Three credits. Prerequisite: JOUR/EMC 1020. Fundamental principles of writing interactively for specific audiences. Encourages students to explore content development; looks at creation of meaning in the new media while providing skills in content.
- 3110 Radio Station Operations.** Three credits. Prerequisites: EMC 2410; instructor approval. Theory and techniques of sound production, recording, microphones, taping, and board equipment. Analysis of creative efforts and responsibilities in writing, production, and direction. Laboratory required.
- 3120 Sight, Sound, and Motion.** Three credits. Prerequisites: EMC 1020; writing competency; EMC 2410, 2500, or admission to RI candidacy. Production elements and technology of the electronic media industry. Creative conceptualizations; elements of composition, the production process included. Basic visual and aural technology demonstrated. Two lecture periods and a one-hour lab per week.
- 3130 Television Production.** Three credits. Prerequisite: Admission to candidacy. Introduction to the techniques. Emphasis on the function and operation of the primary tools including video, audio, and lighting to develop the student's awareness and understanding of proper studio procedure. Laboratory required.
- 3140 Multi-Camera Directing and Producing.** Three credits. Prerequisites: Admission to candidacy; EMC 3130. Focuses on the duties and responsibilities of the television director. Emphasis on actual production and directing of video material. Laboratory required.
- 3150 Single-Camera Directing and Producing.** Three credits. Prerequisites: Admission to candidacy; EMC 3130. Techniques of live/tape field production. On-location shooting of features and mini-documentaries; editing techniques, coverage, lighting, sound, and graphics.
- 3200 Still Digital Imaging.** Three credits. (Same as PHOT 3200.) Prerequisites: Admission to candidacy; PHOT 2050 and instructor approval; must have some working knowledge of the Macintosh computer system. Computerization of traditional film images and use of digital cameras allows student to use different software programs to manipulate photographic images. Ethics and law discussed along with techniques and hands-on analysis of this new medium.
- 3300 Introduction to Digital Animation.** Three credits. Prerequisites: Admission to candidacy; ART 1610 or 1620; CSCI 1150; or permission of instructor. Two- and three-dimensional computer data and animation. Emphasis on the aesthetics and techniques for building, lighting, assigning surface attributes, and rendering of three-dimensional models to be used in designing and producing three-dimensional computer-generated animations. Includes a broad survey of the process and techniques involved with creating electronic media quality three-dimensional animations and techniques and aesthetics incorporated into traditional methods of animations for contrast and comparison.
- 3310 Intermediate Digital Animation.** Three credits. Prerequisites: Admission to candidacy; EMC 3300. Continuation of 3300 for the development of two- and three-dimensional computer data and animation. Further understanding of aesthetics and techniques for building, lighting, assigning surface attributes, and rendering of three-dimensional models, to be used in designing and producing three-dimensional computer-generated animations. Introduction to the creation and modification of customized lighting models and the development of customized surface and bump-mapped textures as well as the techniques involved in the compositing of live action video tape, sound, and computer-generated images.
- 3320 Introduction to Digital Compositing.** Three credits. Prerequisites: ART 1610 and CSCI 1150. History, techniques, and applications of compositing in the areas of film, video, and multimedia production. Broad survey of process and techniques involved with creating composites. Techniques and aesthetics incorporated into traditional methods of compositing for contrast and comparison. Frequent review and discussion of current work from industry will occur in the form of videotape and DVD presentations.
- 3410 Electronic Media News Writing.** Three credits. Prerequisite: Admission to candidacy. Stresses reporting, writing, and presenting radio news. The history, philosophy, and regulation of electronic media news. Laboratory required.
- 3420 Corporate Video.** Three credits. Prerequisite: EMC 3120 or permission of instructor. Focuses on the techniques and applications of television production for business communications and video publishing. Emphasis on writing, program design and objectives, planning and production of television materials. Laboratory required.
- 3460 Media and Messages.** Three credits. Communication situations, communication needs analysis, and the application of media in solving communication problems. Involves theoretical and practical application of mass communication theories.
- 3499 Electronic Media News Videography and Editing.** Three credits. Prerequisite: EMC 3410. Essential production techniques and applied technical skills necessary to arrange, shoot, edit, and produce a television news story in the field. All facets of electronic media news field production covered, including camera work, lighting, audio, and editing.

- 3500 Electronic Media News Reporting and Producing.** Three credits. Prerequisites: Admission to candidacy; EMC 3410. Theory and practice in the gathering, editing, and writing of news for radio and television. Attention given to on-the-air presentation. Laboratory required.
- 3510 Mass Media and American Culture.** Three credits. (Same as JOUR 3510.) Prerequisite: Upper-division standing. Development of American journalism and the mass media from Colonial times to the present, including the role and influence of mass media on American culture, technical advances, and contributions of individual personalities.
- 3570 Broadcast Announcing/Performance.** Three credits. Prerequisites: Admission to candidacy; COMM 2150. Responsibilities and skills required of the individual performer in the preparing, announcing, and narrating of various types of materials for television and radio.
- 3580 Broadcast Practicum.** One to three credits. Prerequisites: Admission to candidacy; junior standing; permission of instructor. Practical experience in an on-campus mass communication setting within the College of Mass Communication. A minimum of 75 hours of work will be required for each hour of credit. **Note:** Total university credit for practicum, individual problems, and internship courses cannot exceed 6 credits.
- 3650 Free Expression, Mass Media, and the American Public.** Three credits. (Same as JOUR/RIM 3650.) A general introduction to the issues surrounding free expression and its relationship to mass media in contemporary America. A comprehensive analysis of the history, philosophies, cases, and controls associated with freedom of expression.
- 3740 Advanced Electronic Media News Reporting and Producing.** Three credits. Prerequisites: Admission to candidacy; EMC 3410 and 3500. Theory and practice of television journalism, including use of electronic news-gathering equipment, evaluating and processing news for broadcast, and delivery of television news. Laboratory required.
- 4000 Broadcast Internship.** One to three credits. Prerequisites: Admission to candidacy; senior standing; permission of sequence internship coordinator or instructor. Practical experience for advanced students in a professional setting. A minimum of 15 hours of work per week plus other assignments will be required. **Note:** Total university credit for internship, practicum, and individual problems courses cannot exceed 6 credits. Pass/Fail. Can be repeated with different employer for one to three credits with permission of instructor.
- 4010 Electronic Media Sales.** Three credits. Prerequisite: EMC 2410. Theories of marketing and selling the intangible products of the electronic media industries. The fundamentals of positioning, theory and use of ratings, and local, regional, and national buying and selling strategies presented.
- 4020 Advanced Scriptwriting.** Three credits. Prerequisites: EMC 1020; writing competency; EMC 3020 or permission of instructor. Scriptwriting guidelines, character development, plot design, and creation of storylines for contemporary television genre programs. Writing of original scripts conforming to the genre taught required. Topics will vary by offering. May be repeated for up to 9 hours credit for different topics. Laboratory required.
- 4060 Photojournalism.** Three credits. (Same as PHOT 4060.) Prerequisites: Admission to candidacy; PHOT 3120 and 3810 or consent of instructor. Principles and practices of photography, including documentary, news and feature portraiture, photo stories and essays, and photo layout. Emphasis on newspaper assignments, participation in campus publications, portfolio editing and production, and internship preparation. Laboratory required.
- 4140 Electronic Media Programming.** Three credits. Prerequisite: EMC 2410. Development of techniques, program organization, audience analysis, recording, and directing through projects. Provides practical conceptual knowledge of the problems and procedures followed in planning and producing programming. Laboratory required.
- 4150 Advanced Television Production.** Three credits. Prerequisite: EMC 3140. Preparation and development of scripted and unscripted television programming; principles and aesthetics of production and directing.
- 4210 Mass Communication and Society.** Three credits. (Same as JOUR 4210.) Prerequisite: Junior standing. Theories of the process of mass communication, how media affect society, the evolution within a social and cultural context, ethical and social dimensions. Extensive reading in theory, history, and research. Media-content emphasis varies depending on instructor's expertise.
- 4250 Mass Media Law.** Three credits. (Same as JOUR 4250.) Prerequisites: EMC 1020; junior standing. Examination of legal guarantees and restrictions on the flow of information using the case study method. Focus on libel, privacy, obscenity, and the special restrictions placed on advertising, broadcasting, cable television, and the Internet.
- 4300 Advanced Digital Animation.** Three credits. Prerequisites: Admission to candidacy; EMC 3310. Continuation of 3310 for the development of two- and three-dimensional computer data and animation. Further understanding of the aesthetics and techniques for visually communicating information for television journalism, advertising, and entertainment. Serves as a final classroom laboratory in preparation for the required internship and offers greater understanding of complete animation production and more complex methods for the integration of composited computer-generated images with live action video tape and sound.
- 4430 Electronic Media Management.** Three credits. Prerequisite: EMC 2410. An analysis of the problems involved in planning, building, and operating an electronic media facility including personnel, internal control systems, business ethics, community relations, sales, and promotion. Case study method is involved.
- 4460 Digital Communication Applications.** Three to six credits. Prerequisite: EMC 3060 or permission of instructor. Solving communication problems through digital communication applications. Involves working with outside clients, forming media companies, and the production of mediated materials. May be repeated for a total of 6 credit hours.
- 4580 Disk-Based Audio Post-Production.** Three credits. (Same as RIM 4580.) Prerequisites: RI majors - RIM/MUTH 4190, RIM 4200, RIM 4400, and EMC 3120; EMC majors - EMC 3120 and 3300; all others - permission of instructor. An advanced, hands-on approach to the principles of tapeless digital recording on a variety of digital platforms. In-depth discussions of disk-based digital audio, synchronization, audio for video and film, and multi-channel sound mixing techniques. Focuses on use of digital audio workstations in an audio post-production environment. Laboratory required.

- 4610 Visual Communication for the Print Media.** Three credits. Increases visual literacy; provides knowledge of our visual heritage, seeks to enrich the judgment of those responsible for making decisions about the use and display of photographs for publication. Also includes photographic processes and handling of pictures for publication among particular audiences.
- 4660 Mass Media Research.** Three credits. (Same as JOUR 4660.) Prerequisites: Admission to candidacy; junior standing. Overview of contemporary research methods, analysis, and evaluation of current research, and design and execution of a study. Emphasis on public opinion and media research.
- 4790 International Communication.** Three credits. (Same as JOUR 4790.) Prerequisite: Junior standing. The gathering of world news and the systems and philosophies associated with super-national communication. Satellite television, international political communications, advertising, and national development *vis-a-vis* press systems.
- 4800 Seminar in Media Issues.** Three credits. (Same as JOUR 4800.) Prerequisite: Junior standing. Examination and critical evaluation of issues relevant to the operation and functions of mass media including their relationships to each other and to government, advertisers, consumers, and other "publics." Can repeat for 6 hours with different topic.
- 4810 Global Comparative Media Systems.** Three credits. (Same as JOUR 4810.) Prerequisites: JOUR/EMC 4790 or permission of instructor and junior standing. A close comparative study of chosen media systems in regions of the world. Examines print, broadcast, entertainment, and new media in Western and Eastern Europe, Asia and the Pacific Rim Region, the Middle East, Africa, and the Americas. Media interactions with an influence on the geographic, demographic, linguistic, cultural, economic, and political structures of countries.
- 4850 Ethics and Mass Communication.** Three credits. (Same as JOUR 4850.) Prerequisite: Junior standing. Examination of ethical concerns of media practitioners, illuminated by study of selected current ethical issues and an overview of the cultural and philosophical bases of a socially responsive mass media.
- 4900 Individual Problems in Mass Communication.** One to three credits. (Same as JOUR 4900.) Prerequisite: Admission to candidacy. Provides opportunities for individually designed problems, work experiences, or research projects related to the development of professional competencies in a major field of study. Requires approval of instructor. **Note:** Total university credit for individual problems, practicum, and internship courses cannot exceed 6 credits. Can be repeated for 1 to 3 credits with permission of instructor.
- 4910 Advanced Seminar - Digital Imaging.** Three credits. Prerequisites: Admission to candidacy; permission of department only. Practical experience in the conceptualization, pre-production preparation, and production of digital imaging materials. Integration of theory and skills from other EMC/RIM courses. Advanced compositing techniques, particle generation, and advanced modeling techniques are probable topics. Topics will vary by semester offering.
- 4920 Advanced Seminar - Electronic Media Journalism.** Three credits. Prerequisites: Admission to candidacy; permission of department only. Practical experience in the conceptualization, preparation, and production of a specific news program format.

Integration of theory and skills from other EMC/RIM courses. Documentary, political analysis, sports, and newscasting are probable topics. Topics will vary by semester offering. Can be repeated for 6 hours with different topic.

- 4930 Advanced Seminar - Electronic Media Management.** Three credits. Prerequisites: Admission to candidacy; permission of department only. Practical experience in the conceptualization, preparation, and management of a specific program format. Integration of theory and skills from other EMC/RIM courses. Programming, station operations, and sales are probable topics. Topics will vary by semester offering. Can be repeated for 6 hours with different topic.

- 4940 Advanced Seminar - Electronic Media Production.** Three credits. Prerequisites: Admission to candidacy; permission of department only. Practical experience in the conceptualization, pre-production preparation, and production of a specific program format. Integration of theory and skills from other EMC/RIM courses. Sports, music, drama, and editing are probable topics. Topics will vary by semester offering. Can be repeated for 6 hours with different topic.



# Department of Recording Industry

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**Christian Haseleu, Chair**  
Bragg Mass Communication 251

**Alleyne, Akins, Barnet, Collier, Fischer, Fishell, Hill, Hull, Hutchison, Keel, Macy, Mitchell, Mulraine, O'Brien, Pfeifer, Piekarski, Tomlinson, B. Wood, M. Wood**

The recording industry is one of the largest of all the entertainment industries, and one of its major centers is Nashville. The purpose of this program is to prepare students to seek entry- and middle-level positions for virtually any phase of the industry from marketing of recordings to audio engineering. Internships in many phases of the industry are available for selected students. The program is designed with advice from the National Academy of Recording Arts and Sciences, the National Association of Recording Merchandisers, the Society of Professional Audio Recording Services, and numerous industry professionals and executives.

The department offers the Bachelor of Science degree with a major in Recording Industry and a concentration in either Music Business or Production and Technology.

Audio engineering and music production are taught in three departmental studios, a MIDI lab, a digital audio lab, and a post-production lab located on campus. Electronic music/MIDI courses are offered cooperatively with the School of Music.

The department offers a minor in Recording Industry for Music majors in the Music Industry concentration and other interested students. The department also offers a minor in Entertainment Technology in cooperation with the Speech and Theatre Department.

**In all curricular listings, (Area \_\_ ) refers to the General Studies requirements as outlined on pages 59-61.**

## Transfer Credit Policy

A maximum of 9 credit hours may be transferred into the Recording Industry major. Transfer credit may be given for RIM 3000, 3010, and 3600 only. Credit for RIM 3010 may be obtained by passing a Transfer Evaluation test with a grade of C or better. Transfer students wishing to take a Transfer Evaluation test for RIM 3010 should notify the departmental office.

## General Studies Requirements for Recording Industry Majors

For General Studies Area I-B, Recording Industry majors must take COMM 2200 or F L 1010. JOUR/RATV 1020 will not meet this requirement. For General Studies Area IV-B, Recording Industry majors must take MATH 1710 or a higher level math. MATH 1010 will not meet this requirement.

## Computer Literacy Requirements for Recording Industry Majors

To meet the computer literacy requirement, Recording Industry majors should take CSCI 1150 or INFS 2200 or minor in Computer Science. CSCI 1000 will not meet this requirement. **NOTE:** INFS 2200 is required for Business Administration minors.

