

Directory for Correspondence

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:

General Inquiries	Campus Operator (615) 898-2300
Admissions, Graduate	898-2840
Admissions, Undergraduate	898-2111
Alphabetic breakdown (by student's last name)	
Freshmen	
A-Gn	898-5631
Go-O	898-2222
P-Z	898-2199
Transfer	
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 analyst, 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	University 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 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, 2001-2003

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.

Fall Semester 2001

August 20	Classes begin
September 3	Labor Day Holiday - no classes
October 8-13	Mid-semester
October 18-20	Fall Break - no classes
November 22-24	Thanksgiving Holidays - no classes
December 7	Last day of classes
December 8-14	Final examinations
December 15	Commencement

Spring Semester 2002

January 7	Classes begin
January 21	Martin Luther King Holiday
Feb. 25-March 2	Mid-semester
March 25-30	Spring Break
March 29	University Holiday
April 30	Last day of classes
May 1-7	Final examinations
May 11	Commencement

Summer Session I 2002

May 13	Classes begin
May 31	Final examinations

Summer Sessions II, III, and IV 2002

June 3	Classes begin for Sessions II and III
July 4	Independence Day - no classes
July 5	Final examinations, Session II
July 8	Classes begin, Session IV
August 8	Final examinations, Sessions III and IV; classes meeting M-Th
August 9	Final examinations, Sessions III and IV; classes meeting M-F
August 10	Commencement

Fall Semester 2002

August 19	Classes begin
September 2	Labor Day Holiday - no classes
October 7-12	Mid-semester
October 17-19	Fall Break - no classes
November 28-30	Thanksgiving Holidays - no classes
December 6	Last day of classes
December 7-13	Final examinations
December 14	Commencement

Spring Semester 2003

January 6	Classes begin
January 20	Martin Luther King Holiday - no classes
Feb. 24-March 1	Mid-semester
March 10-15	Spring Break
April 18	Holiday - no classes
	Saturday classes meet
April 29	Last day of classes
April 30-May 6	Final examinations
May 10	Commencement

Summer Session I 2003

May 12	Classes begin
May 30	Final examinations

Summer Sessions II, III, IV 2003

June 2	Classes begin for Sessions II and III
July 3	Final examinations, Session II
July 4	Independence Day - no classes
July 7	Classes begin, Session IV
August 7	Final examinations, Sessions III and IV; classes meeting M-Th
August 8	Final examinations, Sessions III and IV; classes meeting M-F
August 9	Commencement

Fall Semester 2003

August 18	Classes begin
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Middle Tennessee State University is a member of the Tennessee Board of Regents system, the seventh largest system of higher education in the nation. The Tennessee Board of Regents is the governing board for this system which comprises six universities, fourteen 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.

Department of History

Thaddeus Smith, Chair
Peck Hall 223

Bakari, Beemon, Brookshire, Chao, Colvin, Conard, Crawford, Foster, Garrison, Hoffschwelle, Huhta, Hunt, Jones, Leone, Martin, McCusker, McWatters, Messier, Myers-Shirk, Nelson, Pruitt, Renn, Rowe, Rupprecht, Scherzer, Stahl, Staples, Taylor, West, Williams

Courses in the Department of History are designed to meet the General Studies 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 the following programs: Bachelor of Arts degree in History and 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 Studies, Area III-A, selected from HIST 2010, 2020, and 2030. Sophomore-level standing (or above) is recommended for 2010, 2020, and 2030. For General Studies, Area II-B, one course of Western Civilization (1010, 1020) or of World Civilizations (1110, 1120) may be taken (see pages 59-61).

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

Major in History (B.A.)

A major in History consists of 36 semester hours, 24 of which must be on the upper-division level. The courses must consist of 1010 or 1110; 1020 or 1120; 2010; 2020; 3010 (Historian's Craft); one course selected from each of the following areas: global, European, and U.S.; and four upper-division elective courses. The student must also fulfill all the other requirements for the B.A. degree (see page 56).

Recommended Curriculum

FIRST YEAR		SECOND YEAR	
English (Area I-A)	6	English (Area II-A)	6
Foreign Language 1010, 1020	6	Foreign Language 2010, 2020	6
HIST 1010 or 1110	3	HIST 2010, 2020	6
HIST 1020 or 1120	3	Math (Area IV-B)	3
Science (Area IV-A)	8	PHED (Area V)	2
PHED (Area V)	2	Minor(s)/Electives	12
CSCI 1000 or equivalent	1		35
Gen. Studies (Area III-B)	3		
	32		
THIRD YEAR		FOURTH YEAR	
HIST 3010	3	Upper-division history: electives	12
Upper division history: U.S. (3), European (3), Global (3)	9	Minor(s)/Electives	21
Minor(s)/Electives	21		33
	33		

Minor in History

A minor in History requires 21 semester hours, which must include HIST 2010 and HIST 2020, a minimum of 6 semester hours in non-United States courses, and a minimum of 9 semester hours at the upper-division level.

Major in History (B.A.) with Teacher Licensure

A major in History with teacher licensure consists of 36 semester hours, 24 of which must be on the upper-division level. The courses must consist of HIST 1110, 1120, 2010, 2020, 3010 (Historian's Craft); one course selected from each of the following areas: global, European, and U.S.; and four upper-division elective courses. 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) the Enhanced General Education requirements (these include and add to the General Studies requirements), and (3) the professional education requirements.

Enhanced General Education Requirements: 60 hours

ENGL 1010, 1020 - 6 hours
Foreign Language 2010 - 3 hours
ENGL 2030; ENGL 2130 or 2330 or 2230 - 6 hours
HIST 1110, 2010, 2020 - 9 hours
GEOG 2000 - 3 hours
BIOL 1030; GEOL 1030 and 1031 or PSCI 1030 - 8 hours
MATH (see General Studies for options) - 3 hours
PHED (see General Studies for options) - 4 hours
Emphasis in Economics, Geography, or Political Science -12 hours
General Studies electives (selected in consultation with advisor) - 6 hours

Professional Education Requirements (Minor)

Students must contact the minor advisor in professional education for approval of appropriate courses. (For specific procedures and additional requirements for teacher licensure, see page 184.)

Recommended Curriculum**FIRST YEAR**

English (Area I-A)	6
Foreign Language 1010, 1020	6
HIST 1110	3
HIST 1120	3
Science (Area IV-A)	8
PHED (Area V)	2
CSCI 1000 or equivalent	1
FOED 1110	3
GEOG 2000	3
35	

SECOND YEAR

English (Area II-A)	6
Foreign Language 2010, 2020	6
HIST 2010, 2020	6
Math (Area IV-B)	3
PHED (Area V)	2
FOED 2110	3
SPED 3010	3
COMM 2200	3
Minor	3
35	

JUNIOR

HIST 3010	3
Upper-division history: U.S. (3), European (3), Global (3), elective (3)	12
YOED 3050	3
SPSE 3220	3
READ 4460	3
Minor	12
36	

SENIOR

Upper-division history: electives	9
Minor	3
YOED 3100	3
YOED 4000	3
YOED 4110	12
30	

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 72.

**Courses in History [HIST]**

1010 (171) Survey Western Civilization I. Three credits. A survey of Western humanity from the earliest cultures to 1715. **May be used to satisfy a General Studies II-B requirement. Student may not take both 1010 and 1110 for credit. HIST 1010 is NOT a prerequisite for HIST 1020.**

1020 (172) Survey Western Civilization II. Three credits. A survey of Western humanity since 1715. **May be used to satisfy a General Studies II-B requirement. Student may not take both 1020 and 1120 for credit.**

1110 (191) Survey World Civilization I. Three credits. A global approach to basic history, with cultural interchange as a major thematic focus; reasons for the rise and decline of civilizations. **May be used to satisfy a General Studies II-B requirement. Student may not take both 1010 and 1110 for credit. HIST 1110 is NOT a prerequisite for HIST 1120.**

1120 (192) 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 a General Studies II-B requirement. Student may not take both 1020 and 1120 for credit.**

2010, 2020 (201, 202) 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 beginning to 1877. HIST 2020 discusses the era from 1877 to the present. **These courses are prerequisite for all advanced courses in American history. Satisfies the General Studies III-A requirement. HIST 2010 is NOT a prerequisite for HIST 2020.**

2030 (266/366) Tennessee. Three credits. The role of the state in the development of the nation.