## Admission to Candidacy

Students are required to be admitted to candidacy to earn a degree as a Recording Industry major in the College of Mass Communication and as a prerequisite to enrollment in most upper-division courses within the college. To be admitted to candidacy, a student must have

1. completed 45 hours;
2. received a grade of C (2.00) or better in the following courses:  
ENGL 1010 Expository Writing  
ENGL 1020 Research and Argumentative Writing  
MATH 1710 College Algebra (or higher level math, but not MATH 1010);
3. received a B or better in both ENGL 1010 Expository Writing and ENGL 1020 Research and Argumentative Writing or received a grade of C or better in JOUR 2710 Media Writing;
4. received a grade of C or better as well as a minimum 2.5 grade point average in the following courses:  
JOUR/RATV 1020 Understanding Mass Media  
RIM 3000 History of the Recording Industry  
RIM 3010 Audio for Media  
RIM 3600 Survey of the Recording Industry
4. Received a minimum overall grade point average in all coursework of 2.50.

Applications for admission to candidacy are available at the College of Mass Communication office and should be submitted by students during the semester in which they will have completed the foregoing requirements. Provisional candidacy will be granted for registration purposes and will be official pending successful completion of enrolled courses.

Students may not take other RIM courses, with the exception of RIM 1230 and RIM 3650, and will not be admitted to the Recording Industry major until they have successfully completed admission to candidacy.

## Grading Policy

Students majoring in Recording Industry must receive a grade of C or better in all Recording Industry courses in order for them to count toward graduation. A minimum grade of C is required in all classes that are prerequisite to Recording Industry classes. Recording Industry majors may be required to take an exit examination in order to graduate.



## Major in Recording Industry

In addition to 42 hours of General Studies requirements, a student must take 42 hours of Recording Industry courses with a concentration in either Music Business or Production and Technology. Recording Industry majors complete two minors. See required minors for Recording Industry majors below for information on the available minors.

### Concentration: Music Business

#### All majors are required to take:

RIM	3000	History of the Recording Industry
RIM	3010	Audio for Media
RIM	3600	Survey of the Recording Industry
RIM	3700	Copyright Law
RIM	4700	Legal Problems of the Recording Industry

#### Sub-core:

RIM	3720	Artist Management
RIM	3900	Music Publishing
RIM	4620	Marketing of Recordings

#### Electives - students must choose 18 hours from among the following:

RIM	3020	Commercial Songwriting
RIM	3100	Music as Popular Culture
RIM	3500	RIM Lecture Series
RIM	3580	RIM Practicum*
RIM	3650	Free Expression, Mass Media, and the American Public
RIM	3770	Publicity in the Recording Industry
RIM	3890	International Recording Industry
RIM	4000	Recording Industry Internship: Business*
RIM	4320	Concert Promotion
RIM	4630	Recording Industry Research
RIM	4720	Record Retail Operations
RIM	4730	The A&R Function
RIM	4740	Studio Administration
RIM	4800	Understanding the Nashville Music Business - Past and Future
RIM	4810	Topics in Recording Industry
RIM	4820	Record Label Operations
RIM	4900	Individual Problems in the Recording Industry

#### Of the 18 hours of electives, up to 3 credit hours may be selected from the following courses:

MUHL	3670	History of Popular Music in America
ENGL	3530	Legal Writing and Research
ENGL	3700	British Popular Culture
SOC	4170	The Social Context of Southern Music

\*No more than 6 hours total are allowed toward the major from any combination of RIM 3580, 4000, or 4010.

**NOTE:** Students electing the Music Business concentration may take up to 9 semester hours of their electives from Production and Technology.

#### Summary of Requirements for Music Business Concentration:

Recording Industry core:	15
Music Business sub-core:	9
Music Business electives:	18
<b>Total hours in the major:</b>	<b>42</b>

### Concentration: Production and Technology

#### All majors are required to take:

RIM	3000	History of the Recording Industry
RIM	3010	Audio for Media
RIM	3600	Survey of the Recording Industry
RIM	3700	Copyright Law
RIM	4700	Legal Problems of the Recording Industry

#### Sub-core:

RIM	1230	Musicianship for Engineers
RIM	4190	Principles and Practices of Electronic Music
RIM	4200	Applied Digital Audio
RIM	4400	Techniques of Recording

#### Electives - students must choose 15 hours from among the following:

PHYS	1600	Physics of Music
RIM	3020	Commercial Songwriting
RIM	3450	Advanced Musicianship for Engineers
RIM	3500	Lecture Series
RIM	3580	RIM Practicum*
RIM	3650	Free Expression, Mass Media, and the American Public
RIM	4010	Recording Industry Internship: Technology*
RIM	4290	Electronic Music II
RIM	4440	Critical Listening
RIM	4560	Concepts and Development of Multichannel Audio
RIM	4570	The Art of Soundtrack Design
RIM	4580	Disk-Based Audio Post-Production
RIM	4590	MIDI Studio Techniques
RIM	4600	Electronic Multimedia Production
RIM	4650	Advanced Technology of Recording
RIM	4660	Advanced Music Engineering
RIM	4670	Studio Production
RIM	4740	Studio Administration
RIM	4810	Topics in Recording Industry
RIM	4830	Recording Studio Maintenance
RIM	4900	Individual Problems in the Recording Industry
RIM	4910	Advanced Production Seminar

\*No more than 6 hours total are allowed toward the major from any combination of RIM 3580, 4000, or 4010.

**NOTE:** Students electing the Production and Technology concentration may select up to 9 semester hours of their electives from Music Business.

#### Summary of Requirements for Production and Technology Concentration:

Recording Industry core:	15
Production and Technology sub-core:	12
Production and Technology electives:	15
<b>Total hours in the Major:</b>	<b>42</b>

#### Recommended pattern for Recording Industry Majors

FRESHMAN		SOPHOMORE	
English (Area I-A)	6	English (Area II-A)	6
BIOL 1030, PSCI 1030 or GEOL 1030 (Area IV-A)	8	HIST 2010, 2020 or HIST 2030 (Area III-A)	6
JOUR/RATV 1020	3	PHED (Area V)	2
MATH 1710 (Area IV-B)	3	RIM 3000, 3010, 3600	9
F L 1010 or COMM 2200 (Area I-B)	3	General Studies (Area II-B)	3
PHED (Area V)	2	Minor Requirements	6
PSY 1410 or SOC 1010 (Area III-B)	3		<b>32</b>
CSCI 1150 or INFS 2200	3		
Minor Requirement	3		
	<b>34</b>		

**NOTE:** Students should see their advisors to develop their individual schedules. Certain prerequisites and sequences in particular major concentration and minors require special attention. For example, the sequence of courses such as RIM 1230 for Production and Technology concentration majors, MUTH 1110 and 1120 for Music Industry minors, and ACTG 2110 and 2120 for Business Administration minors must be considered.

### Required Minors for Recording Industry Majors

All Recording Industry majors are required to complete two minors. The minors must be selected from the following: American Music Studies, Business Administration, Computer Science, Electro-Acoustics, Electronics, Entertainment Technology, Entrepreneurship, Film Studies, Marketing, Mass Communication, Music, Music Industry, and Theatrical Design.

Note that the selection of minors will require diversity of coursework. Therefore:

Recording Industry majors with a Music Business concentration are required to select one of their two minors from the following: Business Administration, Marketing, or Entrepreneurship. The second minor must be from outside the Jennings A. Jones College of Business and must be chosen from among the following: Computer Science, Electro-Acoustics, Electronics, Entertainment Technology, Film Studies, Mass Communication, Music, American Music Studies, Music Industry, and Theatrical Design. Courses may not be used to satisfy requirements for more than one minor or for a minor and the major.

Recording Industry majors with a Production and Technology concentration must choose minors from among the following: Business Administration, Computer Science, Electro-Acoustics, Electronics, Entertainment Technology, Entrepreneurship, Film Studies, Marketing, Mass Communication, Music, American Music Studies, Music Industry, and Theatrical Design. Note that only one of the two can be from Entertainment Technology and Theatrical Design. Only one of the two can be from Music, American Music Studies, and Music Industry. Only one of the two can be from Business Administration, Marketing, and Entrepreneurship. Only one of the two can be from Electronics and Electro-Acoustics.

Courses may not be used to satisfy requirements for more than one minor or for a minor and the major.

All minors require a minimum 2.00 GPA in the minor coursework to graduate.

Students who intend to pursue an M.B.A. after graduation should select the Business Administration minor as one of their minors.

Requirements for the minors are listed below.

#### American Music Studies Minor

##### Required courses (12-14 hours):

MUTH 1110 Theory and Aural Skills I AND  
 MUTH 1120 Theory and Aural Skills II OR  
     MUTH 3160 Jazz Theory I AND  
     MUTH 3170 Jazz Theory II  
 AND  
 ANTH 2010 Cultural Anthropology OR  
     GEOG 4360 Cultural Geography  
 AND  
 MUHL 4660 American Music

#### Guided electives (9 hours) to be selected from the following:

MUHL 3150 Musics of the South  
 MUHL 3670 History of Popular Music in America  
 MUHL 4130 Survey of World Music  
 MUHL 4530 History of Jazz  
 MUHL 4650 Twentieth Century Music  
 RIM 3000 History of the Recording Industry  
 RIM 3100 Music as Popular Culture  
 SOC 4170 The Social Context of Southern Music

**Total hours in American Music Studies minor: 21/23 hours**

#### Business Administration Minor

##### Required Courses in Minor:

ACTG 2110 Principles of Accounting I  
 ACTG 2120 Principles of Accounting II OR  
     ACTG 3000 Survey of Accounting for General Business  
 INFS 2200 Introduction to Microcomputing OR  
     INFS 3100 Principles of Management Information Systems  
 FIN 3000 Principles of Financial Management  
 BLAW 3400 Legal Environment of Business  
 MGMT 3610 Principles of Management  
 MKT 3820 Principles of Marketing

**Total hours in Business Administration minor: 18/21**

**NOTES:** The Business Administration minor requires a 2.00 GPA on all coursework in the minor in order to graduate. Upper-division courses in Business may not be taken until the student is a junior.

#### Computer Science Minor

##### Required Courses in Minor

CSCI 1170 Computer Science I  
 CSCI 2170 Computer Science II  
 CSCI 3160 Introduction to Assembly Language  
 Plus 7 additional hours of elective coursework in computer science.

**Total hours in Computer Science minor: 18**

**NOTES:** Selection of upper-division Computer Science electives must be approved by the Computer Science minor advisor. Courses listed as Computer Science service courses and CSCI 3420 do not count toward a minor in Computer Science. Credit in secondary computer languages is limited to three hours for the minor in Computer Science. Recording Industry majors electing the Computer Science minor are required to maintain a 2.00 GPA on all coursework in the minor in order to graduate.

#### Electro-Acoustics Minor

##### Required Courses in Minor

MATH 1910 Calculus I  
 PHYS 1600 Physics of Music\*  
 ET 3610 Introduction to Electricity and Electronics  
 PHYS 3310 Concepts and Applications of Digital Electronics  
 PHYS 3350 Concepts and Applications of Analog Electronics

##### Elective Courses in Minor (choose one):

PHYS 3000 Acoustics and Signal Analysis  
 ET 3620 Digital Circuits Fundamentals  
 ET 3660 Communication Electronics

**Total hours in Electro-Acoustics minor: 21/22**

\*Course may not be taken to satisfy both major and minor requirements.

**NOTES:** Recording Industry majors electing the Electro-Acoustics minor are required to maintain a 2.00 GPA on all coursework in the minor in order to graduate.

## Electronics Minor

### Required Courses in Minor

ET 3610*	Introduction to Electricity and Electronics
ET 3620	Digital Circuits Fundamentals
ET 3630	Electronics I

### Elective Courses in Minor (choose two):

ET 3640	Digital Circuits Design
ET 3650	Introduction to Microprocessors
ET 3660	Communication Electronics
ET 3670	Computer-Assisted Printed Circuit Board Design
ET 4600	Programmable Logic Controllers
ET 4610	Instrumentation and Controls
ET 4630	Local Area Networks
ET 4640	Industrial Electricity
ET 4660	Microprocessor Interfacing
ET 4670	Microprocessor Design

### Total hours in Electronics minor: 18/20

\*Or ET 3600 - Prerequisite: MATH 1910

**NOTES:** Recording Industry majors electing the Electronics minor are required to maintain a 2.00 GPA on all coursework in the minor in order to graduate.

Minors in Electronics are urged to be aware of course prerequisites and co-requisites.

The prerequisite for ET 3610 is MATH 1710 or MATH 1730.

As a prerequisite, ET 3610 replaces ET 3600 for students minoring in Electronics.

## Entertainment Technology Minor

This minor is to consist of 18 hours of coursework. The courses must be selected from the approved list below. Courses taken to meet major field of study requirements or electives or other minor requirements or electives can not be counted toward this minor.

### Select 18 hours from the list below:

ETIS 1310	Basic Technical Drawing and Sketching
ET 3610	Introduction to Electricity and Electronics
ET 4640	Industrial Electricity
THEA 2110	Stagecraft
THEA 3000	Sound Design for Arts and Entertainment
THEA 3100	Make-Up Techniques for Performers
THEA 3200	Introduction to Costume for Arts and Entertainment
THEA 3400	Introduction to Lighting for Arts and Entertainment
THEA 4000	Advanced Sound Design for Arts and Entertainment
THEA 4100	Special Effects Make-up
THEA 4200	Costume Technology and Production
THEA 4220	Costume Design for Arts and Entertainment
THEA 4390	Topics in Scenography
THEA 4400	Intermediate Lighting for Arts and Entertainment
RIM 1230	Musicianship for Engineers
RIM 3010	Audio for Media (not for RI majors)
RIM 3450	Advanced Musicianship for Engineers
RIM 4190	Principles and Practices of Electronic Music (not for RI Production and Technology majors)
RIM 4200	Applied Digital Audio
RIM 4290	Electronic Music II
RIM 4320	Concert Promotion
RIM 4400	Techniques of Recording
RIM 4440	Critical Listening
RIM 4560	Concepts and Development of Multichannel Audio
RIM 4570	The Art of Soundtrack Design
RIM/	
RATV 4580	Disk-Based Audio Post-Production
RIM 4590	MIDI Studio Techniques
RIM/	
RATV 4600	Electronic Multimedia Production

RIM 4650	Advanced Technology of Recording
RIM 4660	Advanced Music Engineering
RIM 4670	Studio Production
RIM 4910	Advanced Production Seminar
RATV 3040	Electronic Graphics for Television
RATV 3120	Sight, Sound, and Motion
RATV 3130	Television Production
RATV 3140	Multi-Camera Directing and Producing
RATV 3150	Single-Camera Directing and Producing
RATV 3300	Introduction to Digital Animation
RATV 3310	Intermediate Digital Animation
RATV 3420	Corporate Video
RATV 4940	Advanced Seminar - Electronic Media Production
PHOT 2050	Basic Black and White Photography
PHOT 3200	Digital Imaging in Photography
PHYS 1600	Physics of Music

### Total hours in Entertainment Technology minor: 18

**NOTES:** Recording Industry majors electing the Entertainment Technology minor are required to maintain a 2.00 GPA on all coursework in the minor in order to graduate.

Minors in Entertainment Technology are urged to be aware of course prerequisites and co-requisites.

## Entrepreneurship Minor

### Required Courses in Minor:

BMOM 1400	Introduction to Business
BMOM 2900	Entrepreneurship
ACTG 3000	Survey of Accounting for General Business
FIN 3000	Principles of Financial Management
MGMT 3610	Principles of Management
MKT 3820	Principles of Marketing
MGMT 4920	Small Business Management

### Total Hours in Entrepreneurship minor: 21

**Note:** Recording Industry majors electing the Entrepreneurship minor are required to maintain a 2.00 GPA on all coursework in the minor in order to graduate.

Upper-division courses in Entrepreneurship may not be taken until the student is a junior.

## Film Studies Minor

### Select 18 hours from the list below:

ART 4940	Special Studies in Art History: Film as Art
ENGL 3080	Women and Film
ENGL 3650	Literature and Film
ENGL 3660	Film Genre
ENGL 3670	Film History
ENGL 4650	Film Theory and Criticism
ENGL 4860	Special Topics in Film Studies
FREN 4020	Topics in French Film
JOUR/	
RATV 3000	Introduction to Motion Pictures
P S 3100	Politics and Film
RIM 4570	The Art of Soundtrack Design
SOC 4200	African-American Film, Theatre, and Television Images
PHIL 3600	Philosophy and Film

### Total hours in Film Studies minor: 18

**NOTES:** No more than 9 hours may be taken in any single department. Minors in Film Studies must take courses from at least three of the nine participating departments.

Recording Industry majors electing the Film Studies minor are required to maintain a 2.00 GPA on all coursework in the minor in order to graduate.

## Marketing Minor

### Required Courses in Minor:

MKT 3820 Principles of Marketing  
 ACTG 2110 Principles of Accounting I OR  
 ACTG 3000 Survey of Accounting for General Business  
 BLAW 3400 Legal Environment of Business OR  
 BLAW 3450 Unfair Trade Practices and Consumer Protection  
 Plus 12 hours of marketing electives

### Total hours in Marketing minor: 21

**NOTES:** Recording Industry majors electing the Marketing minor are required to maintain a 2.00 GPA on all coursework in the minor in order to graduate.

Transfer students minoring in Marketing must complete a minimum of 9 of the 15 hours of coursework in marketing at Middle Tennessee State University.

Upper-division courses in Marketing may not be taken until the student is a junior.

## Mass Communication Minor

### Required Courses in Minor

JOUR/  
 RATV 1020 Understanding Mass Media  
 Plus 15 additional hours of elective coursework in the College of Mass Communication.

### Total hours in Mass Communication minor: 18

**NOTES:** Recording Industry majors electing the Mass Communication minor must take 9 hours of upper-division mass communication electives.

Applied credit in this minor for Recording Industry majors must be from courses in the College of Mass Communication outside of Recording Industry.

Recording Industry majors electing the Mass Communication minor may not apply JOUR/RATV 3580 or JOUR/RATV 4000 in the Mass Communication minor.

Recording Industry majors electing the Mass Communication minor are required to maintain a 2.00 GPA on all coursework in the minor in order to graduate.

## Music Minor

### Required Courses in Minor

MUTH 1110 Theory and Aural Skills I  
 MUTH 1120 Theory and Aural Skills II  
 4 semesters of private instruction in one field  
 2 semesters of ensemble participation

### Required Courses in Minor (choose one option):

#### Option #1

MUS 1030 Introduction to Music

#### And one course chosen from:

MUHL 3120 Masterworks of Classical Music  
 MUHL 3670 History of Popular Music in America  
 MUHL 4130 Survey of World Music  
 MUHL 4530 History of Jazz

#### Option #2

MUHL 1610 Music History I  
 MUHL 1620 Music History II  
 MUHL 2610 Music History III

### Total hours in Music minor: 20-23

**NOTES:** The minor in Music does not lead to teacher licensure. Recording Industry majors electing the Music minor are required to maintain a 2.00 GPA on all coursework in the minor in order to graduate.

## Music Industry Minor

### Required Courses in Minor:

MUTH 1110 Theory and Aural Skills I  
 MUTH 1120 Theory and Aural Skills II

### Plus 12 hours chosen from:

MUS 1030 Introduction to Music  
 MUHL 1610 Music History I  
 MUHL 3670 History of Popular Music in America\*  
 MUTH 4290 Electronic Music II\*  
 MUTH 2110 Theory and Aural Skills III  
 MUTH 2120 Theory and Aural Skills IV  
 MUTH 3020 Commercial Songwriting  
 MUTH 4130 Instrumentation  
 MUTH 4170 Jazz Arranging  
 (requires all theory courses or permission of instructor)  
 MUTH 4180 Improvisation I  
 (requires MUTH 1110 or permission of instructor)  
 MUTH 4190 Principles and Practices of Electronic Music\*  
 MUTH 4590 MIDI Studio Techniques\*  
 A maximum of 4 hours of private instruction or ensemble may be counted toward the Music Industry Minor

### Total hours in Music Industry minor: 20

\*Indicates course may not be counted toward both major and minor requirements.

**NOTES:** Recording Industry majors electing the Music Industry minor are required to maintain a 2.00 GPA on all coursework in the minor in order to graduate.

## Theatrical Design Minor

### Select 21 hours from the list below:

THEA 2110 Stagecraft  
 THEA 3100 Make-up Techniques for Performers  
 THEA 3200 Introduction to Costumes for Arts and Entertainment  
 THEA 4200 Costume Technology and Production  
 THEA 4220 Costume Design for Arts and Entertainment  
 THEA 3300 Scene Design  
 THEA 3400 Introduction to Lighting for Arts and Entertainment  
 THEA 4300 Advanced Scenic Design  
 THEA 4390 Topics in Scenography  
 THEA 4100 Special Effects Make-Up  
 THEA 4230 Advanced Costume Design for Arts and Entertainment

### Total hours in Theatrical Design minor: 21

**NOTES:** Courses taken to meet major field of study requirements or other minor requirements may not be counted toward this minor. Recording Industry majors electing the Theatrical Design minor are required to maintain a 2.00 GPA on all coursework in the minor in order to graduate.

## Minor in Recording Industry for Non-majors

The minor in Recording Industry consists of 18 semester hours including RIM 3000 and 3600 and 12 hours of Recording Industry electives as approved by the minor advisor. MUHL 3670 may not be used to meet both major and minor requirements. Students must maintain a 2.00 average in the Recording Industry minor.



## Courses in Recording Industry [RIM]

- 1230 (123) Musicianship for Engineers.** Three credits. A variety of music subjects explored within the context of commercial music as related to audio recording and production. Specific topics include music fundamentals, commercial music theory, commercial form and styles, and basic aural and keyboard skills. Students who have passed MUTH 1110 with a grade of C or better may not enroll in RIM 1230 for credit. Laboratory required.
- 3000 (300) History of the Recording Industry.** Three credits. Traces the development of the technology, business, major record labels, and the music recorded as well as significant individuals in these areas.
- 3010 (301) Audio for Media.** Three credits. Examines theories and technology used in audio production for music, radio, TV, and film. Provides the management-oriented student with a useful vocabulary covering the area of audio production and provides the production-oriented student with the basic theory upon which production skills can be built.
- 3020 (302) Commercial Songwriting.** Three credits. (Same as MUTH 3020.) Prerequisites: RI majors - admission to candidacy and RIM 1230 or MUTH 1110 or permission of instructor; others - permission of instructor. Organization of ideas, words, and music into the writing of popular songs. Analysis of songwriting trends. Students expected to play guitar or piano and sing.
- 3100 (310) Music as Popular Culture.** Three credits. (Same as JOUR 3100.) Prerequisites: RI majors - admission to candidacy; others - permission of instructor. Introduces range of scholarly approaches to the study of popular music. Encourages perspectives other than those of "producer" or "consumer." Requires application of analytic and critical methods in research paper assignments. Writing intensive.
- 3450 (345) Advanced Musicianship for Engineers.** Three credits. Prerequisites: Admission to candidacy; RIM 1230 or MUTH 1110. (Not available to students enrolled in or who have completed MUTH 1120.) Continuation of RIM 1230. Furthering the application of musical concepts previously learned to popular music. Topics include syncopation, modulation, two-handed accompaniment patterns, and selected secondary chords. Introduction to music notation software and the preparation of a lead sheet. Laboratory required.
- 3500 (350) Lecture Series.** One credit. Prerequisite: RI majors - admission to candidacy. Major executives, producers, and others in the recording industry speak to students about contemporary topics in the music business. May be taken only once for credit toward the major. Pass/Fail.
- 3580 (358) RIM Practicum.** One to three credits. Prerequisites: RI majors - admission to candidacy, approval of instructor prior to enrollment, and approved application. On-campus experiences in and related to the recording industry. Course may be repeated up to three times, but no more than six total credits toward the major allowed for RIM 3580, 4000, and 4010. Pass/Fail.
- 3600 (360) Survey of the Recording Industry.** Three credits. Examination of the industry including, but not limited to, artist development, songwriting, publishing, record companies, record marketing and promotion, copyright, performance rights, and careers.
- 3650 (365) Free Expression, Mass Media, and the American Public.** Three credits. (Same as JOUR/RATV 3650.) A general introduction to the issues surrounding free expression and its relationship with mass media in contemporary America. A comprehensive analysis of the history, philosophies, cases, and controls associated with freedom of expression.
- 3700 (370) Copyright Law.** Three credits. Prerequisite: RI majors - admission to candidacy; others - RIM 3600. Examination of copyright law with particular reference to the music industry. Emphasis on understanding and applying the law to work in the industry.
- 3720 (372) Artist Management.** Three credits. Prerequisite: RI majors - admission to candidacy; others - RIM 3600. Examination of the role of recording artists' representatives. Topics include personal appearances, touring, unions, and contractual considerations.
- 3770 (377) Publicity in the Recording Industry.** Three credits. Prerequisites: RI majors - admission to candidacy and JOUR 2710; others - RIM 3600 and JOUR 2710. Experience in creating publicity materials and developing media relations, press releases, press kits, and publicity campaigns.
- 3890 (389) International Recording Industry.** Three credits. Prerequisites: RI majors - admission to candidacy; others - RIM 3600. Cultural, media, business, and legal aspects of making and selling records on a worldwide basis. Specific studies in foreign record company operations, i.e., production, distribution, marketing, promotion, and licensing. Immigration, union, and tax implications of artists recording abroad.
- 3900 (390) Music Publishing.** Three credits. Prerequisites: RI majors - admission to candidacy and RIM 3700; others - RIM 3600 and 3700. Operations and functions of music publishing industry including songwriter-publisher relations. Primary thrust is popular music publishing, but art, religious, and educational music also discussed.
- 4000 (400) Recording Industry Internship: Business.** One to six credits. Prerequisites: Admission to candidacy; senior standing (90 hours), Music Business sub-core, and approved internship application. Practical experience for advanced students in a professional recording industry setting. This course may be repeated for additional credit. No more than six hours toward the major are allowed for RIM 3580, 4000, and 4010. Pass/Fail.
- 4010 (401) Recording Industry Internship: Technology.** One to six credits. Prerequisites: Admission to candidacy; senior standing (90 hours), Production and Technology sub-core, and approved internship application. Practical experience for advanced students in a professional recording industry setting. This course may be repeated for additional credit. No more than six hours toward the major are allowed for RIM 3580, 4000, and 4010. Pass/Fail.
- 4190 (419) Principles and Practices of Electronic Music.** Three credits. (Same as MUTH 4190.) Three credits. Prerequisites: RI majors - admission to candidacy and RIM 1230 or MUTH 1110; others - RIM 3010, RIM 1230, or MUTH 1110 or permission of instructor. History and techniques of electronic music including analog and digital sound generation and manipulation, control systems, MIDI, Macintosh basics, and an introduction to sequencer and editor/librarian software. Laboratory required.
- 4200 (420) Applied Digital Audio.** Three credits. Prerequisites: RI majors - admission to candidacy; others - permission of instructor. An overview of digital audio technology. Emphasis on conceptual design of analog to digital and digital to analog convert-

ers and current trends in digital audio technology. Extensive hands-on experience in a digital audio workstation environment. Laboratory required.

- 4290 (429) Electronic Music II.** Three credits. (Same as MUTH 4290.) Prerequisites: RI majors - admission to candidacy and RIM/MUTH 4190; others - RIM/MUTH 4190. Advanced techniques of sound manipulation and introduction to digital sampling, alternate controllers, and MIDI control of effects devices. Advanced sequencing including modular composition, remote controls, and MIDI automation. Laboratory required.
- 4320 (432) Concert Promotion.** Three credits. Prerequisites: RI majors - admission to candidacy; others - RIM 3600. An in-depth study of the theoretical and practical aspects of presenting contemporary arts and entertainment performances. Topics include talent acquisition, contracts and riders, production, venues, budgeting, ticket services, and promotion.
- 4400 (440) Techniques of Recording.** Three credits. Prerequisites: RI majors - admission to candidacy and RIM 1230; others - permission of instructor. Develops an understanding of the techniques and technology involved in modern multi-track recording and mixing. Extensive hands-on experience. Laboratory required.
- 4440 (444) Critical Listening.** Three credits. Prerequisites: RI majors - admission to candidacy, RIM 4400, and permission of instructor; others - permission of instructor. Ear-training and aesthetics for recording engineers. Class activities involve listening and analysis of master tape and disc formats. Sources include a wide variety of music genres as well as specialized technical ear-training materials. Development of a vocabulary for communication of aural impressions. Introduction to "high-end" audio.
- 4560 (456) Concepts and Development of Multichannel Audio.** Three credits. Prerequisites: RI majors - admission to candidacy; others - permission of instructor. Overview of multichannel audio technology. History and development of multichannel audio systems for film soundtracks and music production. Mathematical conceptualizations of these systems and current trends in multichannel digital audio technology presented.
- 4570 (457) The Art of Soundtrack Design.** Three credits. Prerequisite: RI majors - admission to candidacy; others - permission of instructor. Examines the creative use of sound in film and theatre through critical listening to various soundtracks. The theory and practice of sound design analyzed and discussed in a lecture-oriented class.
- 4580 (458) Disk-Based Audio Post-Production.** Three credits. (Same as RATV 4580.) Prerequisites: RI majors - admission to candidacy, RIM/MUTH 4190, RIM 4200 and 4400; RATV majors - RIM 3010, RATV 3120 and 3130; all others - permission of instructor. An advanced, hands-on approach to the principles of tapeless digital recording on a variety of digital workstate platforms. In-depth discussions of disk-based digital audio, synchronization, audio for video and film, and multichannel sound mixing techniques. Focuses on use of digital audio workstations in an audio post-production environment. Laboratory required.
- 4590 (459) MIDI Studio Techniques.** Three credits. (Same as MUTH 4590.) Prerequisites: RI majors - admission to candidacy, RIM/MUTH 4290, and RIM 4400; others - RIM/MUTH 4290 and RIM 4400 or permission of instructor. MIDI systems design and the total integration of all MIDI-controllable devices. SMPTE and MIDI Time Code and their application to tape synchronization.
- A continuation of advanced techniques for digital sampling, sequencing, sound manipulation, and use of alternate controllers. Other topics include sound effects and music scoring for film and video, and the MIDI Machine Control and MIDI Show Control specifications. Laboratory required.
- 4600 (460) Electronic Multimedia Production.** Three credits. (Same as RATV 4600.) Prerequisites: RI majors - admission to candidacy, CSCI 1150 or INFS 2200, PHOT 3200, and RIM/MUTH 4190; RATV majors - CSCI 1000, PHOT 3200, and RATV 3300; all others - permission of instructor. An advanced, hands-on approach to the principles of electronic multimedia production. A systems integration approach utilized to effectively combine text, graphics, digital video, digital audio, two- and three-dimensional animation, and digital images. Students use a variety of authoring software packages and scripting languages and are trained in the use and operation of various hardware and software systems to produce interactive electronic multimedia presentation projects. Laboratory required.
- 4620 (462) Marketing of Recordings.** Three credits. Prerequisite: RI majors - admission to candidacy; others - RIM 3600. Special emphasis on the particular structures and problems involved in the movement of recordings from manufacturer to the buying public. Topics include product marketing, promotion, and distribution.
- 4630 (463) Recording Industry Research.** Three credits. Prerequisites: RI majors - admission to candidacy, RIM 4620 or MKT 3820, computer literacy, and permission of instructor. Provides hands-on experiences in research in the recording industry. Involvement in group projects to provide music and consumer research services to various clients in the industry. Class is workshop oriented.
- 4650 (465) Advanced Technology of Recording.** Three credits. Prerequisites: RI majors - admission to candidacy, RIM 4400; others - permission of instructor. Further study of technology, equipment, and techniques of contemporary multitrack recording. Lecture and lab sessions focus upon specific studio hardware and software as well as preparation for professional work as an assistant (second) engineer. Laboratory required.
- 4660 (466) Advanced Music Engineering.** Three credits. Prerequisites: RI majors - admission to candidacy, RIM 4650; all others - permission of instructor. Project-based class emphasizing creative and aesthetic aspects of multitrack music recording. Topics include microphone techniques, session protocols, incorporation of MIDI elements, sample replacement and augmentation, rough mixing, console automation techniques, signal processing and ear-training for recording engineers. Laboratory required.
- 4670 (467) Studio Production.** Three credits. Prerequisites: RI majors - admission to candidacy and RIM 4650; others - permission of instructor. Laboratory experience and lectures in commercial music, recording techniques, and business designed to develop the abilities needed in becoming an independent producer of contemporary commercial recordings. Laboratory required.
- 4700 (470) Legal Problems of the Recording Industry.** Three credits. Prerequisites: RI majors - admission to candidacy and RIM 3700; others - RIM 3600 and 3700. An overview of legal problems encountered in the recording industry with specific attention to contractual considerations in recording and producing.