2040 (151) 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 (152) 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 (390) 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 (312) Topics in American History.** Three credits. A detailed analysis of selected historical controversies. Topics vary from year to year.
- 3030 (378) 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 (481) 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 (380) Topics in Southern Studies.** Three credits. Detailed examination of a particular topic important to the region's society, life, and development.
- 3060 (490A) 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 (379) Topics in World History.** Three credits. A detailed examination of a topic pertinent to world history. Topics vary.
- 3080 (418) Topics in Modern Middle East History.** Three credits. A major problem or political or social development in the contemporary Middle East.
- 3090 (489) 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 (485) 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 (320) 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 (322) 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 (361) 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-Colombian times to the present.
- 3150 (310) Global History: 1945-1975.** Three credits. An integrated examination of major themes and selected area studies of the postwar world. Themes include the cold war, emergence of independent countries, economic globalization, religious stirrings, massive migrations, social revolution.
- 3160 (399) 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.
- 4010 (411) 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 (412) 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 (413) 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 (414) Civil War and Reconstruction.** Three credits. Sectional differences of the 1850s, Civil War, Reconstruction, and the Grant Era.
- 4050 (415) 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 (416) 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 of the social and political consequences of economic complexity which resulted in prosperity, depression, and the New Deal.
- 4070 (417) 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 (428) 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 (464) 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 (473) Middle Ages.** Three credits. The progress of medieval civilization with emphasis on the period from 1100 to 1300.
- 4220 (404) 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 (405) 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 (303) Europe: Absolutism and Enlightenment.** Three credits. European history in the seventeenth and eighteenth centuries, covering social, economic, intellectual, and political developments.
- 4250 (302) 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 (433) 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 (436) Europe 1815-1900.** Three credits. Nineteenth-century Europe.
- 4280 (437) 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 (438) Europe Since 1939.** Three credits. Major European countries and themes from World War II to the present.
- 4310 (439) 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 (440) 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 (441) Russia to the Twentieth Century.** Three credits. Russian history from its beginnings to the end of the nineteenth century.
- 4340 (442) Russia in the Twentieth Century.** Three credits. A continuation of 4330 emphasizing the Revolution and the Soviet era.
- 4350 (474) 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 (419) 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 (420) 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 (476) Classical History.** Three credits. Ancient Greece and Rome, from about 2,000 B.C. to 476 A.D., emphasizing the classical historians, Greek and Roman culture.
- 4420 (410) The Medieval Mediterranean World.** Three credits. Examines the political, economic, social and intellectual, and cultural development of the countries bordering the Mediterranean.
- 4430 (450) 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 (431) 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 (408) 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 (409) 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 (446) Canada.** Three credits. Canadian history from the colonial era to the present.
- 4480 (426) South America.** Three credits. Cultural, economic, and political traditions since 1492.
- 4490 (425) Mexico and the Caribbean.** Three credits. (Same as AAS 4490.) The development of cultural, economic, and political traditions since 1492.
- 4510 (421) Colonial Latin America.** Three credits. Examines the indigenous societies present before European colonization and the first encounters in Mexico, the Caribbean, and South America. Analyses political structures imposed by the Spanish as well as the social and cultural implications of colonialism and miscegenation.
- 4520 (422) 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 (424) 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 (443A) 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 (443) 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 (400) Quantitative History.** Three credits. Examines quantitative reasoning in historical research. Covers historiographical questions and practical research skills. Includes historical cau-

sality, historical change over time, data preparation, sampling, and the interpretation of quantitative data.

- 4640 (406) 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 (482) 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 (486) 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 (435) 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 (444) 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 (449) 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 (460) 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 (461A) 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 (430) American Social History.** Three credits. Examines class, ethnicity, family life, and community in America from the colonial period to the present.
- 4740 (468) 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 (470) 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 (430A) 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 (427A) 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 (427B) 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 (429) 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 (429A) 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 (447) American Diplomatic History to 1900.** Three credits. An examination of United States foreign relations to 1900.
- 4830 (448) American Diplomatic History Since 1900.** Three credits. An examination of United States foreign relations since 1900.
- 4840 (458A) 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 (483) 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 (477A) Historical Archaeology.** Three credits. Disciplines of historical archaeology, including examination of archaeological evidence, historical documentation, and interpretation of evidence.
- 4870 (477B) 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 (495H) 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 (487) Principles of Archival Administration.** Three credits. The theory, principles, and techniques employed by archivists and curators of manuscript collections. Stresses the importance of records preservation for scholars, business, government, and the public at large.
- 4920 (488) 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 (492) 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 (494) 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 (497) 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 (171H) (Fall Semester)
- History 1020 (172H) (Spring Semester)
- History 1110 (191H) (Fall Semester)
- History 1120 (192H) (Spring Semester)
- History 2010 (201H) (Fall Semester)
- History 2020 (202H) (Spring Semester)
- History 4898 (495H) (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.



University Administrative Officers

Office of the President

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Kimberly S. Edgar, executive assistant

Tammie C. Allen, administrative assistant

Affirmative Action/Equal Opportunity, Forrestine Williams, director

Athletics, Boots Donnelly, interim director

Internal Auditor, Brenda Burkhart, director

Academic Affairs, Division of

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Robert B. Jones, associate provost

Rebecca Cole, associate vice president for academic resources

Faye Johnson, assistant to the provost and vice president

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Aging Studies, Ron Aday, director

Centers of Excellence

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Popular Music, Paul F. Wells, director

Cooperative Education, Wayne Rollins, director

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

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Global Studies, Anne T. Sloan, director

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Speech and Theatre, Russell Church, chair

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Ami Carter, assistant to the dean

Journalism, Richard Campbell, school director

Radio-Television/Photography, Robert W. Spires, interim chair

Recording Industry, Chris Haseleu, chair

WMOT, John High, general manager

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John Lynch, advancement data management director

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 J. David Hays, associate vice president and dean of Student Life
 Debra Sells, dean of Academic Support Services and director of Housing and Residential Life

Adult Services Center, Carol Ann Baily, director

Campus Recreation Center, Charles Gregory, interim director

Career and Employment Center, Martha Turner, director

Disabled Student Services, John Harris, director

Financial Aid, David Hutton, director

Guidance Services, Jane Tipps, director

Multicultural Affairs, Ralph Metcalf, director

Student Development, Gina Poff, director

Student Health Center, Richard Chapman, director

Student Life, Gene Fitch, associate dean

University Center and Student Programming, Harold Smith, director

Women's Center, Candace Rosovsky, director

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 Riley C. Darnell, Secretary of State, Nashville
 William Ransom Jones, Chair, Murfreesboro
 Mayor Dale Kelley, Secretary, Huntingdon
 Debby Patterson Koch, Nashville
 Joe Lancaster, Columbia
 Wanda McMahan, Knoxville
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 John Morgan, Comptroller, Nashville
 Lisa Verble, Sevierville
 A.C. Wharton, Vice Chairman, Memphis
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 Noble Cody, Cookeville
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 Jane G. Kisber, Jackson
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 Leslie Pope, Johnson City
 Richard G. Rhoda, Executive Director, THEC, Nashville
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 Maxine Smith, Memphis
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 Dan Wheeler, Commissioner of Agriculture, Nashville
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Accrediting Agencies and Memberships

AACSB - The Association to Advance Collegiate
Schools of Business

Accrediting Council on Education in Journalism
and Mass Communications

Accreditation Board for Engineering and Technology

American Alliance for Health, Physical Education,
Recreation and Dance

American Association of Airport Executives Council
on Aviation Accreditation

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

Computing Science Accreditation Board

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 Commission for Health Education Credentialing, Inc.

National Council for Accreditation of Teacher Education

National Intercollegiate Flight Association

National League for Nursing, Accrediting Commission

National League for Nursing Council of Baccalaureate
and Higher Degree Programs

National Recreation and Parks Association

Southern Association of Colleges and Schools

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 College Association

The College Board

The Renaissance Group

University Aviation Association

Academic Support

Middle Tennessee State University has a large and beautifully landscaped campus of approximately 500 acres and 116 permanent buildings totaling almost 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 five academic college advisors, one per undergraduate college: Basic and Applied Sciences, Business, Education and Behavioral Science, Liberal Arts, and Mass Communication. 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. Any student seeking academic assistance is encouraged to contact an academic college advisor. Also, the academic advisor for undeclared freshmen assists students in selecting a major.

Center for Energy Efficiency

The Center for Energy Efficiency (CEE), established in 1998 under the vice president for Finance and Administration in cooperation with Academic Affairs, is interested in providing facilities support to the campus to upgrade the infrastructure and to improve operations and maintenance. The CEE promotes economic and environmental awareness and stewardship by providing educational and training opportunities and experience for the students, faculty, administration, and others in the community. Through association with DOE's Rebuild America, EPA's Energy Star and Green Lights, and Tennessee's State Building Energy Management Program, the CEE supports campus, classroom, and community efforts to accomplish energy efficiency and provides 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 HealthCare 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 (Engineering Tech-

nology and Safety), Exercise Science and Health Promotion, Family and Consumer Studies, Health Education, Health Sciences (nuclear medicine technology, 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 was established in 1984. It is a research and public service institute committed to the identification, conservation, protection, and enhancement 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 six 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 is a national Web site for teachers.

Heritage tourism is specifically directed at research and methods for communities to use to attract and increase visitation to local cultural and historic sites while protecting and interpreting these significant resources. The center's current projects include the development of the National Heritage Area on the Civil War in Tennessee (www.mtsu.edu/~tncivwar).

Building technology and architectural conservation involves research methodology and technology for dating, analyzing, and applying restoration techniques. The center offers assistance with paint and wallpaper analysis and structural investigation and recommendations. The center is the

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lead agency in a national project on curatorial standards for architectural fragment collections.