- 4720 (472) Record Retail Operation.** Three credits. Prerequisites: RI majors - admission to candidacy and MKT 3820 or RIM 4620; others - RIM 3600 and MKT 3820. Problems and practices of recording industry retailers, including pricing, inventory control, advertising, operations, and retail locations for audio and video recordings and printed music.
- 4730 (473) The A&R Function.** Three credits. Prerequisites: RI majors - completion of Music Business or Production and Technology sub-core. Role and responsibilities of a record company's artist and repertoire department. Emphasis on finding and guiding an artist as well as the administration of the production and marketing of a project.
- 4740 (474) Studio Administration.** Three credits. Prerequisite: RI majors - admission to candidacy; others - permission of instructor. Applications course involving the administrative functions of recording studio operations, including accounting, marketing, personnel, planning, and computer applications.
- 4800 (480) Understanding the Nashville Music Business—Past and Future.** Three credits. Prerequisites: Concurrent with or subsequent to RIM 4000 or RIM 4010. Acquaints interns and students working in the Nashville music industry with industry practices through a historic perspective and through conducting a research project.
- 4810 (481) Topics in Recording Industry.** Three credits. Prerequisite: RI majors - admission to candidacy. Examination and critical evaluation of current issues related to the operation and function of various aspects of the recording industry. Subject matter varies. Course may be repeated one time for additional credit.
- 4820 Record Label Operations.** Three credits. Prerequisites: RIM 4620. Day-to-day marketing tasks conducted onsite for a record label offer students training on the practical application of the latest marketing software. Must be able to travel to Music Row and commit to 10 hours per week at a record label.
- 4830 (483) Recording Studio Maintenance.** Three credits. Prerequisites: RI majors - admission to candidacy, RIM 4400, MATH 1710 or higher level math (MATH 1010 will not fulfill this requirement), ET 3600 or ET 3610, or permission of instructor; others - permission of instructor. Focuses on studio maintenance and troubleshooting techniques. Includes soldering, wiring standards, machine alignment, and system architecture. Laboratory required.
- 4900 (490) Individual Problems in the Recording Industry.** One to three credits. Prerequisites: RI majors - admission to candidacy, approved application, and permission of department. Advanced project in production or music business. Students submit applications to production and technology or music business faculty committees. Once approved, a determination is made as to credit to be awarded. Project is reviewed by a panel of three faculty members to determine grade. No more than three credits toward the major are allowed.
- 4910 (491) Advanced Production Seminar.** Three credits. Prerequisites: RI majors - admission to candidacy and permission of instructor only. The conceptualization, management, and production of a specific program format integrating theory and skills from other RATV/RIM courses. Sports, music, and drama are probable topics. Topics will vary by semester offering.



# FACULTY AND ADMINISTRATION, SPRING 2004

*This listing reflects the Spring 2004 faculty members and administrators. The date in parentheses is that of first appointment to a position at MTSU.*

**McPhee, Sidney A., President**

B.A., 1976, Prairie View A&M University; M.A., 1979, University of Miami-Coral Gables; Ed.D., 1982, Oklahoma State University. (2001)

**Abolins, Mark J., Associate Professor, Geosciences**

B.A., 1992, University of California, Berkeley; M.S., 1996; Ph.D., 1998, California Institute of Technology. (1998)

**Acreman, Beth C., Assistant Soccer Coach, Athletics**

B.S., 1999, Barton College; M.S., 2002, Middle Tennessee State University. (2001)

**Adam, Nathan E., Assistant Professor, Recording Industry**

B.A.A., 1990; M.B.A., 2000, Pittsburg State University. (2003)

**Adams, C. Nathan, Professor, Computer Information Systems**

B.S., 1961, Abilene Christian College; M.S.C., 1963; Ph.D., 1975, University of Alabama; C.D.P., 1977. (1975)

**Aday, Ronald H., Professor, Sociology and Anthropology; Director, Aging Studies**

B.S., 1966, Oklahoma State University; M.S., 1971, Tulsa University; Ph.D., 1976, Oklahoma State University. (1980)

**Aggarwal, Rajesh, Associate Professor, Computer Information Systems**

M.S., 1984; M.S., 1985; Ph.D., 1987, University of Texas, Arlington. (1990)

**Agostini, Thomas C., Assistant Professor, History**

B.A., 1990, Virginia Military Institute; M.A., 1993, James Madison University; Ph.D., 2002, Lehigh University. (2003)

**Akins, Joseph L., Instructor, Recording Industry**

B.M., 1989, University of Tennessee; M.A., 1991, Radford University. (2000)

**Alexander, Rebekah B., Assistant Professor, Elementary and Special Education**

B.S., 1980; M.E., 1984; Ed.S., 1991, Middle Tennessee State University; Ed.D., 1997, Peabody College of Vanderbilt University. (2000)

**Alexander, Susan C., Assistant Professor, Walker Library**

B.S., 1993, Tennessee Technological University; M.L.S., 1997, University of Tennessee, Knoxville. (1998)

**Aliquo, Don J., Assistant Professor, Music**

B.M., 1992; M.M., 1994, Duquesne University. (1999)

**Allen, Harry William, Jr., Assistant Professor, Aerospace**

B.S., 1994; M.Ed., 1996, Middle Tennessee State University. (1996)

**Allen, Tammie C., Coordinator, Development and University Relations**

C.P.S., 1995. (1992)

**Alley, Vivian Morgan, Professor, Developmental Studies**



B.S., 1983; M.S., 1985; Ed.S., 1992, Middle Tennessee State University; Ed.D., 1997, Tennessee State University. (1985)

**Alleyn, Michael R., Assistant Professor, Recording Industry**

B.A., 1992; Ph.D., 1996, University of the West Indies. (2000)

**Allsbrook Boone, Nancy, Professor, Music**

B.S., 1970, Tennessee Wesleyan College; M.S., 1975, University of Tennessee; Ed.D., 1988, University of Illinois. (1979)

**Altenhof, David A., Assistant Professor, Walker Library**

B.A., 1991; M.I.S., 2003, Indiana University. (2004)

**Altman, Heidi M., Assistant Professor, Sociology and Anthropology**

B.A., 1987; M.A., 1990; M.A., 1996, Florida State University; Ph.D., 1997, University of California-Davis (2003)

**Alverson, Shawn M., Manager, ID Office, Communication Support Services**

(1999)

**Amey, Foster K., Assistant Professor, Sociology and Anthropology**

B.A., 1979, University of Cape Coast; M.A., 1994; Ph.D., 1997, Bowling Green State University. (1999)

**Amuzu, Boniface, Assistant Manager for Operations, Murphy Center Complex**

B.S., 1999; M.B.A., 2001, Middle Tennessee State University. (2002)

**Anderson, Deborah K., Professor, Speech and Theatre**

B.F.A., 1973; M.F.A., 1981, University of Florida. (1981)

**Anderson, Michelle, Assistant Professor, Art**

B.F.A., 1999, University of Tennessee; M.F.A., 2001, New York University. (2003)

**Anderson, Robert Blake, Assistant Football Coach, Athletics**

B.S., 1992, Sam Houston State University; M.S., 1994, Eastern New Mexico State. (2002)

**Anderson, Warren Lee, Professor, Agribusiness and Agriscience**

B.S., 1971; M.S., 1974, University of Nebraska; Ph.D., 1978, University of Illinois. (1978)

**Anderson-Fields, Karen T., Instructor, Human Sciences**

B.S., 1988; M.Ed., 1990, East Tennessee State University. (1993)

**Apigian, Charles H., Assistant Professor, Computer Information Systems**

B.S., 1995, Bowling Green State University; M.B.A., 1998, Wayne State University; Ph.D., 2003, University of Toledo. (2002)

**Applegate, Edward C., Professor, Journalism**

B.A., 1975; M.A., 1976; M.H.Ed., 1976; Ed.S., 1981, Morehead State University; Ed.D., 1984, Oklahoma State University. (1984)

**Arik, Murat, Associate Director, Business and Economic Research Center, Jennings A. Jones College of Business**

B.A., 1989, Ankara University; M.A., 1994, Syracuse University; Ph.D., 2001, University of Connecticut. (2003)

**Armstrong, Rhonda K., Assistant Professor, Walker Library**

B.B.A., 1980, Middle Tennessee State University; M.L.S., 1991, Indiana University, Bloomington. (1994)

**Arndt, Michael J., Assistant Professor, Music**

B.M., 1995, University of Missouri; M.M., 1998, University of Minnesota. (2002)

**Ash, Kay, Advancement Computing Support Specialist, Administrative Information System Services**  
B.B.A., 1993; M.B.A., 2000, Middle Tennessee State University. (2002)

**Asthana, Sanjay, Assistant Professor, Journalism**  
B.A., 1985, Osmania University; M.A., 1992; M.A., 1993, University of Hyderabad; Ph.D., 2003, University of Minnesota. (2003)

**Austin, Benjamin S., Associate Professor, Sociology and Anthropology**  
B.S., 1966; M.A., 1970, Middle Tennessee State University; Graduate Study, University of Tennessee. (1970)

**Austin, Karen Morgan, Assistant Director, Career and Employment Center**  
B.S., 1996, Middle Tennessee State University. (2001)

**Austin, M. Jill, Professor, Management and Marketing; Department Chair**  
B.B.A., 1979; M.B.A., 1981, Delta State University; D.B.A., 1986, Mississippi State University. (1985)

**Avent, Valerie, Director, Lifelong Learning, Division of Continuing Studies and Public Service**  
B.S., 1979; M.Ed., 1996, Middle Tennessee State University. (1998)

**Azarbarzin, Augusta Susan, Instructor, Developmental Studies**  
A.S., 1972, Columbia State Community College; B.S., 1976, Tennessee Technological University; M.S., 2000, Tennessee State University; Ed.S., 2003, Middle Tennessee State University. (2001)

**Babbili, Anantha, Dean, College of Mass Communication**  
B.S., 1970, Osmania University; M.S., 1976, University of Oklahoma; Ph.D., 1981, University of Iowa. (2002)

**Badger, David P., Professor, Journalism**  
B.A., 1971, Duke University; M.S.J., 1972, Northwestern University; Ph.D., 1987, University of Tennessee, Knoxville. (1980)

**Badley, Linda C., Professor, English**  
B.A., 1966, Oklahoma Baptist University; M.A., 1967, University of Iowa; Ph.D., 1977, University of Louisville. (1979)

**Badley, William, Associate Professor, Developmental Studies; Director, General Education**  
B.A., 1967, University of Iowa; M.A., 1971, Southern Baptist Seminary; D.A., 1993, Middle Tennessee State University. (1985)

**Baggary, Michael, Assistant Professor, Art**  
B.F.A., 1999, Western Kentucky University; M.A., 2001; M.F.A., 2002, University of Iowa. (2002)

**Bailey, Calvin, Area Coordinator, Housing and Residential Life**  
B.S., 2000; M.S., 2002, Mississippi State University. (2002)

**Bailey, Carey I., Assistant Football Coach, Athletics**  
B.A., 1992, University of Tennessee. (2003)

**Bailey, Frank C., Associate Professor, Biology**  
B.S., 1987, Rhodes College; Ph.D., 1994, Clemson University. (1994)

**Baily, Carol Ann, Director, Adult Services Center**  
B.A., 1969, Florida Presbyterian College; M.A., 1977; Ed.D., 1992, Vanderbilt University. (1993)

**Baines, Patricia, Instructor, English**  
B.S., 1999; M.A., 2003, Middle Tennessee State University. (2003)

**Baird, Diane N., Associate Professor, Walker Library**  
B.A., 1965, Austin Peay State University; M.L.S., 1969, George Peabody College; Ed.S., 1979, Vanderbilt

University. (1991)

**Bakari, Adonijah, Associate Professor, History; Director, African American Studies**

B.S., 1986, Tuskegee University; M.A., 1989, Northeastern Illinois University; Ph.D., 1999, Temple University. (1994)

**Bakari, Kenneth M., LEAP Program Manager, Engineering Technology and Industrial Studies**

B.A., 1985, Fisk University; M.S., 1995, Meharry Medical College. (2003)

**Baker, Lawanda McClellan, Graphic Designer, Publications and Graphics**

B.F.A., 1994, Middle Tennessee State University. (2002)

**Balachandran, Martha E., Associate Professor, Business Education, Marketing Education, and Office Management**

B.S., 1974; M.B.E., 1983, Middle Tennessee State University; Ed.D., 1991, University of Memphis. (1999)

**Balch, James V., Associate Professor, Mathematical Sciences**

B.A., 1964, Arkansas College; M.S., 1969; Ed.D., 1973, Oklahoma State University. (1984)

**Bales, William J., Vice President, Development and University Relations**

B.S., 1981; M.S., 1986, University of Tennessee. (2002)

**Barber, Nancy L., Associate Professor, Nursing**

B.S.N., 1991, University of Tennessee-Memphis; M.S.N., 1995, Belmont University; D.N.S., 2002, University of Tennessee-Memphis. (2004)

**Barker, Gayle, Payroll Manager, Human Resource Services**

B.B.A., 1985; M.B.A., 1989, Middle Tennessee State University. (1985)

**Barnes, Steven, Development Officer, College of Mass Communication; Development Office**

B.S., 1998, Middle Tennessee State University. (1999)

**Barnet, Richard D., Professor, Recording Industry**

B.M., 1971, Illinois State University; M.M., 1975, Ithaca College; Ph.D., 1986, Arizona State University. (1991)

**Barnett, Claudia, Associate Professor, English**

B.A., 1988, Cornell University; M.A., 1990; Ph.D., 1994, Ohio State University. (1994)

**Barnwal, Rajesh K., Associate Professor, Mathematical Sciences**

B.S., 1982, Indian Statistical Institute; M.S., 1991, University of Western Ontario; Ph.D., 1990, University of Windsor. (1994)

**Barr, Marc J., Professor, Electronic Media Communication**

B.A., 1974, State University College of New York, Oswego; M.F.A., 1978, Memphis State University. (1989)

**Barrow, John, Assistant Professor, History**

B.A., 1988, Davidson College; M.A., 1991; Ph.D., 1996, Vanderbilt University. (2000)

**Bartley, Dianne A.R., Professor, Health, Physical Education, Recreation, and Safety; Interim Department Chair**

B.S., 1969, Howard University; M.Ed., 1970, Pennsylvania State University; Ph.D., 1983, University of Maryland. (1991)

**Batey, Lisa C., Manager, Human Resource Services**

C.P.S., 1993; B.B.A., 2000; M.B.A., 2003, Middle Tennessee State University. (1990)

**Batson, JoAnn, Administrative Systems Analyst, Administrative Information System Services**

B.B.A., 1981, Middle Tennessee State University. (2001)

**Baty, Nancy N., Instructor, Mathematical Sciences**

B.S., 1986, Grove City College; M.S., 1988, Virginia Polytechnic Institute/State University. (2000)

**Bauder, Debbie, Director, Project HELP**

B.S., 1978, University of Tennessee; M.Ed., 1994, Middle Tennessee State University. (2000)

**Bauer, Richard H., Professor, Psychology**

B.A., 1964, University of Montana; M.A., 1965; Ph.D., 1970, University of Washington. (1981)

**Baum, Charles L., Assistant Professor, Economics and Finance**

B.S., 1995, Wake Forreest University; Ph.D., 1999, University of North Carolina. (1999)

**Baumer, Matthew R., Assistant Professor, Music**

B.M., 1998, Drake University; M.M., 1993; M.A., 1995; Ph.D., 2002, University of North Carolina-Chapel Hill. (2002)

**Beard, Mala L., Associate Professor, Engineering Technology and Industrial Studies**

B.S., 1969, University of Tennessee, Knoxville; M.S., 1974, University of Oklahoma; Ph.D., 1994, Colorado State University. (1998)

**Beasley, Brenda Gail, Coordinator of Research Collections, Center for Popular Music**

B.M., 1980, Mars Hill College; M.A., 1996, Penn State University; M.S.L.S., 2001, University of North Carolina-Chapel Hill. (2002)

**Beck, Michael, Associate Professor, Mathematical Sciences**

B.S.E., 1972; M.Mathematics, 1977; Ph.D., 1985, University of Tennessee. (1987)

**Beemon, F.E., Professor, History**

B.A., 1967, University of Mississippi; M.A., 1974, Mississippi College; Ph.D., 1988, University of Tennessee, Knoxville. (1989)

**Bekaert, Denis A., Instructor, Geosciences**

B.S., 1965; D.V.M., 1969, Kansas State University; M.P.H., 1975, University of Minnesota. (2002)

**Belcher, Deborah G., Assistant Professor, Human Sciences**

A.S., 1982, Young Harris College; B.S., 1984, Middle Tennessee State University; M.F.A., 1988, University of Georgia. (1991)

**Beller, Suzanne, Assistant Director, Student Financial Aid**

B.B.A., 1985, Middle Tennessee State University. (1990)

**Belsky, Janet K., Associate Professor, Psychology**

B.A., 1969, University of Pennsylvania; Ph.D., 1976, University of Chicago. (1991)

**Belton, Frederick A., Instructor, Developmental Studies**

B.S., 1979, University of Tennessee; M.S., 1995, University of Memphis. (2001)

**Beltz, Gary, Technical Support Specialist, Server, Classroom, and Desktop Services**

A.S., 1986, Indiana Vocational Technical College. (2000)

**Bennett, Jason P., Instructor, Health, Physical Education, Recreation, and Safety**

B.A., 1995; M.A., California State University, Chico. (2000)

**Benz, George, Associate Professor, Biology**

B.S., 1976; M.S., 1980, University of Connecticut; Ph.D., 1994, University of British Columbia. (2004)

**Berg, Thomas R., Associate Professor, Electronic Media Communication**

B.F.A., 1970, University of South Dakota; M.S., 1974, Iowa State University; Ph.D., 1988, University of Georgia.



(1991)

**Bernstein, Stuart E., Assistant Professor, Psychology**

B.A., 1988, University of Rochester; M.A., 1992; Ph.D., 1996, Michigan State University. (1998)

**Bertrand, John E., Associate Professor, Aerospace**

B.A., 1971; M.S., 1975, University of Tennessee; Ph.D., 1987, Ohio State University. (2002)

**Bertrand, Nancy P., Professor, Elementary and Special Education**

B.S., 1971; M.S., 1975, University of Tennessee; Ph.D., 1983, Ohio State University. (1983)

**Billingham, Greyson, Coordinator, Correspondence Courses, Division of Continuing Studies and Public Service**

B.A., 1999; M.B.A., 2003, Middle Tennessee State University. (2001)

**Bills, Raymond P., Professor, Music**

B.M., 1959, Northwestern University; M.M., 1962, Yale University; Graduate Study, University of Texas. (1963)

**Bishop, David J., Instructor, Journalism**

B.A., 1964, Michigan State University. (2000)

**Black, William K., Associate Professor, Walker Library**

B.A., 1972, University of Redlands; M.L.S., 1975, University of Michigan. (1996)

**Blackwell, Aleka, Assistant Professor, English**

B.S., 1989, Northwestern University; M.A., 1991, University of Illinois; Ph.D., 1998, Boston University. (2001)

**Blair, Robert B., Associate Professor, Business Education, Marketing Education, and Office Management; Director, Center for Economic Education**

B.S., 1986, Oral Roberts University; M.B.E., 1987, Middle Tennessee State University; Ph.D., 1993, Louisiana State University. (2000)

**Blake, Kenneth, Associate Professor, Journalism**

B.A., 1988; M.A., 1990, Marshall University; Ph.D., 1997, University of North Carolina-Chapel Hill. (1996)

**Blasingame-Boike, Kay, Instructor, Business Education, Marketing Education, and Office Management**

B.S., 1973; M.B.A., 1980, Middle Tennessee State University. (2002)

**Bloomer, Lisa A., Assistant Professor, Mathematical Sciences**

B.A., 1994, Goucher College; M.S., 1996; Ph.D., 2000, Georgia Institute of Technology. (2000)

**Blum, Kurt E., Professor, Biology**

A.B., 1961, Hanover College; M.A., 1965, Indiana University; Ph.D., 1968, Florida State University. (1969)

**Bodle, John V., Associate Professor, Journalism**

B.A., 1977, San Jose State University; M.S., 1992; Ph.D., 1993, Ohio University. (1993)

**Boehm, Alan D., Associate Professor, Walker Library**

M.A., 1981, University of Wisconsin; Ph.D., 1992, Indiana University; M.L.S., 1997, University of Missouri. (1999)

**Boldt, Allison, Instructor, English**

B.A., 1988, State University of New York; M.A., 1998, Tennessee State University. (2001)

**Boles, Walter W., Professor, Engineering Technology and Industrial Studies; Department Chair**

B.S., 1997; M.S., 1978, Virginia Technological University-Blacksburg; Ph.D., 1990, University of Texas, Austin. (2001)

**Bombardi, Ronald J., Professor, Philosophy; Department Chair**

B.A., 1975, LeMoyne College; Ph.D., 1984, Marquette University. (1984)

**Bonicamp, Judith Madeline, Professor, Chemistry**

A.B., 1968, University of Chattanooga; M.S., 1972, Tennessee Technological University; Ph.D., 1977, Emory University. (1982)

**Bonner, Gloria L., Professor, Educational Leadership; Dean, College of Education and Behavioral Science**

B.S., 1972; M.Ed., 1974; Ed.S., 1977, Middle Tennessee State University; Ed.D., 1988, Tennessee State University. (1985)

**Borasky, Stacey J., Assistant Professor, Social Work**

B.S.W., 1987, Shepherd College; M.S.W., 1989, West Virginia University; Ed.D., 2002, Tennessee State University. (1996)

**Bordine, Burton W., Professor, Geosciences**

B.S., 1963, Western Michigan University; M.S., 1965, Brigham Young University; Ph.D., 1974, Louisiana State University. (1986)

**Boyd, Nancy, Assistant Professor, Accounting**

B.A., 1973, Minot State University; M.S., 1974, University of North Dakota; C.P.A., 1980; M.B.A., 1987, Middle Tennessee State University. (1976)

**Boyer-Pennington, Michelle, Associate Professor, Psychology**

B.A., 1990, Emory University; M.S., 1992; Ph.D., 1995, University of Florida. (1995)

**Bradley, Celia S., Assistant Director, Student Financial Aid**

B.B.A., 1981, Middle Tennessee State University. (1991)

**Bradley, Patricia, Assistant Professor, English**

B.A., 1974, David Lipscomb University; M.A., 1992, Austin Peay State University; Ph.D., 2000, University of Tennessee. (2001)

**Bragg, Nancy M., Assistant to the Dean, Jennings A. Jones College of Business**

B.S., 1976, Middle Tennessee State University. (1999)

**Brandon, Larry D., Assistant Professor, Accounting**

B.S., 1977; J.D., 1980, Vanderbilt University; M.B.A., 1993, Middle Tennessee State University. (1986)

**Brannan, Tom I., Director, Advancement Services**

B.S., 1995, Auburn University. (2000)

**Brantley, William, Associate Professor, English**

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**Weatherby, Norman, Professor, Health, Physical Education, Recreation, and Safety**

B.S., 1974; M.S., 1977, North Texas State University; Ph.D., 1983, Florida State University. (2000)

**Webb, Rebecca L., Instructor, Speech and Theatre**

B.A., 1994, Cedarville College; M.A., 1999, Wheaton College. (2004)

**Weeks, Terry M., Professor, Educational Leadership**

B.S., 1972; M.Ed., 1975, Middle Tennessee State University; Ed.D., 1993, Vanderbilt University. (1989)

**Weese, Luther A., Associate Professor, Recording Industry**

B.S., 1977, University of Tennessee; M.B.A., 1995, Middle Tennessee State University. (1999)

**Weiler, Randy, Writer, News and Public Affairs**

B.S., 1976, East Tennessee State University. (2000)

**Welch, Nicole T., Assistant Professor, Biology**

B.S., 1991; M.S., 1993, Marshall University; Ph.D., 1998, University of Tennessee. (2002)

**Weller, Martha R., Professor, Physics and Astronomy**

B.A., 1973, Rice University; Ph.D., 1979, California Institute of Technology. (1988)

**Wells, Paul F., Associate Professor, Music; Director, Center for Popular Music**

A.B., 1972, Clark University; M.A., 1974, University of California, Los Angeles. (1985)

**Wermert, John G., Assistant Professor, Accounting**

B.S., 1983, University of Dayton; Ph.D., 1995, Indiana University; C.P.A., 1984. (2002)

**West, Carroll V., Associate Professor, History; Director, Center for Historic Preservation**

B.A., 1977, Middle Tennessee State University; M.A., 1978, University of Tennessee, Knoxville; Ph.D., 1982, College of William and Mary. (1985)

**West, W. Beryl, Professor, Psychology**

B.S., 1953, West Texas State College; M.Div., 1956; Th.M., 1962, Southwestern Baptist Theological Seminary; M.Ed., 1965; Ed.D., 1969, North Texas State University. (1969)

**Whitaker, David D., Director, Public Service-Horse Science, Agri-business and Agriscience**

B.S., 1968, University of Tennessee; M.Ed., 1977, Montana State University; Ph.D., 1982, Texas Tech University. (1982)

**Whitaker, Rita H., Assistant Manager, Event Services, Murphy Center Complex**

A.S., 1995, Motlow State Community College; B.A., 1998; M.S., 2002, Middle Tennessee State University. (1996)

**White, Gary D., Associate Professor, Chemistry**

B.A., 1978, Johns Hopkins University; Ph.D., 1984, University of Pennsylvania. (1991)

**Whitefield, Joe, Director, Energy Efficiency Center**

B.S., 1988, Tennessee Technological University. (1999)

**Whitehill, William R., Associate Professor, Health, Physical Education, Recreation, and Safety**

B.A., 1973; M.A., 1979, Morehead State University; Ed.D., 1992, University of Alabama, Tuscaloosa. (1994)

**Whiteside, Harold D., Professor, Psychology; Interim Department Chair**

B.A., 1967, University of Miami; M.S., 1973, North Carolina State University; Ph.D., 1973, Oklahoma State University. (1973)

**Wiley, Raymond W., Associate Director, Student Recreation Center**

B.S., 1980, Campbellsville College; M.A., 1982, Morehead State University. (1994)

**Williams, Betsy, Assistant Director, Advancement Services**

B.S., 2000, Middle Tennessee State University. (1994)

**Williams, Doug, Executive Director, Marketing and Communications, News and Public Affairs**

B.S., 1974, Middle Tennessee State University. (1996)

**Williams, Ella P., Instructor, Business Education, Marketing Education, and Office Management**

B.A., 1994, Trevecca Nazarene University; M.B.E., 2002, Middle Tennessee State University. (2003)

**Williams, Elsie Annette, Assistant Professor, Developmental Studies**

B.A., 1972, David Lipscomb College; M.S., 1974; Ed.S., 1992, Middle Tennessee State University. (1985)

**Williams, Forrestine W., Director, Equal Opportunity and Affirmative Action**

B.S., 1976; M.P.A., 1982; Ed.D. 1997, Tennessee State University. (1989)

**Williams, James H., Associate Professor, History**

B.A., 1986, Westminster College; M.A., 1987, College of William and Mary; Ph.D., 1993, Vanderbilt University. (1996)

**Williams, Jane L., Professor, Educational Leadership**

B.S., 1970; M.A., 1972; George Peabody College; Ed.D., 1983, East Tennessee State University. (1988)

**Willis, Clyde E., Professor, Political Science**

B.S., 1966, East Tennessee State University; J.D., 1969; Ph.D., 1991, University of Tennessee. (1999)

**Wills, Cornelia, Director, Institutional Research**

B.S., 1974, Austin Peay State University; M.Ed., 1992; Ed.D., 1997, Tennessee State University. (1989)

**Wilson, Becca Suiter, Coordinator, Student Development**

B.A., 1996, Carson-Newman College; M.A., 1997, Tennessee Technological University. (1998)

**Wilson, Harold O., Professor, Accounting**

B.S., 1958, David Lipscomb College; M.A., 1959, University of Missouri; C.P.A., 1959; Ph.D., 1968, University of Alabama; C.F.E., 1994. (1983)

**Wilson, Jean R., Instructor, Management and Marketing**

B.S., 1985, Illinois State University; M.B.A., 1989, Western Illinois University. (1999)

**Wilson, Linda A., Professor, Chemistry**

B.S., 1971; M.S., 1974; D.A., 1986, Middle Tennessee State University. (1981)

**Winborn, John Douglas, Associate Professor, Health, Physical Education, Recreation, and Safety; Assistant Dean for Program Planning, Assessment, and Accreditation**

B.S., 1976; M.S., 1988, Southern Connecticut State College; Ed.D., 1992, Tennessee State University. (1994)

**Wincek, Todd J., Manager, Chemistry Laboratories**

B.S., 1990, Coastal Carolina University. (2003)

**Winters, Joseph J., Assistant Professor, Mathematical Sciences**

B.A., 1996; M.Ed., 1997, Harding University; Ph.D., 2003, University of Tennessee. (2003)

**Witherow, Laurie B., Associate Director of Residential Education, Housing and Residential Life; Director, Academic Support Center**

B.A., 1987; M.A., 1988, Indiana University. (1989)

**Wofford, Linda G., Assistant Professor, Nursing**

B.S.N., 1980, University of Mississippi; M.S.N., 1983, University of Virginia. (2003)

**Wolf, Michael, LAN Administrator, Network Services**

B.S., 1985, Purdue University. (1998)