Information resources management includes the center's computer resources, such as autocad drawings, access to preservation databases, desktop publishing, and other necessary support programs for the development and completion of projects in each of the center's initiatives.

Museum and historic sites 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 to three historic preservation courses each year for the Department of History and direct selected theses. The center also funds a limited number of graduate research assistantships 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 library and facilities are visited by and serve students, interested individuals, and preservation professionals.

One recent project, *The Tennessee Encyclopedia of History and Culture*, is a partnership among the center, the Tennessee Historical Society, and the Tennessee General Assembly, to produce a modern, comprehensive reference book on history and culture. The book was released in 1998.

Center for Popular Music

One of two Centers of Excellence at MTSU, the Center for Popular Music is an interdisciplinary research center devoted to promoting scholarship in and disseminating information on American popular music. The center recognizes popular music as a unique form of human expression that is shaped by a variety of socio-cultural, artistic, commercial, and technological factors and as one which has always occupied a significant place in American cultural history. In support of its aims, the center maintains an extensive archive and sponsors various research projects, publications, and public programs.

The center's research collection is broadly representative of the diversity of American vernacular music, while being particularly strong in its holdings of music of the southeast. Rock and roll (and its roots) and the many forms of vernacular religious music are major focuses of the collection. Holdings encompass a variety of media, including sheet music, sound recordings, audio and video tapes, books, serials, photographs, posters, manuscripts, clippings, and microforms.

The center is engaged in an extensive program of activities, including sponsoring lectures, conferences, and symposia; producing concerts of historical popular music; and producing extensively-annotated sound recordings.

The center's resources support undergraduate, graduate, and faculty research in a variety of disciplines and departments.

Noteworthy among these are the Department of Recording Industry, the Music Industry concentration in the School of Music, the Public History Program in the History Department, and the interdisciplinary Southern Studies and African American Studies minors. The center's resources also serve the music industry, scholars from other institutions in North America and Europe, trade and university presses, and the broadcast media.

Day Care Laboratory

The MTSU Day Care Laboratory provides a safe, healthy, and stimulating environment where children ages three to five can stay on a half-time basis (either Monday, Wednesday, Friday or Tuesday, Thursday) while their parents are at school. The maximum capacity is 24 children per day with the following enrollment priorities:

1. children of students who need part-time care (first priority in Fall and Spring Semesters);
2. children of students who need full-time time care (first priority in the Summer Semester);
3. children of University employees;
4. children of community residents.

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 HealthCare 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 (1938-1971) form the largest and one of the most important collections in the repository.

Information Technology

The MTSU Office of Information Technology (OIT) manages and supports information technology resources on campus. OIT manages the campus network and MTSU's primary academic and administrative computing systems, provides telecommunications services, promotes and supports instructional technology, provides academic computing support, provides technical support, supports MTSU's primary administrative applications such as student information, Web and telephone registration, and oversees the campus ID system. For more information, see the OIT Web site at www.mtsu.edu/~oit.

Any MTSU student, faculty, or staff member may have an account on the central server for accessing on-campus resources as well as state, regional, national, and international networks including Internet. Accounts for MTSU students are generated upon completion of registration. To activate that account, access the MTSU home page from any Internet accessible computer, click on the Computing Accounts button, and read through the information about your campus computer account—especially the directions on deciding on an acceptable password. Following the onscreen directions, go to www.mtsu.edu/changepw and enter your student identification information and password. The account will be ready to use within 10 minutes. Faculty and staff accounts are created on completion of an application. These application forms are available in the Office Information Technology (OIT), in the basement of Cope Administration Building, Room 3, or at the OIT Help Desk (898-5345).

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, faculty and graduate student multimedia de-

velopment centers, a twenty-first century classroom, a video conferencing classroom, and a satellite video conferencing center.

Two Pentium computer labs are available in the ITSC for use by faculty and students. Computers in both labs have access to the campus network. 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 (<http://www.mtsu.edu/~itsc>). Faculty and graduate students can create multimedia lectures 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 downlinking. Audio/Visual Services also offers professional video production services for MTSU faculty and administrators, including studio production, remote production, and post production.

Instructional Media Resources (IMR) manages a large collection of videotapes, audio tapes, slides, filmstrips, computer software, CD-ROMs, and laserdiscs available for faculty use in classrooms and for on-site use by students. Instructional Media Resources also has typewriters and both Macintosh and Pentium computers available for walk-in use by faculty and students. Faculty can reserve IMR materials and place their own multimedia resources on reserve in Instructional Media Resources for on-site use by their students.

The **Satellite Video Conferencing Center** offers quality educational programming to K-12 schools by satellite to six rural Tennessee counties and by cable television to viewers in Murfreesboro and Rutherford County. The satellite facilities can be scheduled by units across campus for local, state-wide, or national broadcast of special events and programs. Both digital and analogue 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;
- recreational facilities for activities such as billiards, ping-pong, cards, chess, checkers, and electronic games;
- 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.

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 multi-purpose 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 ticket office and student ID office are also 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.

University Library

The University Library provides access to information from its own collections and from resources around the world. In addition to printed volumes of books, reference sources, and government documents, the library contains periodicals, newspapers, and research titles in microtext. The library receives many subscriptions to periodicals and also serves as a

partial depository for United States government publications. A broad variety of electronic databases are purchased by the library and licensed for student use.

A new central 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, projects, and student research. In addition, recreational reading materials and other information are available. The new facility provides many kinds of study areas as well as 350 computers for accessing both local and international information resources. Special features of the new library include an Adaptive Technologies Center to meet needs of students with disabilities and small group study rooms.

Students are encouraged to ask librarians about the kinds of available materials and about the methods for retrieving information. Librarians are available at the main floor Reference/Information Desk. A student ID card is required to check out library materials. Library policies help to make library resources accessible to every student. Various research guides are published by the library to provide further information about collections and services. More information on these and other aspects of library service at MTSU can be found on the library's Web site at <http://www.mtsu.edu/~library>.



Continuing Studies and Public Service

Rosemary Owens, Dean
Cope Administration Building 113

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 non-credit. The credit area coordinates distance learning, off-campus courses, summer school, evening classes, and the Regents Online Degree Program. The non-credit area caters to professionals interested in updating skills, groups or organizations desiring some type of educational experience, or persons needing any of the non-credit 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.

Credit Area

Distance Learning Courses

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

- **Video Conferencing Courses** - Video conferencing courses send the instructor's "live" lectures at MTSU to students at the remote sites. Sites include Spring Hill, Motlow State Community College, and Columbia State Community College. The video conferencing classrooms are equipped with TV monitors and push-to-talk microphones so that the 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 McWhorter 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) 898-5374 or visiting the telecourse home page at www.mtsu.edu/~tlcourse.
- **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 takes 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.

- **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/~netcour.

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 and issuing parking permits, as well as offering other services to the student 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, Motlow State Community College, 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 Studies requirements; and meet MTSU GPA requirements, as well as 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 instructed totally online in an interactive, asynchronous format.

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

Non-credit Area

Courses, Seminars, and Conferences

The non-credit area assists groups and individuals in the planning, advertising, coordinating, and delivery of courses, seminars, and conferences. Various non-credit courses are offered each semester as well as upon demand. They are intended to serve business, industry, government, education, professional organizations, and civic and service groups. A current course catalog is available by calling (615) 898-2462.

Computer and career programs are offered on campus for individuals trying to upgrade skills to advance themselves in the workplace or for personal development. Career consulting is available on a one-to-one basis using career software. Computer courses provide hands-on learning using current software packages as well as courses relating to the Internet and PC maintenance.

Children, teens, adults, and senior adults can choose from courses ranging from leisure and recreation programs to personal enrichment. Children and teens selections include summer day camps, art and drama programs, and gymnastics. Adults can pick from exam prep courses, foreign languages, recreation activities, and English as a Second Language. Elderhostel and other programs are offered for senior adults.

Continuing Education units (CEUs) are awarded to persons successfully completing most of the special interest activities. The Southern Association of Colleges and Schools defines a CEU as "ten contact hours of participation in an organized continuing education experience under responsible sponsorship, capable direction, and qualified instruction." The CEU provides a standard unit of nationally recognized measurement whereby business, industry, and professions may grant appropriate recognition to persons for completion of continuing education programs. A permanent record of all CEUs earned is maintained by the University. A transcript may be obtained by sending a written request to the Division of Continuing Studies and Public Service.

Workforce Development and Corporate Training

The non-credit 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 the director of Lifelong Learning at (615) 898-2462.



College of Graduate Studies

Donald L. Curry, Dean
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
 Vocational-Technical Education

Graduate Certificate Programs

Certificates of completion of core curricula are available in Art Education, Critical Care Nursing, Geoscience, and Gerontology.

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, Economics, English, History, and Physical Education. An applicant for admission must hold a master's degree or its equivalent from an accredited institution.