**Wolfe, Charles, Professor, English**

A.B., 1965, Southwest Missouri State College; M.A., 1967; Ph.D., 1970, University of Kansas. (1970)

**Womack, Bob, Professor, Educational Leadership**

B.S., 1948, Middle Tennessee State College; M.A., 1952; Ed.D., 1956, George Peabody College. (1957)

**Womack, Cynthia L., Coordinator, Online Courses, Division of Continuing Studies and Public Service**

B.B.A., 1981; M.B.E., 1999, Middle Tennessee State University. (1990)

**Womack, Lara, Associate Professor, Accounting**

B.S., 1979, Middle Tennessee State University; J.D., 1983, University of Tennessee. (1983)

**Wong, Ray, Associate Professor, Journalism**

B.S., 1972, Arizona State University; M.A., 1974, University of Missouri. (1995)

**Wood, Marilyn S., Assistant Professor, Recording Industry**

B.M.E., 1972, Oklahoma Baptist University; M.M.E., 1977, University of North Texas. (1998)

**Wood, Robert, Professor, Recording Industry**

B.M., 1969, Oklahoma Baptist University; M.M., 1974; D.M.A., 1981, University of North Texas. (1991)

**Woodard, Jennifer Bailey, Assistant Professor, Electronic Media Communication**

B.S., 1991, Middle Tennessee State University; M.A., 1993, University of Georgia. (2000)



**Worsey, Andrew J., Professor, Mathematical Sciences**

B.S., 1977; Ph.D., 1981, Brunel University (England). (1993)

**Wright, Stephen M., Professor, Biology**

B.S., 1983; M.S., 1987; Ph.D., 1990, University of North Dakota. (1992)

**Wubneh, Tech, Director, International Programs and Services**

B.A., 1974, Trevecca College; M.A., 1976, Scarritt College; M.Ed., 1978, Middle Tennessee State University; Ph.D., 1984, Vanderbilt University. (1986)

**Wulfsberg, Gary Paul, Professor, Chemistry**

B.S., 1966, Iowa State University; Ph.D., 1971, University of Wisconsin. (1981)

**Wunder, Brenda M., Event Coordinator, Event Coordination**

(1995)

**Wyatt, Robert O. II, Professor, Journalism**

B.A., 1968, University of the South; M.A., 1970; Ph.D., 1973, Northwestern University; M.S., 1977, University of Tennessee; M.T.S., 2003, Vanderbilt University. (1979)

**Yang, Fang, Instructor, Mathematical Sciences**

B.S., 1993, Hefei United University; M.S., 1999, Hefei University of Technology; M.S., 2002, West Virginia University. (2003)

**Yelverton, William E., Professor, Music**

B.M., 1983, Berklee College of Music; M.M., 1985, University of Miami; D.Mus., 1990, Florida State University. (1989)

**Yoo, Jungsoon, Professor, Computer Science**

B.S., 1979, Ewha Women's University (Seoul, Korea); M.S., 1984, North Carolina State University; Ph.D., 1991, Vanderbilt University. (1991)

**Yoo, Sung Kun, Professor, Computer Science**

B.S., 1973, Seoul National University; Ph.D., 1983; M.S., 1984, North Carolina State University. (1984)

**Young, Barbara N., Professor, Educational Leadership**

B.A., 1971, University of Southwestern Louisiana; M.Ed., 1984, Louisiana State University; M.A.T., 1989; Ed.S., 1990, Middle Tennessee State University; Ed.D., 1993, Tennessee State University. (1991)

**Yue, Jinfeng, Assistant Professor, Management and Marketing**

B.S., 1983, Peking University; M.E., 1989, Northwestern Polytechnical University; M.B.A., 1995, University of Nebraska; M.S., Ph.D., 2000, Washington State University. (2001)

**Zamora, John M., Professor, Biology**

B.A., 1979, Columbia University; Ph.D., 1984, Auburn University. (1987)

**Zawislak, Ronald L., Professor, Geosciences; Department Chair**

B.A., 1966; M.A.T., 1968, Vanderbilt University; Ph.D., 1980, University of Wyoming. (1988)

**Zha, Xiaoya, Associate Professor, Mathematical Sciences**

B.S., 1982, Anhui University, China; M.S., 1984, Huazhong University of Science and Technology, China; M.S., 1990; Ph.D., 1993, Ohio State University. (1997)

**Zheng, Guanping, Assistant Professor, Electronic Media Communication**

B.S., 1983; M.A., 1986, Hunan Normal University; Ph.D., 1998, University of Tennessee. (1999)

**Ziegler, Roy, Assistant Professor, Walker Library**

B.A., 1978, Missouri Valley, College; M.A., 1984, Central Missouri State University; M.L.S., 1989, University of

Missouri. (1999)

**Zietz, Joachim, Professor, Economics and Finance**

M.A., 1978; Ph.D., 1981, University of Gottingen. (1989)

**Zijlstra, Jan, Associate Professor, Mathematical Sciences**

B.S., 1982, Agricultural University (Wageningen, Netherlands); M.S., 1991; Ph.D., 1992, Auburn University. (1992)

**Zijlstra, Rebecca C., Professor, Mathematical Sciences**

B.S., 1979; M.S., 1981, Middle Tennessee State University; Ph.D., 1990, Auburn University. (1990)

**Zlotky, Gail L., Associate Professor, Aerospace**

B.S., 1992; M.S., 1994, Middle Tennessee State University. (1996)

## Military Science

**Deel, Byron P., MAJ, Assistant Professor, Military Science**

B.S., 1981, Free Will Baptist College; M.S., 1983, Middle Tennessee State University. (2002)

**Giles, Charles M., MAJ, Assistant Professor, Military Science**

B.S., 1976, Middle Tennessee State University. (2000)

**Mann, Orville J. II, MSG, Assistant Professor, Military Science**

B.S., 2001, Hawaii Pacific University (2003)

**Overby, Todd A., Lt. Col., Professor, Military Science; Department Chair**

B.S., 1980, Texas A&M University; M.S., 1996, Central Michigan University, Mt. Pleasant. (2001)

**Riedel, Robert H., CPT, Assistant Professor, Military Science**

B.S., 1990, James Madison University. (1998)

## Pittard Campus School Faculty

**Baskin, Stan, Principal**

B.M., 1975; M.A.T., 1978; Ed.S., 1981, Middle Tennessee State University; Ed.D., 1991, Tennessee State University. (1995)

**Babb, Helen G., Kindergarten**

B.S., 1964, George Peabody College; M.Ed., 1979, Middle Tennessee State University. (1979)

**Blooding, Karen, Music**

B.M., 1980, M.A.T., 1989, Middle Tennessee State University; National Board Certification, 2003. (1996)

**Cliche, Cynthia, First Grade**

B.S., 1980, Ball State University; M.A., 1985, Berry College. (1990)

**Duke, Jeffrey, Sixth Grade**

B.S., 1986; M.Ed., 1991; Ed.S., 1993, Middle Tennessee State University. (1996)

**Gillespie, Gayle, First Grade**

B.S., 1972; M.Ed., 1974, Middle Tennessee State University. (1988)

**Helton, Andra, Sixth Grade**

M.S., 1974; M.Ed., 1986; Ed.S., 1993, Middle Tennessee State University; Ed.S., 2000, Tennessee State University. (1995)

**Holman, Cary Eugene, Fifth Grade**

A.S., 1993, Motlow State Community College; B.S., 1995, University of Tennessee, Chattanooga; M.Ed., 2000, Tennessee State University. (2003)

**Howse, John, Physical Education**

B.S., Middle Tennessee State University. (1998)

**Lasater, Marrie, Second Grade**

B.S., 1973; M.Ed., 1976, University of Tennessee, Chattanooga. (1989)

**Lay, Steven, W. , School Counselor**

B.S., 1997, Middle Tennessee State University; M.A. 1999; Ed.S., 2000, Tennessee Technological University. (2000)

**Mann, Joan C., Media Specialist, Librarian**

B.A., 1968; M.Ed., 1973, Middle Tennessee State University; +45, 2002, Cumberland University, Andrews University. (1973)

**Neal, Pamela, Fourth Grade**

B.S., 1988, Middle Tennessee State University; M.S., 1997, Western Kentucky University. (2003)

**Patterson, Lynn G., Fifth Grade**

B.S., 1974; M.Ed., 1977; Ed.S., 1986, Middle Tennessee State University. (1987)

**Perdue, Nancy, Third Grade**

B.S., 1988; M.S., 1996, Austin Peay State University. (2003)

**Seigfried, Debbie Hurst, Third Grade**

B.S., 1974; M.S., 1980, George Peabody College; +30, 2003. (1991)

**Spence, Forrestine, Second Grade**

B.S., 1973, Oakland City University; M.S., 1989, Southern Illinois University. (2002)

**Templeton, Angie, Fifth Grade**

B.S., 1990; M.Ed., 1994; Ed.S., 1996, Middle Tennessee State University. (2001)

**Travis, Virginia, Kindergarten**

B.S., 1965; M.Ed., 1975, Middle Tennessee State University. (1976)

## **Adjunct, Medical Technology Programs**

**Austin Peay State University, Program of Medical Technology**

Belcher, Keith E., Ph.D., SM (ASCP)  
Mayo, Mary M., Ph.D., M.T. (ASCP), Program Director  
Robison, Robert D., Ph.D., M.T. (ASCP)  
Wallace, Cynthia J., M.S., M.T. (ASCP) SI

**Tennessee State University, Meharry Medical College, Program of Medical Technology**

Forbes, Digna, M.D., Medical Director  
Copeland, Theola, M.S., MT(ASCP), Program Director

**Vanderbilt Medical Center, Program of Medical Technology**

Head, David, M.D., Medical Director of Laboratories  
Exton, Maralie, B.A., MT(ASCP), SH, SLS, Program Director

## **Affiliate, Medical Technology Program**

### **Alvin C. York Medical Center**

Parsh, Sumar, M.D., Acting Chief, Laboratory Services  
Hamilton, Dale R., Ph.D., Supervisory Microbiologist  
Woods, Addie, Administrative Officer

## **Retired Faculty/Administrators**

*The two dates in parentheses indicate the years of service.*

### **Adams, James L., Manager, Academic Services, Office of Information Technology**

B.S., 1961, University of Oklahoma; M.S., 1968, University of California, Davis; Ph.D., 1989, University of California, Los Angeles. (1994-2000)

### **Allsbrook, Leland L., Associate Professor, Health, Physical Education, Recreation, and Safety**

B.S., 1963, East Carolina University; M.A.T., 1969, University of North Carolina. (1972-2000)

### **Anderson, Guy F., Associate Professor, English**

B.A., 1963, Lambuth College; M.R.E., 1966, Southern Methodist University; M.A.C.T., 1971, Middle Tennessee State University. (1971-98)

### **Anthony, Frances, Assistant to the Librarian**

B.S., 1954, Middle Tennessee State University. (1967-94)

### **Arnold, David, Professor Emeritus, Speech and Theatre**

A.B., 1952, David Lipscomb College; M.A., 1962; Graduate Study, Louisiana State University. (1962-97)

### **Arters, Jack D., Professor Emeritus, Educational Leadership**

B.S., 1959, Bluffton College; M.A., 1961, Marshall University; Ed.D., 1967, University of Tennessee; Post Doctoral Study, University of Wyoming. (1967-95)

### **Arthur, Hattie Lamb, Professor, Home Economics; Department Chair**

B.S., 1957, Baylor University; M.S., 1964; Ed.D., 1969, Texas Woman's University. (1974-85)

### **Aseltine, Gwen, Assistant Professor, Sociology, Anthropology, and Social Work**

Work A.B., 1961, Elmhurst College; M.A., University of South Florida; Ed.S., 1972; Ph.D., 1977, George Peabody College. (1967-81)

### **Aseltine, Herschel, Professor, Sociology, Anthropology, and Social Work**

A.B., 1951; B.D., 1952, McMaster University; M.A., 1955, University of Chicago; Ph.D., 1963, University of Southern Illinois. (1967-77)

### **Babb, Charles Worthy, Professor, Elementary and Special Education**

B.S., 1960; M.A., 1964, Middle Tennessee State University; Ed.D., 1971, University of Alabama. (1971-2003)

### **Baker, Harold S., Professor, Mass Communications**

B.A., 1952, David Lipscomb College; M.A., 1956; Ph.D., 1967, Louisiana State University. (1972-84)

### **Balch, Billy W., Professor Emeritus, Economics and Finance**

B.S., 1959, Florence State College; M.B.A., 1960; Ph.D., 1968, University of Alabama. (1964-98)

### **Baldwin, Harold, Professor Emeritus, Radio-Television/Photography**

A.B., 1951; M.A., 1958, Colorado State College; Graduate Study, Texas A&M. (1959-91)

### **Ballou, Ralph, Professor Emeritus, Health, Physical Education, Recreation, and Safety**

B.S., 1949; M.S., 1956, Springfield College; Ph.D., 1965, University of Oregon. (1968-96)

**Barger, James W., Professor, Accounting**

B.S., 1956, University of North Carolina; C.P.A., 1958; M.B.A., 1961; Ph.D., 1963, University of Alabama. (1980-87)

**Barlow, Sarah F., Professor, Biology**

B.S., 1959; M.A., 1963; Ed.S., 1985, Middle Tennessee State University; Ed.D., 1991, Vanderbilt University. (1979--2003)

**Beasley, Horace, Professor Emeritus, Music**

B.S., 1948; M.A., 1949; Graduate Study, George Peabody College. (1957-89)

**Beaty, Edgar, Professor, Youth Education and School Personnel Services**

B.S., 1942, Middle Tennessee State College; M.A., 1946, George Peabody College; Ed.D., 1953, Florida State University. (1956-86)

**Beers, George, Professor, Mathematical Sciences**

B.S., 1955; M.Ed., 1960, University of Florida, M.A., 1963, University of Illinois; Ed.D., 1967, University of Florida. (1966-96)

**Bergman, Race P., Professor, Elementary and Special Education; Interim Department Chair**

B.S., 1961, State University College, Geneseo, New York; M.A., 1967; Ed.D., 1974, The University of Rochester. (1973-2002)

**Berry, Mary Tom, Professor Emeritus, Elementary and Special Education**

A.B., 1946, Blue Mountain College; M.A., 1950, Mississippi Southern College; Ph.D., 1961, University of Alabama. (1960-94)

**Brackett, Walter Lee, Associate Professor, Elementary and Special Education**

B.A., 1938, Northwest Oklahoma State; M.A., 1944, University of Tulsa; Ph.D., 1963, George Peabody College. (1970-80)

**Brandon, Faye, Assistant Professor, Health, Physical Education, Recreation, and Safety**

B.S., 1949, Middle Tennessee State College; M.A., 1959, George Peabody College. (1971-92)

**Brashears, Elizabeth, Professor Emeritus, Elementary and Special Education**

B.S., 1943, Mississippi State College for Women; M.Ed., 1962, University of Southern Mississippi; Ed.D., 1969, University of Tennessee. (1969-90)

**Brooks, James T., Professor, Speech and Theatre; Associate Dean, College of Liberal Arts**

B.A., 1965, Appalachian State University; M.A., 1967; Ph.D., 1974, University of Florida. (1969-2000)

**Brown, Homer William, Professor Emeritus, Computer Science**

B.S., 1956; M.A., 1960; Graduate Study, George Peabody College. (1962-98)

**Brown, James Walker, Jr., Professor, Chemistry and Physics**

B.S., 1957, Middle Tennessee State College, M.S., 1959; Ph.D., 1962, North Carolina State College. (1962-89)

**Bunio, Edward M., Health, Physical Education, Recreation, and Safety/ Athletics; Assistant Coach, Football**

B.S., 1965; M.A., 1972, Austin Peay State University. (1978-94).