Ph.D. Conversion

Conversion of the D.A. programs in English, Economics, and Physical Education to Ph.D. programs in English, Economics, and Human Performance, respectively, has been approved by the Tennessee Board of Regents and awaits final action by the Tennessee Higher Education Commission.

Academic Inventory

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

Undergraduate

Associate in Applied Science in Law Enforcement (A.A.S.)
 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 Teaching (M.S.T.)
 Master of Vocational-Technical Education (M.V.T.E.)
 Specialist in Education (Ed.S.)
 Doctor of Arts (D.A.)

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
College of Basic and Applied Sciences					
Aerospace, p. 92	Aerospace	Administration	B.S.		
		Flight Dispatch and Sched.	B.S.		
		Maintenance Mgmt.	B.S.		
		Professional Pilot	B.S.		
		Technology	B.S.		
	Aviation Administration	Airport/Airline Mgmt.	M.S.		
		Aviation Asset Mgmt.	M.S.		
	Aerospace Education		M.Ed.	Aerospace	Aerospace
Agribusiness and Agriscience, p. 99					
Agribusiness and Agriscience, p. 99	Agribusiness	Agri. Communication	B.S.		
		#Pre-Agri. Engineer	B.S.		
		Animal Science	B.S.		
		Agri. Communication	B.S.		
		Horse Science	B.S.		
		#Pre-Veterinarian			
	Plant and Soil Sci.	Agri. Communication	B.S.		
		#Pre-Forestry	B.S.	Agriculture	Agriculture
Biology, p. 106					
Biology, p. 106	Biology	Animal Biology	M.S.;M.S.T.		
		General Biology	B.S.		
		Microbiology	B.S.		
		Plant Biology	B.S.		
				Biology	Biology
Chemistry, p. 111					
Chemistry, p. 111	Chemistry	Prof. Chemistry	B.S.;M.S.;D.A.		
			B.S.		
	Science	General	B.S.	Chemistry	Chemistry
		Health Sciences	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
Computer Science, p. 120	Computer Science	Business Applications	B.S.;M.S. B.S.	Computer Science	Computer Science
Engineering Technology and Industrial Studies, p. 123	Engineering Technology	Computer Eng. Tech. Electro-Mech. Eng. Tech. Manufacturing Eng. Tech.	B.S. B.S. B.S.		
	Environmental Sci. and Technology	Energy Res. Mgmt. Eng. Tech. and Safety Planning Site Analysis Waste Management Water Resources	B.S. B.S. B.S. B.S. B.S. B.S.	Env. Sci. Tech.	
	Industrial Education	Ind. Train. and Dev. Technology Educ. Occupational Educ.	B.S. B.S. B.S.	Industrial Education	
	Industrial Technology	Concrete Ind. Mgmt. Construction Mgmt. Tech. Ind. Mgmt. Tech. ‡Pre-engineering ‡Pre-architecture	B.S. B.S. B.S.	Construction Mgmt. Electronics Industrial Technology	
	Industrial Studies	General Ind. Relations Safety	M.S. M.S. M.S.		
	Vocational/Technical Education		M.V.T.E.		Voc. Tech. Ed.
Mathematical Sciences, p. 138	Mathematics	Actuarial Science Applications of Math Math Education Professional Math General Math Industrial Math Research Preparation Middle Grade Math Secondary Math	B.A.;B.S. B.S. B.S. B.S. M.S. M.S. M.S. M.S.T. M.S.T.	Mathematics Math for Mng. Soc. and Life Sci. Statistics	Mathematics
Military Science, p. 147	none			Military Science	
Nursing, p. 149	Nursing Critical Care		B.S.N. Grad. Cert.		
Physics and Astronomy, p. 153	Physics		B.S.	Physics Electro-Acoustics	Physics
	University Studies		B.Unv.S.		
Jennings A. Jones College of Business					
Accounting, p. 161	Accounting		B.B.A.	Accounting Business Law Comb. Actg./Infs.	Accounting
	Accounting/Information Systems	Actg. as primary field	M.S.		

‡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
Business Education, Marketing Education, and Office Management, p. 164	Business Education		B.S.;M.B.E.		
	Marketing Education		B.S.	Business Educ.	Business Educ.
	Office Management		B.B.A.	Marketing Educ.	
	Entrepreneurship		B.B.A.		
	Administrative Business		2-yr. Cert	Office Mgmt. Business Comm. Entrepreneurship	
Computer Information Systems, p. 169	Information Systems		B.B.A.		
	Accounting/Information Systems	Inf. as primary field	M.S.	Information Sys. Comb. Actg./Inf.	Information Sys.
Economics and Finance, p. 171	Economics	Labor Relations Public Finance Industrial Rel. Financial Economics	B.B.A.*;B.S.*;M.A.*;***D.A. B.B.A. B.B.A.. M.A. M.A.		
	Finance	Business Fin. Fin. Inst. Mgmt. Insurance Real Estate	B.B.A. B.B.A. B.B.A. B.B.A.	Economics Economics/Finance Industrial Rel.	Economics
Management and Marketing, p. 177	Business Administration		B.B.A.;M.B.A.		
	Management		B.B.A.	Business Admin. Entrepreneurship	
	Marketing		B.B.A.	Management Marketing Mgmt./Mkt.	
College of Education and Behavioral Science					
Criminal Justice Administration, p. 187	Criminal Justice Administration		B.S.;M.C.J.		
	Law Enforcement		A.A.S.	Crim. Just. Admin.	Crim. Just. Admin.
Educational Leadership, p. 189	Administration and Supervision	Library Science	M.Ed.;Ed.S. M.Ed.		
	Curriculum and Instruction	English as a Second Lang.	M.Ed.;Ed.S. M.Ed.	Second. Educ. Education (Non-Teach.)	Library Science Education
Elementary and Special Education, p. 190	Interdisciplinary Studies	###Grades K-8 ###Grades 5-8	B.S.		
	Special Education	###Mildly/Mod. Disabled ###Sev./Profoundly Disabled Mildly/Mod. Dis. Stu. Preschool Dis. Stu. Sev./Profoundly Dis. Stu. Vision Disabilities	B.S. M.Ed. M.Ed. M.Ed. M.Ed.		
	Reading		M.Ed.	Special Educ.	Special Educ.

*Liberal arts degrees administered by the Department of Economics and Finance; **Education degree administered by the Department of Economics and Finance
##Approval for conversion to Ph.D. pending

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

Department/School	Major	Concentration	Degree Offered	Undergraduate Minor	Graduate Minor	
Elementary and Special Education cont.	Curriculum and Instruction	Early Childhood Elementary School Educ. Middle School Educ.	M.Ed. M.Ed.;Ed.S. M.Ed.		Reading	
					Curric. and Inst.	
Health, Physical Education, Recreation and Safety, p. 194	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.			
	Physical Education		B.S.;#D.A.	Health	Health	
		Wellness and Exer. Science	B.S.	Hlth. and Phy. Educ.		
	Recreation and Leisure Services	Outdoor Recreation Recreation Administration Recreational Therapy	B.S. B.S. B.S.	Physical Ed.	Physical Ed.	
				Athletic Coaching Ath. Trn./Sports Med. Dance Driv. and Tr. Sfty. Ed. Recreation	Recreation	
		Exer. Sci. and Hlth. Promotion Hlth., Phy. Ed., Rec.	M.S. M.S. M.S. M.S. M.S. M.S.			
		Health Physical Education Recreation Sport Management		Safety		
	##Approval for conversion to Ph.D. in Human Performance pending					
	Human Sciences, p. 205	Early Childhood Education Fam. and Con. Studies	Consumer Serv. Fam. and Con. Sci. Educ. Child Dev. and Fam. Stud.	B.S. B.S. B.S. B.S. B.S.		
Interior Design Nutrition and Food Science		Dietetics Food Technology	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	
Psychology, p. 215	Psychology	Pre-Graduate School Clinical Experimental Indus./Organizational Pre-Spec. Ed.-Sch. Psy. Quantitative	B.S. B.S. M.A. M.A. M.A. M.A. M.A.			
	Indus./Organizational		B.S.	Psychology Indus./Organizational	Psychology	
	School Counseling Curriculum and Instruction	School Psychology	M.Ed. Ed.S.			
College of Liberal Arts						
Art, p. 222	Art	Graphic Design Studio	B.F.A. B.F.A.	Art Art History	Art	
	Art Education		B.S.; Grad. Cert.	Art Education		
English, p. 228	English		B.A.;M.A.;#D.A.	English Film Studies** Great Books** Writing**	English	

**Interdisciplinary Minors ##Approval for conversion to Ph.D. pending

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Department/School	Major	Concentration	Degree Offered	Undergraduate Minor	Graduate Minor
Foreign Languages and Literatures, p. 233	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 Foreign Languages Classical Studies** Early Mod. Eur. Studies** Latin Am. Studies**	
Geography and Geology, p. 238	Geoscience	Geography	B.S.; Grad. Cert	Geography	Geography
		Geology	B.S.	Geology/Earth Science Remote Sensing	Earth Sci./Geology
History, p. 245	History		B.A.;M.A.;D.A.	History American Culture** Environment and Human Society** Media, History, and Culture** Medieval Studies** Southern Studies** Twen. Cent. Eur. Stud.**	History
		Hist. Preservation Public History	D.A. M.A.		
Music, p. 250	Music	Inst. Music Educ.	M.A.	American Music Studies Music Music Industry	Music
		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.		
Philosophy, p. 263	Philosophy		B.A.	Philosophy Religious Studies	
Political Science, p. 264	Political Science	Pre-law Public Admin.	B.A.;B.S. B.A.;B.S. B.A.;B.S.	Political Science	Political Science
	International Relations		B.S.	International Rel. Paralegal Studies** Public Administration Urban Planning Urban Studies**	
Social Work, p. 270	Social Work		B.S.W.	Social Welfare Health Care Services**	
Sociology and Anthropology, p. 272	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. 277	Speech and Theatre	Communication Disorders Communication Studies Theatre	B.A.;B.S. B.A.;B.S. B.A.;B.S. B.S.		
	Organizational Communications			Speech and Theatre Comm. Disorders Theatrical Design	Speech and Theatre
	University Studies		B.Unv.S.		
				African-American Studies** Aging Studies** Global Studies** Women's Studies**	
College of Mass Communication					
	Mass Communication		M.S.	Mass Comm	Mass Comm
Journalism, p. 288	Mass Communication	Adv./Public Rel. Graphic Comm. Journalism	B.S. B.S. B.S.		
Radio-Television/ Photography, p. 293	Mass Communication	Digital Media Communication Photography Radio-Television	B.S. B.S. B.S.		
Recording Industry, p. 301	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 new degree programs offered in cooperation with the Tennessee Board of Regents. For additional information about the Regents Online Degree Program (RDOP), see page 15.

Regents Online Degree Program, (615) 898-5611

Liberal Studies			B.S.		
Professional Studies		Information Technology Organizational Leadership	B.S. B.S.		

Academic Abbreviations

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

Requirements for Admission

Admissions Office
Cope Administration Building 208

Priority Application Filing Deadlines

Fall semester applicants who file their admission applications and necessary credentials by July 1 are guaranteed to receive an admission decision prior to Fall registration dates. Persons applying after July 1 may not be allowed to register for Fall classes because of the time required to evaluate admission credentials.

The priority filing deadline for Spring semester applications is December 1.

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
English	4
Visual and/or Performing Arts, includes a variety of possibilities in either performance or survey courses	1
Algebra I (or Math for Technology II), Algebra II, and Advanced Math or Integrated Math Sequence (Integrated Mathematics I, II, III)	3
Natural/Physical Sciences, including at least one unit, with lab, of biology, chemistry, physics, or principles of technology	2
Social Studies, (world history, ancient history, modern history, European history, or world geography)	1
United States History	1
A single Foreign Language	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 seven semesters (grade nine through mid-year of grade twelve). The review for high school unit requirements is also 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

Following are the admission standards for in-state 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, but familiarity with the requirements in each category will assist the applicant in understanding the admission process and his/her likelihood of being admitted. The categories are

Honors Admission—for high-ability students

Standard Admission—for the majority of applicants

Committee Review—for applicants not meeting standard admission requirements

Alternative Admission—for applicants who have special talents or circumstances which may be taken into consideration

Admission by Exception—for applicants with one or two high school course deficiencies

The requirements for each admission category are listed below. Applicants meeting the criteria for Honors or Standard Admission are **guaranteed** admission to MTSU. All other applications will be **reviewed** by the Admissions Review Committee for possible admission.

Applicants who graduated in 1993 or after are required to have completed the fourteen core courses listed above. Applicants who graduated between 1989 and 1993 are required to have completed the same core courses with the exception of the visual and/or performing arts.

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

Honors Admission—Applicants who meet the conditions in either of the following requirements are guaranteed admission to MTSU and are admitted automatically into the University's Honors College:

1. ACT composite score of 26 or higher and at least a 3.00 high school GPA (Applicants with fewer than two units of a foreign language or without one unit of visual/performing arts will be required to remove these deficiencies after enrolling at MTSU.);
2. ACT composite score of 22 or higher, a grade point average of 3.50 or higher, and completion of the required high school units.

Participation in the Honors College is not required of applicants admitted in this category. Many high school seniors will not know until the end of the school year that they are eligible for Honors Admission based on their GPA. In such cases, the applicant will be upgraded to Honors Admission when the final high school transcript is received.

Standard Admission—The majority of freshman applicants will be admitted in the Standard Admission category. In addition to the required high school units, applicants must have a minimum ACT composite score of 20 **or** a minimum 2.80 cumulative grade point average on a 4.00 scale. High school graduates who can show either of these criteria and passing grades in all of the required high school courses are guaranteed admission to MTSU.

Committee Review—Applicants who do not meet the conditions listed above for Standard Admission may submit their credentials to the Admissions Review Committee. The committee will consider applicants who have completed the required high school courses and have either an ACT composite score of 17, 18, or 19 **or** at least a 2.00 cumulative grade point average on a 4.00 scale. In addition to the MTSU admission application, official high school transcript, and ACT scores (if under 21 years of age), these applicants are required to provide a personal statement which includes answers to the following questions.

1. Our most important concern in evaluating admission applications is to select students who will succeed at MTSU. What factors in addition to your previous college grade point average do you think we should consider in order to make a fair decision regarding your ability to be academically successful at MTSU?

2. Are there extenuating circumstances which affect your grades that you feel will assist the Admissions Committee in making their decision?
3. If admitted to MTSU on probation, what specific steps would you take to improve your grades?
4. What are your career goals? How will attending MTSU help you achieve them?

Applicants in this category are **not** guaranteed admission to the university. It is anticipated that MTSU will admit some applicants in this category after a careful review of their academic preparation and the required written personal statement. However, **applicants with a high school grade point average of less than 2.30 or an ACT composite score of less than 17 typically will be denied admission.** Decisions of the Admissions Review Committee are final.

All applicants who present the GED instead of a high school diploma also will have their files reviewed by the Admissions Review Committee to determine admission eligibility. Requirements for GED admission are:

1. minimum GED score of 45;
2. if less than 21 years of age, ACT scores must be presented;
3. personal statement form;
4. upon acceptance, completion of academic assessment placement testing.

Alternative Admission—Applicants with special talents or circumstances who do not meet the requirements for the above admission categories may still be considered for Alternative Admission. This category applies to applicants with one or more high school deficiencies or who have scored lower than 17 on the ACT and have less than a 2.30 grade point average. Applicants for Alternative Admission should submit the MTSU application for admission, official high school transcript (and/or GED score), ACT scores (if under 21 years of age), and a personal statement which includes answers to the following questions.

1. Our most important concern in evaluating admission applications is to select students who will succeed at MTSU. What factors in addition to your previous college grade point average do you think we should consider in order to make a fair decision regarding your ability to be academically successful at MTSU?
2. Are there extenuating circumstances which affect your grades that you feel will assist the Admissions Committee in making their decision?
3. If admitted to MTSU on probation, what specific steps would you take to improve your grades?
4. What are your career goals? How will attending MTSU help you achieve them?

The Admissions Review Committee 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 Honors, Standard, or Reviewed admission will be denied. Decisions of the Admissions Review Committee are final.

Applicants with diagnosed learning disabilities should contact the MTSU Disabled Student Services Office for more information.

Admission by Exception—This category is designed to assist freshman applicants who graduated from high school in 1989

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or after but did not complete all of the high school courses mandated by the Tennessee Board of Regents. Applicants who are otherwise admissible to Middle Tennessee State University may be granted admission with one or two high school course deficiencies under the following circumstances:

1. The applicant has an ACT composite score of 21-25 (or SAT score of 980 to 1160) and no more than two high school unit deficiencies. Applicants who meet these two criteria will be reviewed on an individual basis.
2. The applicant has an ACT composite score of 20 (or SAT score of 940), a cumulative high school GPA of 2.80 or higher, and no more than two high school unit deficiencies. Applicants in this category will be reviewed on an individual basis.

Applicants who are granted Admission by Exception will be required to remove their high school unit deficiencies within the first 60 hours of their college work. If the deficiencies are in math or English, the applicant will be required to write an academic assessment placement test prior to enrolling. Information about placement testing may be found below and on page 86.

Out-of-State Applicants

Graduates of high schools located outside Tennessee can qualify for admission by meeting the conditions specified in any of the admission categories above. Out-of-state applicants may submit SAT scores or ACT scores. An SAT score of 940 is equivalent to the ACT score of 20 used for standard admission. For honors admission, out-of-state applicants can qualify by an SAT total score of 1170 or high school grade point average of 3.50 on a 4.00 scale with a minimum SAT score of 1020. Entering freshmen also qualify for Honors College admission if they have a minimum ACT composite score of 26 and at least a 3.00 high school GPA or if they have a high school GPA of 3.50 and a minimum 22 ACT composite score. Out-of-state students may also present GED scores as appropriate.