**Burford, Anna M., Professor, Business Education, Marketing Education, and Office Management**

B.S., 1964; M.A., 1967, Western Kentucky University; Ph.D., 1979, Ohio State University. (1981-2000)

**Burkheart, Hilda Sue, Assistant Professor, Librarian**

B.S., 1965, Middle Tennessee State University; M.L.S., 1966, George Peabody College. (1974-2001)

**Burks, Tom D., Director, Leadership Institute**



A.S., 1972, Columbia State Community College; B.B.A., 1980; M.B.A., 1982; Ed.S., 1988, Middle Tennessee State University; Ed.D., 1992, Vanderbilt University. (1982-2003)

**Camp, George, Assistant Professor, Health, Physical Education, Recreation, and Safety; Athletic Trainer**  
B.S., 1963, Kent State University; M.Ed., 1964, University of Pittsburgh; Graduate Study, Northern Illinois University. (1969-98)

**Cantrell, Paul T., Assistant Professor, Economics; Dean of Students**  
B.S., 1963, Middle Tennessee State College; M.S., 1965, University of Tennessee. (1965-94)

**Carlson, Keith, Professor, Psychology**  
B.A., 1964, Eureka College; M.S., 1968; Ed.D., 1970, Northern Illinois University. (1970-2003)

**Carson, Frances E., Associate Professor, Nursing**  
R.N., 1957, North Carolina Baptist Hospital School of Nursing; B.S.N.E., 1960, Florida State University; M.N., 1967, Emory University. (1989-2000)

**Chandler, Clay M., Professor Emeritus, Biology**  
B.S., 1950, Bethel College; M.A., 1954, George Peabody College; Ph.D., 1965, Indiana University. (1970-92)

**Chrietzberg, Bertha, Assistant Professor, Health, Physical Education, Recreation, and Safety**  
B.S., 1941, University of Alabama; M.Ed., 1968; Graduate Study, Middle Tennessee State University. (1969-81)

**Clark, Roy W., Professor Emeritus, Chemistry**  
B.S., 1957, Middle Tennessee State College; M.S., 1959; Ph.D., 1965, Louisiana State University. (1963-96)

**Compton, Otha H., Lt. Col., Professor, Military Science**  
B.S., 1963, Tennessee Technological University; M.S., 1977, Florida Institute of Technology. (1981-84)

**Cook, Baxter, Coordinator, Campus Planning**  
B.S., 1958; P.E., 1967; M.S., 1985, Middle Tennessee State University. (1972-92)

**Cooper, Linda H., Associate Director, Human Resource Services**  
B.S., 1964; M.Ed., 1971, Middle Tennessee State University. (1968-2003)

**Corcoran, Bobby Neal, Associate Professor Emeritus, Economics and Finance**  
B.B.A., 1959; Graduate Study, University of Oklahoma. (1962-99)

**Corlew, Robert E., Professor Emeritus, History; Vice President for Academic Affairs**  
B.S., 1945, Austin Peay State College; M.A., 1949, Vanderbilt University; Ph.D., 1954, University of Alabama. (1949-90)

**Covington, James, Assistant Professor, Psychology; Director, Counseling and Testing Center**  
B.S., 1956, Auburn University; M.A., 1959, Vanderbilt University; Ed.D., 1962, Auburn University. (1965-97)

**Cox, Billy W., Associate Professor, Aerospace**  
B.S., 1960; M.Ed., 1972, Middle Tennessee State University; FAA Airframe and Powerplant Certificate, 1980. (1980-98)

**Cox, Donald K. II, Assistant Director, Records**  
1968, Sullivan Business College; C.S.P., 1985; C.D.P., 1986. (1973-2003)

**Crenshaw, Douglas, Assistant Professor, English**  
A.B., 1959, David Lipscomb College; M.A., 1963; Graduate Study, George Peabody College. (1966-93)

**Cudd, Kermit G., Professor, Management and Marketing**  
B.A., 1953; M.A., 1958, University of Wisconsin; Ph.D., 1969, Ohio State University. (1988-92)

**Cunningham, Everett, Professor, Political Science**

A.B., 1954, Western Kentucky State University; M.A., 1958; Ph.D., 1964, University of Kentucky. (1966-98)

**Curry, Donald L., Professor, Biology; Dean, College of Graduate Studies**

A.B., 1963, Sacramento State College; Ph.D., 1967, University of California, San Francisco. (1995-2003)

**Davenport, Harold, Professor, Educational Leadership**

B.S., 1957; M.A., 1959, Appalachian State; Ed.D., 1970, University of Tennessee. (1970-96)

**Davidson, Phyllis M., Professor, Human Sciences; Interim Director, Professional Laboratory Experiences**

B.S., 1964, Tennessee Technological University; M.A., 1970, Tennessee Technological University; Ph.D., 1985, The University of Tennessee. (1995-2002)

**Davis, Buleah, Professor Emeritus, Health, Physical Education, Recreation, and Safety**

B.S., 1936, Middle Tennessee State College; M.A., 1942; Ed.S., 1960, George Peabody College. (1944-80)

**Dean, Charles J., Associate Professor Emeritus, English**

A.B., 1953; B.D., 1956, Vanderbilt University; M.A., 1968, Columbia University; Graduate Study, Auburn University. (1962-99)

**Dement, Kelly, Manager, Phillips Bookstore**

(1967-2003)

**Demonbreum, James Robert, Quality Control Coordinator**

B.S., 1970, University of West Florida. (1983-92)

**DeShazo, Ramon, Associate Professor, English**

B.S., 1936, Memphis State College; M.A., 1943, George Peabody College. (1957-76)

**Douthit, James C., Professor Emeritus, Management and Marketing**

B.S.B.A., 1958; M.B.A., 1959, University of Arkansas; D.B.A., 1973, Mississippi State University. (1964-96)

**Doyle, Patrick J., Professor, Biology**

A.B., 1962, Buena Vista College; M.A., 1965, Middle Tennessee State University; Ed.D., 1972, Indiana University. (1966-2002)

**Drennan, Cynthia Belcher, Associate Dean, Division of Continuing Studies and Public Service**

B.Mus., 1959, Converse College; M.Mus., 1965, George Peabody College; Ed.S., 1981, Middle Tennessee State University; Ed.D., 1984, Tennessee State University. (1985-98)

**Drennan, Henry Dalton, Professor Emeritus, Business Education, Marketing Education, and Office Management**

B.S., 1952; M.A., 1956; Ed.S., 1963, George Peabody College; Ed.D., 1969, University of Mississippi. (1961-97)

**Ducker, Paul E., Assistant Professor, Chemistry and Physics**

A.B., 1939, Indiana Central College; B.D., United Theological Seminary; M.A., 1963, Middle Tennessee State College. (1965-80)

**Duke, John R., Professor Emeritus, Music**

B.S., 1954; M.A., 1960; Ph.D., 1971, George Peabody College. (1970-96)

**Duggin, Calvin, Associate Professor, Industrial Studies**

B.S., 1950, Middle Tennessee State College; M.S., 1954, Alabama Polytechnic Institute; Graduate Study, University of Tennessee. (1959-86)

**Dunn, Charlie M., Director, Vocational-Technical Education**

B.S., 1953, Middle Tennessee State College; M.S., 1956, University of Tennessee. (1974-84)

**Durham, Charles, Professor Emeritus, English**

B.S., 1963, Middle Tennessee State University; M.A., 1964; Ph.D., 1969, Ohio University. (1966-98)

**Earle, James P., Assistant Professor, Health, Physical Education, Recreation, and Safety**

B.S., 1958; M.A., 1962, Middle Tennessee State College. (1965-92)

**Embry, Donald E., Professor, Educational Leadership**

B.S., 1959; M.S., 1964, Butler University; Ed.D., 1973, Ball State University. (1996 -2001)

**England, Theora, Instructor, Speech and Theatre**

B.A., 1925, Simpson College; M.A., 1952; Ph.D., 1964, University of Minnesota. (1974-75)

**Essex, Frank W., Professor Emeritus, Political Science**

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**Martin, Norman, Manager, Athletic Budgets**

B.S., 1964, Middle Tennessee State University. (1966-97)

**Mason, Franklin Curtis, Professor, Physics and Astronomy**

B.S., 1959, Middle Tennessee State College; M.A.T., 1960, Vanderbilt University; M.S., 1965, Miami University of Ohio; Ph.D., 1972, Ohio State University. (1972-96)

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**McCord, Richard L., Professor, Mathematical Sciences**

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**Sawyer, Joe E., Associate Professor, Business Education, Marketing Education, and Office Management**

B.S., 1957, Troy State College; M.A., 1963; Graduate Study, University of Alabama, University of Oklahoma. (1963-2003)

**Scales, Mary C., Associate Dean, Continuing Education and Public Service**

B.S., 1961, Tennessee State University; M.Ed., 1967, Middle Tennessee State University. (1982-87)

**Schukert, Michael A., Professor, Aerospace**

B.A., 1963, University of Arizona; M.Ed., 1969, University of Florida; Ph.D., 1976, Ohio University. (1988-2000)

**Scott, Dan, Professor Emeritus, Chemistry and Physics; Department Chair**

B.S., 1950, Middle Tennessee State College; M.A., 1954; Ph.D., 1963, George Peabody College. (1955-92)

**Scott, Margaret W., Associate Professor, Librarian**

B.S., 1966, Middle Tennessee State University; M.L.S., 1969, George Peabody College; M.A., 1984, Middle Tennessee State University. (1971-92)

**Self, Helen H., Assistant Professor, Elementary and Special Education**

B.A., 1949, University of Alabama; M.Ed., 1962, Auburn University; Ed.D., 1969, University of Alabama. (1972-81)

**Shewmake, Ivan, Director, Student Ombudsman**

B.S., 1972; M.A., 1974, Middle Tennessee State University. (1974-98)

**Sikes, Lewright, Professor Emeritus, History**

A.B., 1966, Maryville College; M.A., 1968; Ph.D., 1973, University of Tennessee, Knoxville. (1969-96)

**Singer, David, Professor, Educational Leadership**

B.S., 1955; M.A., 1958, Middle Tennessee State College; Ed.D., 1968, Wayne State University. (1968-96)

**Smith, Harold, Director, Student Unions and Programming; Interim Dean, Student Services**

B.S., 1966; M.A., 1970, Middle Tennessee State University. (1968-2003)

**Smith, Joseph, Professor Emeritus, Music**

B.S., 1951; M.A., 1957, Middle Tennessee State College. (1957-94)

**Smith, Judy, Instructor, Sociology, Anthropology, and Social Work; Associate Dean of Students**

B.S., 1960, Middle Tennessee State University; M.S.S.W., 1962, School of Social Work, University of Tennessee. (1966-94)

**Smith, Patricia H. Grimes, Associate Professor, Educational Leadership**

B.A., 1959, Hunter College; M.Ed., 1972; M.Ed., 1974; Ed.S., 1976; Ed.D., 1982, Florida Atlantic. (1998-2003)

**Smith, Rebecca L., Associate Professor, Librarian**

B.S., 1949, David Lipscomb College; M.A., 1952, George Peabody College. (1969-88)

**Smotherman, Charlotte, Assistant Professor, Home Economics**

B.S., 1941, Tennessee Technological University; M.A., 1942, George Peabody College. (1966-79)

**Smotherman, William C., Director, Construction Administration and Environmental Health and Safety**

B.E., 1959; Graduate Study, Vanderbilt University. (1973-2000)

**Solomon, A.H., Professor Emeritus, Health, Physical Education, Recreation, and Safety**

A.B., 1956, Union College; M.A., 1960; Ed.D., 1968, George Peabody College. (1969-97)

**Spraker, Harold Stephen, Professor Emeritus, Mathematics and Statistics; Department Chair**

B.S., 1950, Roanoke College; M.E., 1955; Ed.D., 1960, University of Virginia. (1960-92)

**Stancliff, Leon Donald, Associate Professor, Chemistry and Physics**

A.B., 1953, David Lipscomb College; M.A., 1961; Ed.S., 1976, Middle Tennessee State University. (1961-88)

**Stanford, John E., Assistant Professor, Health, Physical Education, Recreation, and Safety; Athletic Planning**

B.S., 1962; M.A., 1964, Middle Tennessee State University. (1973-96)

**Staley, James G., Coordinator, Receiving Services**

B.S., 1963; M.S., 1966; Ph.D., 1970, University of Tennessee. (1977-98)

**Steward, James F., Professor Emeritus, Business Education, Marketing Education, and Office Management**

B.S., 1969, Memphis State University; M.A., 1971, George Peabody College; Ed.D., 1982, Vanderbilt University. (1982-2000)

**Strobel, Eugene F., Associate Professor, Biology**

B.S., 1951; M.A., 1951, George Peabody College; Graduate Study, Louisiana State University. (1968-94)

**Strobel, Katherine B., Professor Emeritus, Health, Physical Education, Recreation, and Safety**

B.S., 1952, Delta State Teachers College; M.A., 1954, Texas State College for Women; Ph.D., 1986, Texas Women's University. (1971-96)

**Stubblefield, Mary Frances, Professor Emeritus, Mathematical Sciences**

B.S., 1946, Tennessee Polytechnic Institute; M.A., 1958; Graduate Study, George Peabody College. (1959-97)

**Taylor, Robert Love, Jr., Professor, History**

B.A., 1961, Vanderbilt University; M.A., 1964; Ph.D., 1971, University of Tennessee. (1969-2002)

**Taylor, Thomas A., Manager, Operations, Office of Information Technology**

(1971-96)

**Tenpenny, Ann, Professor Emeritus, Nursing**

R.N., 1954, Henry Ford Hospital; B.S.N., 1962; M.S.N., 1963, Wayne State University. (1967-94)

**Terrell, R. Paul, Professor, Geography and Geology**

B.S., 1937, Western Kentucky; M.A., 1941, George Peabody College; Ph.D., 1949, Clark University. (1969-80)

**Todd, Aaron W., Professor Emeritus, Chemistry**

B.S., 1959; Ph.D., 1964, Georgia Institute of Technology. (1963-99)

**Todd, Fowler I., Professor Emeritus, Management and Marketing**

B.S., 1940, Murray State Teachers College; M.A., 1956, George Peabody College; Ph.D., 1965, University of Illinois. (1965-83)

**Truitt, Samuel, Professor, Mathematical Sciences**

B.S., 1966; M.S., 1968; Ph.D., 1970, University of North Carolina. (1970-2003)

**Tucker, Dorethe, Professor Emeritus, Speech and Theatre**

B.S., 1956, Middle Tennessee State College; One Year Study, American Academy of Dramatic Arts. (1956-81)

**Turner, Jack J., Associate Professor, Political Science**

A.B., 1959, Berea College; Ph.D., 1969, University of Kentucky. (1965-2000)

**VanDervort, Thomas R., Professor Emeritus, Political Science**

A.B., 1960, University of Tennessee; M.A., 1962, Tufts University; Ph.D., 1967, University of Tennessee. (1963-98)

**Vermillion, William H., Jr., Professor, Psychology**

B.A., 1959, Northwestern University; M.S., 1961; Ph.D., 1964, Purdue University. (1972-2001)

**Vickrey, Thomas L., Professor, Mathematics and Statistics**

B.S., 1952; M.A., 1960, University of Oklahoma; Ed.D., 1968, Oklahoma State University. (1969-90)

**Voorhies, Edwin S., Professor Emeritus, Industrial Studies; Dean, School of Basic and Applied Sciences**

B.S. in M.E., 1942, Georgia School of Technology; M.A., 1953, Middle Tennessee State College; Ed.D., 1965, University of Tennessee. (1957-85)

**Wall, B.J., Associate Professor, Engineering Technology and Industrial Studies**

B.S., 1956; M.S., 1973, University of Tennessee; P.E., 1974. (1980-2000)