Assessment Examinations

ACT composite and mathematics and English sub-scores will be used to identify students requiring academic assessment for purposes of placement. Minimum requirements are that applicants under 21 years of age

1. whose ACT composite score is 18 or lower must complete a reading comprehension test;
2. whose ACT mathematics sub-score is 18 or lower must take the appropriate mathematics tests as determined by level of high school preparation in mathematics;
3. whose ACT English sub-score is 18 or lower must complete a writing sample.

Applicants 21 years of age or older on the first day of classes of their first term are required to take the entire academic assessment placement test series unless they elect to present ACT scores posted within three years prior to the first day of the first term of enrollment.

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. Trans-

fer 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 \$3 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 86.

NOTE 1: Academic assessment placements 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 college-level mathematics/English course will be required to satisfy General Studies requirements.

Transfer applicants who do not have a cumulative 2.00 grade point average may submit their credentials to the Admissions Review Committee for review. The committee 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 provide a transfer appeal form which includes answers to the following questions.

1. Our most important concern in evaluating admission applications is to select students who will succeed at MTSU. In your own words answer one of the following:
 - What activities in high school—including extracurricular activities, employment, and any other information you feel is important—would assist us in considering you for admission?
 - If you are over 21 years of age, what employment experiences have you had since leaving high school and is there any other information you feel is important in considering you for admission?
2. Are there extenuating circumstances which affected your grades that you feel will assist the Admissions Committee in making their decision?
3. In what ways have you prepared yourself to meet the challenges of attending Middle Tennessee State University? Why do you want to attend college and in particular why would you like to attend MTSU?

Transfer students admitted by the Admissions Review Committee will be admitted on probation. Refer to page 53 for university retention policy. Decisions of the Admissions Review Committee 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 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 132 semester 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 48 of the 60 being upper-division courses. A grade of D in English 1010 and 1020 is used to determine admission eligibility but does not meet degree requirements. Refer to page 228 for more details. Additional information on this stipulation is given under the requirements for graduation on page 55.

***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 57 for further information.*

Re-enrollee

1. Re-enrollees who have not attended another institution since leaving MTSU need only complete an application for readmission. 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 will be admitted on probation if their cumulative grade point average is less than 2.00.
2. Re-enrollees who have attended another institution since leaving MTSU need to submit an application for readmission 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 re-admission can be determined.
3. Re-enrollees 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 re-enroll until the following Spring semester.
 - c. Students receiving their first suspension at the end of the Summer Session will not be eligible to re-enroll 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 Multi-disciplinary 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.

High School Scholars Program

The High School Scholars Program is a joint effort between the University and participating high schools. The program utilizes University resources to provide enrichment and challenge to academically-talented high school seniors. Under this program, students may enroll at MTSU while completing their senior year of high school.

The high school retains complete authority over a student's participation in the program, with the principal maintaining the right to terminate participation. The student's primary responsibility, both academically and socially, remains with the high school and precludes participation in such University extracurricular activities as student clubs, athletic teams, and student publications. Academic performance at MTSU, however, becomes part of the student's permanent university record whether the student remains at MTSU or transfers to another institution. HSSP students enroll in regular University courses with regular full-time students without being identified as high school students or as deserving special consideration. Termination is possible at any time, but grades for any completed work will remain a permanent part of the student's transcript. The high school may permit a student to count courses taken at the university level for credit toward high school graduation. This decision is solely at the discretion of the high school principal and has no bearing on the student's status at MTSU.

A student may qualify for the High School Scholars Program under the following conditions:

1. be at least 16 years of age;
2. have completed the junior year of high school with a minimum of 14 high school credits;
3. have a 3.50 grade point average on all work taken during grades 9, 10, and 11;
4. have a minimum ACT composite score of 27;
5. be recommended for participation in the program by the high school principal or guidance counselor.

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 38.

High School Enrollment

Applicants who have completed their sophomore year in high school can be admitted in the non-degree category under certain conditions as approved by the director of admissions.

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 non-refundable 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 de-

gree 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.

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

NOTE: 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).

International Students

Details regarding admission of international students, whether foreign or permanent residents, can be found on page 31.

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. Two such programs are Nursing and Teacher Education; the special admission requirements for both 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: 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 3: 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.

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 <http://www.applyweb.com/aw?mtsu>.

New Freshman (Never previously attended college)

1. Complete undergraduate application for admission.
2. Submit **\$15.00 non-refundable application fee** (check or money order).
3. Submit official ACT report (not required of applicants 21 years of age or older). An official ACT report can be requested by writing to the American College Testing Program, Box 451, Iowa City, Iowa 52243-0451. Please ask them to send it directly to MTSU, Code #3994. ACT scores on the official high school transcript are acceptable. Out-of-state students may submit SAT scores, Code #1466.
4. Request high school to forward official transcript. If tentative acceptance is desired, request high school transcript through the seventh semester (mid-term of senior 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 under 21 years of age, ACT scores must be presented.*
6. ACT composite and mathematics and English sub-scores will be used to identify students requiring academic assessment placement testing for purposes of placement. Minimum requirements are that applicants under 21 years of age
 - whose ACT composite score is 18 or lower must complete a reading comprehension test;
 - whose ACT mathematics sub-score is 18 or lower must take the appropriate mathematics tests as determined by level of high school preparation in math;
 - whose ACT English sub-score is 18 or lower must complete a writing sample.

Transfer (Previously attended college(s))

1. Complete undergraduate application for admission.
2. Submit **\$15.00 non-refundable 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 semester hours or less, 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 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 degree programs. Students previously tested at another Tennessee Board of Regents institution **should have pre-test scores sent.**

Re-enrollee (Previously attended MTSU)

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

High School Scholars Program or Early Admission

(High-ability high school students)

1. Complete undergraduate application for admission.
2. Submit **\$15.00 non-refundable application fee** (check or money order).
3. Request high school to forward official transcript.
4. Submit an official ACT report.
5. Submit a letter of recommendation from high school principal or counselor and Individualized Educational Program (IEP) report, if necessary.

Special Student (Audit or non-credit)

1. Complete undergraduate application for admission.
2. Submit **\$15.00 non-refundable 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 **\$15.00 non-refundable 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 an academic assessment 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 28 for additional instructions.

Transient Student (One semester only)

1. Complete undergraduate application for admission.
2. Submit **\$15.00 non-refundable 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 **\$15.00 non-refundable 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, both foreign and permanent residents. Information may be found on page 31.

International Programs and Services

International Programs and Services Office Cope Administration Building 202

The International Programs and Services Office (IPSO) serves as the admissions office for international students. International students include all non-U.S. citizen applicants (visa holders and permanent residents). 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-20 and IAP-66 forms and evaluating 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 including permanent residents. All students who are non-U.S. citizens at the time of admission will be considered out-of-state for tuition purposes until they apply for and receive in-state status. Permanent residents and others 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. Immigration and Naturalization Service (INS) regulations, F1 and J1 students must be enrolled full time (minimum 12 hours) during Fall and Spring semesters. Summer enrollment is optional. Also, INS requires that F1 and J1 applicants meet all admission requirements prior to enrollment. No conditional admission 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

Financial aid is available only to persons holding valid permanent resident status. International students in F1 or J1 status must provide verification of financial support prior to admission as required by the United States Immigration and Naturalization Service. There are no academic or need-based scholarships available for non-immigrant visa holders.

Deadlines for Completed* Files:

Fall Semester: July 15 of same year; **Spring Semester:** November 30 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 permanent residents or who are in status other than F or J with INS 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 stu-

dents are subject to academic assessment placement testing criteria and assessment when applicable.

Application to MTSU:

International students include visa holders and permanent resident applicants.

1. Complete undergraduate application for admission.
2. Submit **\$30.00 non-refundable 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 or front and back copy of permanent resident card, whichever is applicable.
6. Submit official TOEFL (computer-based minimum score 173, paper-based minimum score 500) or UMELI (minimum score 80); minimum ACT composite score of 20 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 IAP-66, 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. Have a GPA of 2.80 if a new freshman or a GPA of 2.00 if transferring from an accredited college or university.

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

F1 and J1 students should take 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 Study Abroad and Exchange Programs

The International Programs and Services Office (IPSO) is the clearinghouse for study abroad and exchange program development and information for MTSU students and faculty. IPSO facilitates study abroad and exchange opportunities by advising students on study, travel, and work programs, advertising departmental programs, joining institutional study abroad consortia, holding special events and presentations, and maintaining reference books, videos, and informational catalogs on study, travel, volunteer and work programs overseas.

Cooperative Center for Study Abroad

MTSU is an affiliate member of the Cooperative Center for Study Abroad (CCSA). The CCSA is a study abroad consortium made up of 22 higher education institutions in the United States. The CCSA through its member universities and colleges provides joint planning and coordination of credit-bearing programs of study in the United Kingdom and Ireland and other English-speaking nations (excluding the United States). MTSU students can continue to enroll at MTSU for the CCSA study

abroad program allowing the use of financial aid under most circumstances. The CCSA offers short-term summer programs in Ireland, Scotland, Australia, Canada, South Africa, New Zealand, and London and a Fall semester program in Cambridge, England. Internships are now also available in London through CCSA. Also faculty can participate in CCSA's short-term teaching programs. Faculty should submit a course proposal and identify the program in which they want to participate. Internships are now also available in London through CCSA. Brochures and applications are available at IPSO.

Council on International Educational Exchange

MTSU is an institutional member of the Council on International Educational Exchange (CIEE). CIEE is a prominent organization in the field of educational exchange and student overseas travel. CIEE facilitates undergraduate and graduate education abroad through a consortium of colleges and universities that have a particular academic standards. These programs cover a variety of academic interests and span the globe, including programs at universities in Argentina, Australia, Brazil, Chile, China, Costa Rica, Czechoslovakia, the Dominican Republic, France, Germany, Netherlands, Hungary, Indonesia, Japan, Poland, Spain, Thailand, the former Soviet Republics, and Vietnam.

IPSO is also an issuing office for the International Student or Faculty Identity Card, sponsored by CIEE. This identification card provides students and faculty with special discounts on airline tickets, train tickets, hotel rooms, and car rentals, in addition to basic health and accident insurance coverage at the current charge. Students may also wish to come to IPSO to obtain a copy of the *Student Travels* magazine, a CIEE publication highlighting study abroad programs and opportunities.

Kentucky Institute for International Studies

MTSU is a member of the Kentucky Institute for International Studies (KIIS). KIIS is a study abroad consortium made up of 14 higher education institutions in Kentucky, Tennessee, and Indiana. KIIS provides joint planning and coordination of credit programs of study in Austria, China, Ecuador, France, Germany, Greece, Italy, Mexico, and Spain. Under most circumstances, financial aid may be used for this purpose. Faculty can participate in KIIS's short-term teaching programs. More information is available through IPSO or the KIIS campus representative, Dr. Richard Pace.

Consortium for Overseas Student Teaching

MTSU has been an institutional member since 1971 of the Consortium for Overseas Student Teaching (COST), which places university students in overseas locations to fulfill student teaching requirements. Educational Leadership Department faculty assist with this program.

Exchange Programs

IPSO is the primary unit which serves the campus community by facilitating academic exchange agreements with foreign institutions and academic departments, including Foreign Languages and Literatures, Geography and Geology, and Political Science. Currently, the university has six active foreign academic exchange agreements, with the following institutions:

- University Institute of Technology - Cherbourg-Manche (France)
- University of Franche-Comte (France)
- University of Caen (France)
- Polytechnic School of the Army (Ecuador)
- Johannes Gutenberg - University of Mainz (Germany)
- Kansai Gaidai University (Japan)

MTSU students accepted to an exchange program can continue to maintain full-time enrollment at MTSU. Some exchange programs allow the student to pay all tuition, fees, room and board to MTSU, but students are responsible for travel and personal expenses incurred at the overseas site. Students may inquire about these exchange programs through IPSO. In some cases, financial aid may be used for study abroad.

Advanced Standing

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), the American College Testing Program (ACT) (www.act.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 66 semester hours credit by means of credit-by-examinations, correspondence, and experiences in the Armed Services. The applicant must not have received credit (or audited) in the MTSU course for which credit is recommended. However, credit for CLEP 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 scores equal to or greater than the 50th percentile for the following examinations administered by the College Level Examination Program:

CLEP General Examination

General 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 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, 1111, 1120, 1121
 Accounting, Introductory, six credits, in lieu of ACTG 2110, 2120
 Business Law, Introduction to, three credits, in lieu of BLAW 3430
 Marketing, Introductory, three credits, in lieu of MKT 3820
 Management, Introduction to, three credits, in lieu of MGMT 3610
 Macroeconomics, Introduction, three credits, in lieu of ECON 2410
 Microeconomics, Introduction, 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

American Literature—essay required, three credits, in lieu of ENGL 2130

English Literature—essay required, three credits, in lieu of ENGL 2230

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 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 freshman 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.

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

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

Art-Drawing, three credits, lower-division art elective

Art-General, three credits, in lieu of ART 1030

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, 1111, 1120, 1121

Comparative Government, three credits, in lieu of P S 1020

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

Math Calculus AB, four credits, in lieu of MATH 1910

Math Calculus BC, four credits, in lieu of MATH 1920

Music, three credits, in lieu of MUTH 1000

Physics C (Mechanics), three credits, in lieu of PHYS 2110

Physics C (Electricity and Magnetism), three credits, in lieu of PHYS 2120

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.

ACT Proficiency Examination Program

Students may earn college credits for acceptable scores on the Proficiency Examination Program of ACT. When stan-

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 3080
 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 66 semester hours credit by means of DSST, credit-by-special exam, correspondence, and experiences in the Armed Services.

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 non-refundable 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% 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.

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

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 2010—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.

Certified Professional Secretary

Those persons having successfully passed the Certified Professional Secretary's examination and who have successfully completed 12 semester hours of study in the Jennings A. Jones College of Business may make formal application to the chair of the BMOM Department for credit for each of the following courses. A grade of P will be recorded if no previous credit has been earned.

ACTG 2110	Principles of Accounting I, 3 hours
BMOM 1550	Introduction to Word Processing Skills, 3 hours
BMOM 3010	Office Management, 3 hours
BMOM 3510	Business Communication, 3 hours
BLAW 3400	Legal Environment of Business, 3 hours
ECON 2410	Principles of Economics, 3 hours

NOTE: The foregoing may be applied to a major in Office Management. Credit is subject to change when the actual content of the CPS examination no longer corresponds to the course content.

Registered Nurses

R.N.s with an associate degree or diploma may receive advanced standing credit for nursing courses provided the student graduated from a state-approved school of nursing and holds 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 score of 50 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.

MTSU and TSU Educational Consortium

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



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.

All fees are for the academic year 2000-2001 and are subject to change by action of the Tennessee Board of Regents. The new fee amounts will be published 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 <http://www.mtsu.edu/~bursar.mt>.

Registration Fees

Maintenance Fees

In-State Students

Full-time (per semester)	
Undergraduate (12 hours and over)	\$ 1,278.00
Graduate (10 hours or more)	1,716.00

Part-time (per credit hour)

Undergraduate	112.00
Graduate	181.00

Out-of-State Students*

Full-time Students (per semester, 12 hours and over)	
Undergraduate	4,514.00
Graduate	4,952.00

Part-time Students (per credit hour)

Undergraduate	392.00
Graduate	461.00

Debt Service Fee

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

General Access Fee

Full-time (per semester)	193.00
Part-time (per credit hour)	23.00 + 14.00 per hour

Recreation Activity Fee

(Required of all students)	15.00
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Postal Services Fee

(Required of all students registering for 12 or more hours)	8.00
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SGA Student Activity Fee (required of all students

registering for 7 hours or more)	20.00
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*Included in these rates are charges for out-of-state tuition as follows:

1. \$3,236.00 for full-time students
2. \$280.00 per credit hour for part-time students

NOTE: The rates quoted above are those in effect for the 2001-2002 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.

Summer Registration Fees

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

In-State Students

Undergraduate	\$ 112.00 per hour
Graduate	181.00 per hour

Out-of-State Residents

Undergraduate	392.00 per hour
Graduate	461.00 per hour

Debt Services Fee

7.00 per hour

General Access Fee

14.00 per hour

Recreation Fee (Non-refundable)

15.00

Campus Housing Expenses

Housing fees are proposed fees for 2001-2002, but are subject to TBR approval.

Reservations

Fall and Spring Semesters, required prepayment	\$200.00
Spring Semester only, required prepayment	\$100.00
Summer Session, required prepayment	\$125.00

2001-2002 Room/Apartment Rates

Single Students/Residence Halls (shared bedroom, quad bath; shared bedroom, community bath)	
Cost per semester	\$1070.00
Summer Session I	\$189.00
Summer Session II	\$315.00
Summer Session III	\$630.00
Session IV	\$315.00
All Summer School	\$819.00
(private bedroom)	
All residence halls, per semester	\$1,873.00
Limited availability; summer not available	

Womack Lane Apartments - one bedroom (shared apartment, shared bedroom)

Cost per semester	\$1,200.00
Summer Session I	\$212.00
Summer II	\$354.00
Summer III	\$708.00
Summer IV	\$354.00
All Summer School	\$920.00

**Womack Lane and Scarlett Commons
(shared apartment, private bedroom)****Womack Lane Apartments - two bedrooms**

Cost per semester	\$1,340.00
Summer I	\$237.00
Summer II	\$395.00
Summer III	\$790.00
Summer IV	\$395.00
All Summer School	\$1,027.00

Scarlett Commons

Cost per semester	\$2,200.00
Summer I	\$73.00
Summer II	\$121.00
Summer III	\$242.00
Summer IV	\$121.00
All Summer School	\$315.00

**Womack Lane Apartments - Families
(one bedroom, unfurnished)**

Cost per semester	\$2,080.00
Summer I	\$367.00
Summer II	\$612.00
Summer III	\$1,224.00
Summer IV	\$612.00
All Summer School	\$1,591.00