**Ward, James L., Professor, Sociology**

B.A., 1934; M.S., 1958, Henderson State College; Ed.D., 1968, University of Mississippi. (1971-75)

**Warren, Jessie H., Vice President for Administration**

B.S., 1959; M.A., 1963; Ed.S., 1981, Middle Tennessee State University; Ed.D., 1984, Tennessee State University. (1988-92)

**Wasson, Woodrow, Professor, Sociology, Anthropology, and Social Work**

A.B., 1939; M.A., 1940, Vanderbilt University; B.D., 1942; Ph.D., 1947, University of Chicago; M.L.S., 1967, George Peabody College. (1969-80)

**Watts, Exum D., Professor, Chemistry and Physics**

B.S., 1948; M.A., 1948, George Peabody College; Ph.D., 1954, Vanderbilt University. (1954-91)

**Wells, Marilyn, Professor Emeritus, Sociology and Anthropology**

A.B., 1951, Randolph Macon College; M.A., 1966, Middle Tennessee State University; Ph.D., 1979, University of Tennessee, Knoxville. (1966-98)

**Wells, Marion R., Professor, Biology**

B.S., 1960; M.A., 1963, Memphis State University; Ph.D., 1971, Mississippi State University. (1964-2002)

**Whaley, Martha A., Professor, Health, Physical Education, Recreation, and Safety; Department Chair**

B.S., 1957; M.A., 1962; Ed.D., 1967, University of Alabama. (1966-2003)

**Whicker, Peggy Monfee, Fourth Grade, Pittard Campus School**

B.S., 1964; M.Ed., 1972, Middle Tennessee State University. (1970-90)

**White, Ralph L., Professor Emeritus, Educational Leadership**

B.S., 1954, University of Tennessee; M.A., 1956, George Peabody College; Ed.D., 1960, University of Tennessee. (1967-96)

**Wilcox, Sondra Elaine, Professor, Health, Physical Education, Recreation, and Safety**

B.S., 1958, David Lipscomb College; M.A., 1963; Ed.S., 1968, George Peabody College; Ed.D., 1976, Boston University. (1963-2003)

**Wilkinson, Virginia, Associate Professor, Librarian**

B.S., 1938, Middle Tennessee State College; M.A. in L.S., 1952, George Peabody College. (1952-80)

**Williams, Jerry W., Professor, Agribusiness and Agriscience**

B.S., 1965; M.S., 1966, East Texas State University; Ph.D., 1975, University of Tennessee. (1966-2003)

**Williams, John D., Professor, Elementary and Special Education**

B.S., 1943; M.S., 1946, University of Tennessee; Ed.D., 1954, University of Tennessee, Knoxville; Post-doctoral Scholar, University of California at Los Angeles. (1964-91)

**Windham, William Thomas, Professor Emeritus, History; Department Chair**

B.S., 1946, Illinois Institute of Technology; M.A., 1950; Ph.D., 1955, University of Alabama. (1955-89)

**Wiser, C. Wymer, Professor Emeritus, Biology**

B.S., 1945, Harding College; M.A., 1946, George Peabody College; Ph.D., 1956, Vanderbilt University. (1956-95)

**Wolfe, William R., Professor Emeritus, English**

A.B., 1960, St. Ambrose College; M.A., 1964, Marquette University; Ph.D., 1972, University of Virginia. (1969-96)

**Womack, Morris W., Assistant Professor, Developmental Studies**

B.S., 1963, Ball State Teacher's College; M.S.T., 1986; Ed.S., 1992, Middle Tennessee State University. (1987-2003)

**Wood, Randall C., Associate Professor, Aerospace; Department Chair**

B.S., 1947, Middle Tennessee State College; M.A., 1949, George Peabody College; F.A.A. Instrument Flight Instructor, 1968. (1968-84)

**Woods, Alvin Edwin, Professor Emeritus, Chemistry**

B.S., 1956, Middle Tennessee State College; M.S., 1958; Ph.D., 1962, North Carolina State College. (1961-98)

**Wrenn, Robert Winston, Director, Student Financial Aid**

B.S., 1963; M.S., 1971; Ed.S., 1976, Middle Tennessee State University. (1973-97)

**Wyatt, Jacqueline E., Professor, Computer Information Systems**

B.S.B.A., 1971, Franklin University; M.B.A., 1973, Xavier University; C.D.P., 1977; Ed.D., 1980, University of Cincinnati; C.D.E., 1985; C.P.I.M., 1988; B.S., 1988, Middle Tennessee State University. (1986-2000)

**Yates, Frank H., Jr., Director, Institutional Research**

B.A., 1948, David Lipscomb College; M.A., 1950; Ed.D., 1960, George Peabody College. (1973-89)

**Young, Joseph Earl, Professor, Agribusiness and Agriscience**

B.S., 1952, Southwestern Louisiana University; M.S., 1957, North Carolina State College. (1957-95)

**Youree, Beverly W., Professor, Educational Leadership**

B.A., 1969, Union University; M.L.S., 1970, George Peabody College; Ed.D., 1984, George Peabody College at



Vanderbilt University. (1970-98)

# Student Access to Educational Records

## Definitions

Educational Records are those records, files, documents, and other materials which (1) contain information directly related to a student, and (2) are maintained by Middle Tennessee State University or by a person acting for the University. "Records" means information recorded in any medium, including, but not limited to, the following: handwriting, print, tapes, film, microfilm, and microfiche. Educational records do not include (1) personal notes, (2) records available only to law enforcement personnel, (3) employment records, (4) medical and psychiatric records (these are accessible by the student's physician).

For all nondisciplinary purposes, a student is any person who is or has been enrolled (registered for at least one class) at Middle Tennessee State University. An applicant who does not enroll or who is declared ineligible has no inherent right to inspect his or her file. Wherever "student" is used in reference to personal rights, an eligible parent of a dependent student has similar rights. This "eligible" parent is one who has satisfied Section 152 of the Internal Revenue Code of 1954 and who presents such proof to the custodian of the educational records. Normally this proof will be a certified copy of the parent's most recent federal income tax form.

Directory information includes the student's name, address (including e-mail), telephone listing, year and place of birth, major field of study, enrolled hours, student level (freshman, sophomore, etc.) participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the student. A student may request that such directory information not be released to anyone other than those persons defined as school officials. To do so, a Request for Nonrelease of Directory Information must be filed in the Records Office, Cope Administration 106.

The request is valid until the student completes a Cancellation of Request for Nonrelease of Directory Information form at the Records Office.

A school official is a person employed by the University as an administrator, instructor, supervisor, or support staff member.

A legitimate educational interest exists if the official needs to review an educational record to fulfill his or her professional responsibility.

Having access to an educational record means being allowed to see the original record.

## Release of Personally Identifiable Student Educational Records

Middle Tennessee State University shall not permit access to or the release of any information in the educational records of any student that is personally identifiable (other than di-

rectory information) without the written consent of the student to any party other than the following:

1. MTSU officials and staff who have legitimate educational interests;
2. officials of other schools in which the student seeks admission;
3. appropriate persons in connection with a student's application for, or receipt of, financial aid;
4. federal or state officials as defined in paragraph 99.37 of the Family Educational Rights and Privacy Act of 1974;
5. state and local officials authorized by state statute;
6. organizations conducting studies for or on the behalf of MTSU for the purpose of assisting in accomplishing the University's stated goals, when such information will be used only by such organizations and subsequently destroyed when no longer needed for the intended purpose;
7. accrediting organizations, to carry out their functions;
8. parents of a dependent student as defined in section 152 of the Internal Revenue Code of 1954 (Written consent may be allowed from either of these separated or divorced parents subject to any agreement between the parents or court order. In the case of a student whose legal guardian is an institution, a party independent of the institution, appointed under state and local law to give parental consent, may be allowed to do so.);
9. in compliance with judicial order or subpoena, provided that the student is notified in advance of the compliance unless the issuing court or agency has ordered that the existence or the contents of the subpoena or the information furnished not be disclosed; or
10. appropriate persons in connection with an emergency if such knowledge is necessary to protect the health or safety of a student or other persons.

**NOTE:** With the exception of MTSU officials and staff who have been determined by the University to have legitimate educational interests, all individuals and agencies who have requested or obtained access to a student's record (other than directory information) will be noted in a record which is kept with each student's Educational Record. A request must be in writing stating the purpose of the request. This record will also indicate specifically the legitimate interest that the persons or agency had in obtaining the information.

## Procedures for Accessing Educational Records

Eligible students have a right to inspect and review their Educational Records. To do so the student must request the custodian make the records available. The student may ask for an explanation and/or a copy of the record. (The price of the copies shall not exceed the cost of duplicating the record.) The records shall be made available within 45 days after the request. After consultation with the custodian the student may seek amendment of the records the student believes to be inaccurate, misleading, or otherwise in violation of the student's privacy rights. If there is a disagreement between the student and the custodian as to the correctness of the data contained in the record, the student may submit a request for a formal hearing. The request and the formal challenge to the content of the records must be presented in writing to the chair of the Student Appeals Committee. The chair shall call a meeting no later than 45 days after receipt of the written appeal and challenge. The committee will allow the student to present evidence to substantiate appeal and shall render a written decision to the student within 45 days after the meeting.

## 360 Student Access to Educational Records

Complaints of alleged failure of the institution to comply with the Family Educational Rights and Privacy Act may be filed with the Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue, SW, Washington, D.C. 20202-4605.

**NOTE:** This procedure does not provide for a hearing to contest an academic grade.

### Exclusions

Right of access does not include

1. financial records of parents or any information therein;
2. confidential letters and statements of recommendation placed in the educational record of a student prior to January 1, 1975;
3. records to which access has been waived by a student. (This ap-

plies only if a student, upon request, is notified of the names of all persons making confidential recommendations and if such recommendations are used solely for the purpose for which they were intended.)

### Destruction of Educational Records

Educational records may be destroyed except that a student shall be granted access prior to destruction if such is requested.

### Informing Students

MTSU informs its students of the policy governing privacy rights of students' Educational Records by publishing the policy in the University Catalogs. *A listing of the types of records and related information follows.*

# Educational Records at MTSU

Type of Educational Record	Information in Record	Persons with Access	Custodian Who Reviews/Expunges Record
Academic Record	Courses, grades, degrees, entrance examination scores	Faculty/staff with official need	Director of Records
Locator Information	Personal address, e-mail addresses, telephone no., class schedule	Faculty/staff with official need	Director of Records
Nonrelease Lists	Information concerning nonrelease of records	Faculty/staff with official need	Director of Records
Withdrawal Records	Demographic; reason for withdrawal	Faculty/staff with official need	Coordinator of University Withdrawals and Director of Records
Student Folder (Undergraduate)	Application for admission, receipt for admission fee, high school transcript, previous college transcript, general correspondence, admission test scores	Faculty/staff with official need	Director of Records
Student Folder (Graduate)	Application for admission receipt for admission fee, previous college transcripts, general correspondence, references, test scores (Miller's Analogy, Cooperative English, GRE, ACTSB, GMAT, TOEFL)	Faculty/staff with official need	Dean of College of Graduate Studies
Application to Upper Division Form	Name, degree, major, minor(s)	Faculty/staff with official need	Director of Records
Teacher Reports of Incomplete, Change of Grade Forms	Grades for particular courses	Faculty/staff with official need	Director of Records
Grade Records	Students in each class and final grade	Faculty/staff with official need	Director of Records
Drop/Add Forms/Transactions	Class change data	Faculty/staff with official need	Director of Records
Change of Major Academic Program Forms	Major change, advisor's name	Faculty/staff with official need	Department/School of Major

Type of Educational Record	Information in Record	Persons with Access	Custodian Who Reviews/ Expunges Record
Military Veteran's Files	Enrollment data, dates of attendance	Faculty/staff with official need	Director of Records
Change of Name, Address, Telephone Number Form/ Transaction	Name, address, telephone number changes	Faculty/staff with official need	Director of Records
Transcripts from Previous Institutions	Courses and grades	Faculty/staff with official need	Director of Records
Test Scores (ACT/SAT, GED, academic assessment)	Scores on tests required for admission	Faculty/staff with official need	Director of Admissions
Application for Admission	Demographic	Faculty/staff with official need	Director of Admissions
Residency (undergraduate, graduate)	Residency classification and information	Faculty/staff with official need	Director of Admissions Dean of College of Graduate Studies
Financial Statement (International) Admissions Test Scores	Information concerning student's finances	Faculty/staff with official need	Director of International Programs and Services
Educational Experiences Form (International)	Student's previous schooling	Faculty/staff with official need	Director of International Programs and Services
Form I-20 (International)	Eligibility certificates for international students	Faculty/staff with official need	Director of International Programs and Services
Resumes and References	Personal data; personal recommendations	Faculty/staff with official need	Career and Employment Officer
Discipline	Violations and penalties	Personnel in Dean of Students' Office	Dean of Student Life
Counseling Record	Demographic and counseling summary	Individual Student	Director of Guidance Services
Payroll	Payments, withholdings	Payroll clerks, office supervisors	Business Manager
Payroll, Facilities Services	Number of hours worked and rate of pay	Facilities Services Office director/supervisor	Director of Facilities Services
Loans	Amount borrowed, repayments, correspondence	Loan supervisor and clerks in Loan Office	Bursar
Student Receivables	Amounts due from students for various reasons, i.e., rents, parking violations, fee errors	Business Office staff	Bursar
Dishonored Checks	Amounts of checks, correspondence, etc.	Business Office staff	Bursar
Student Deposits	Deposit amounts, date deposited, purpose, etc.	Business Office staff	Bursar
Student Registration Records (Payments)	Fees paid, type, etc.	Business Office staff	Bursar
Sun Belt Conference Eligibility List	Student's academic standing for eligibility to participate in intercollegiate athletics	Staff	Athletic Director

# How to Obtain Applications

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## MTSU Undergraduate Admission Application

**New applicants  
apply online!**

[www.applyweb.com/aw?mtsu](http://www.applyweb.com/aw?mtsu)

**Reenrolling applicants:** [www.mtsu.edu/~admissn/reenrappl.html](http://www.mtsu.edu/~admissn/reenrappl.html)

A paper copy of the admission application can be obtained by one of the following methods:

**E-MAIL:** [admissions@mtsu.edu](mailto:admissions@mtsu.edu)

**WEB SITE:** [www.mtsu.edu](http://www.mtsu.edu)

**WRITE:** Admissions Office  
208 Cope Administration Building  
Murfreesboro, TN 37132

**PHONE:** (615) 898-2111  
1-800-331-MTSU (in Tennessee)  
1-800-433-MTSU (outside Tennessee)

**FAX:** (615) 898-5478

Application packets for all non-U.S. citizen applicants can be obtained from the International Programs and Services Office (IPSO) by one of the following methods:

**WEB SITE:** [www.mtsu.edu/~ipso](http://www.mtsu.edu/~ipso)

**PHONE:** 1-615-898-2238

**WRITE:** IPSO  
Keathley University Center 124  
P.O. Box 100  
Murfreesboro, TN 37132

## MTSU Housing Application and License Agreement

The housing application and license agreement are included in the *Admissions Viewbook*, available from the Undergraduate Admissions Office. To request additional housing information, or to request a housing application only, you may also contact MTSU Housing and Residential Life as follows:

**APPLY ONLINE:** [www.applyweb.com/aw?mtsuh](http://www.applyweb.com/aw?mtsuh)

**PHONE:** (615) 898-2971

**FAX:** (615) 898-5459

**ADDRESS:** Housing and Residential Life  
P.O. Box 6  
Middle Tennessee State University  
Murfreesboro, TN 37132

*Thanks for your interest in Middle Tennessee State University. We look forward to hearing from you!*