(one bedroom, semi-furnished)

Cost per semester	\$2,400.00
Summer I	\$424.00
Summer II	\$708.00
Summer III	\$1,416.00
Summer IV	\$708.00
All Summer School	\$1,840.00

(two bedroom, unfurnished)

Cost per semester	\$2,370.00
Summer I	\$419.00
Summer II	\$697.00
Summer III	\$1,394.00
Summer IV	\$697.00
All Summer School	\$1,813.00

(two bedroom, semi-furnished)

Cost per semester	\$2,680.00
Summer I	\$474.00
Summer II	\$790.00
Summer III	\$1,580.00
Summer IV	\$790.00
All Summer School	\$2,054.00

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. The University reserves the right to correct errors in student fee assessments and charges which are discovered subsequent to initial billings and fee statements. 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	15.00
Graduate	25.00
International	30.00
Automobile registration—academic year:	
Faculty/administration/staff	65.00
Employees with disabilities	10.00
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	42.00
Graduate Record Exam-subject	130.00
ID card replacement	10.00
Music, individual instruction, 2 lessons each week 1 lesson each week	110.00 55.00
Post Office box rent each semester (required of all students registering for 12 hours or more)	8.00
Nursery school, semester	
Infants and toddlers, 2 days/week	150.00
Pre-school (4 days per week)	240.00
Day Care Fees (per week)	
Full-time (M-F)	\$60.00
Part-time (MWF)	\$36.00
Part-time (TTH)	\$24.00

*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 pre-register, 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 \$50.00 late fee.

Matriculation Fee for Incompletes

If a student receives an "I" for a course, he or she need not re-register 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 \$50.00 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 Transpor-

tation 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 the auditor's being withdrawn 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. A student who is denied participation may be allowed to participate again only after completion of payment in full for two consecutive terms which allow deferments (fall or spring terms). 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 who participate in the Deferred Payment Plan may not pay housing charges in installments in the same term. 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 pre-register for future terms even if preregistration is prior to the due date.**

Each participant will be charged a **\$25.00 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 tenth day of the month that a payment is due. 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 TRAM or WebMT.** The Deferred Payment Plan service fee, late fee, and minimum amount are effective for 2000-2001 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 \$25 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.

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% of their maintenance fees, debt service fee, general access fee, or music fees (if any). Those withdrawing after the 14th day but before 25% of the time period covered by the term has passed will be refunded 25% of their fees. No refunds will be made beyond the 25% 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 non-refundable.

Drop date 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% refund period and the 25% refund period will extend a length of time which is the same proportion of the term as the 75% and 25% are of the regular terms.

Students who pre-register 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% 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 pre-payment as outlined in the license agreement. Pre-payment is a security of good faith that denotes the applicant's serious intent to reside in on-campus housing. Prepayment fees for 2001-2002 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 approximately 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.

Financial Aid

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 a 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 post-secondary 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

MTSU scholarship application deadline is March 1 for the upcoming Fall semester. The Free Application for Federal Student Aid (FAFSA) must be on file in the MTSU Financial Aid Office by May 15 to receive priority consideration for financial aid. Due to limited funds in federal campus-based programs (i.e., Federal Supplemental Education Opportunity Grant, Perkins Loan, and Federal Work Study), funds may not be available for students whose federal applications are received after May 15.

Renewal students applying for financial assistance receive first priority if they apply by the May 15 priority deadline. Money is generally available to assist all renewal students who continue to be eligible. Renewal students applying after the May 15 priority date will be awarded funds as money is available.

New applicants applying by the May 15 priority date are considered next.

Student aid data on each applicant for financial assistance is entered into the computer system from the FAFSA. Financial aid is then awarded to those students demonstrating exceptional financial need. This procedure ensures that funds are awarded to the most needy students first.

NOTE: This procedure is for distributing funds which are institutionally controlled. Federal Pell Grant eligibility is determined by the U.S. Department of Education, and the Tennessee Student Assistance Award is determined by the Tennessee Student Assistance Corporation. The amount of money a student receives from Pell and TSAC is considered when campus-based funds are awarded.

The Federal Pell Grant program does not have a May 15 deadline. Students applying for financial aid at MTSU after the May priority date should still apply for the Federal Pell Grant. The Tennessee Student Assistance Award is also based upon the availability of funding. We encourage students to apply early while funds are available.

Funds are awarded from campus-based programs to late applicants on a “rolling” basis in a manner which will approximate a most needy result. This is done by estimating in advance the needs and composition of our final applicant pool. **IMPORTANT:** The money available for late applicants is what is left after all applicants applying by May 15 have been awarded. Thus, funds are very limited after May 15.

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 and most high school guidance counselors.

Institutional scholarship applications are also available in January and should be returned to the Financial Aid Office by March 1.

Step 2. The completed FAFSA can be mailed to the processing center using the envelope provided with the application or by completing the FAFSA online on the Internet at <http://www.fafsa.ed.gov>. The instructions must be followed very carefully. The federal processor will not process the application until the “signature page” is received. 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 3. 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 the Financial Aid Office, Cope Administration Building, Room 218.

Step 4. 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 Finan-

cial Aid Office, or available on the Web at www.mtsu.edu/~fin_aid/. 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 timeframe 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 receiving a grade 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 limitation for the completion of a first degree is 150 percent of the program's published length. Most undergraduate programs require 132 hours, so the maximum attempted hours allowed is 198. This time limitation does not include remedial/developmental courses for which the maximum federal limitation is 30 hours. The 198 hours include all transfer hours and all attempted hours. Students who change majors during their 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 198-hour limitation.
2. **Graduates.** The maximum time limitation 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 198-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 suspension 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 also may be made for students who have been approved to participate in the Academic Fresh Start program or 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 and 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 limitation.

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. Students are eligible for aid one semester prior to being accepted provided they have documentation of their application for admission to the program.

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.

Aid Available

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

Sources of Aid and Eligibility

Federal Programs

Federal Pell Grant

Undergraduate student (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 through 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 freshman 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**Tennessee Student Assistance Award**

Undergraduate Tennessee resident/U.S. citizen enrolled or accepted for enrollment at eligible institutions in Tennessee (based on need); amount of assistance varies based upon need, tuition, and enrollment status; funding is limited.

Tennessee Teaching Scholars Program

Tennessee residents/U.S. citizens pursuing teaching licensure; program is limited to college juniors, seniors, and post baccalaureate students admitted to the teacher education program with a GPA of 2.75 or higher if required for the teacher education program. Commitment to teach in a Tennessee public school. Deadline is April 15 on a Tennessee Student Assistance Corporation (TSAC) approved form.

Minority Teaching Fellows Program

Entering freshmen with 2.50 high school GPA (4.00 scale) scoring at least 18 on ACT or 780 on SAT or ranked in top 25 percent of high school class who agree to teach in a Tennessee public school (K-12 level); Tennessee resident/U.S. citizen attending Tennessee institution; \$5,000 per academic year with \$20,000 maximum; obtain application from high school guidance office or TSAC.

Institutional Programs

MTSU's scholarship deadline is March 1. For more detailed information on these MTSU programs, please check the Financial Aid web page at http://www.mtsu.edu/~fin_aid.

Academic Service Scholarship

Students will be considered for this scholarship based on their ACT score (or SAT equivalent score) and high school GPA, which will be weighted equally. Applicants must have an ACT composite score of 20 or higher for consideration. The scholarship requires a work obligation and is renewable for up to eight (8) consecutive semesters. Contact high school guidance counselor or Financial Aid Office.

Presidential Scholarships

Entering first-time freshmen whose high school GPA is 3.75 or greater and whose ACT composite score is 29 or greater. Renewable for up to eight (8) consecutive semesters. Contact the Admissions Office.

Otis L. Floyd Scholarship

African-American students whose high school GPA is 3.20 or greater and whose ACT composite score is 25 or greater. Renewable for up to eight (8) consecutive semesters. Contact the Admissions Office.

James M. Buchanan Scholarship

The scholarship recognizes ten of the most outstanding new freshmen applicants who also are qualified for the Presidential or Otis L. Floyd Scholarship. Renewable for up to eight (8) consecutive semesters. Contact the Admissions Office.

MTSU Foundation Leadership/Performance Scholarship

Entering freshmen who demonstrate outstanding achievement in academic activities and leadership. Renewable for up to eight (8) consecutive semesters; contact high school guidance counselor or Financial Aid Office.

The Scholastic Achievement Scholarship

African-American first-time freshmen whose high school GPA is 3.00 or greater and whose ACT composite is at least 21. Renewable for up to eight (8) consecutive semesters. Contact the Admissions Office.

The Provost Scholarship

First-time MTSU student whose composite ACT is 20 or greater or whose high school GPA is 2.80 or greater (transfer student must have a GPA of at least 2.00). Contact the Admissions Office.

Athletic Scholarships

Based on skill; amount varies; contact athletic director, MTSU.

Music Scholarships

Based on skill; audition required; amount of assistance varies; contact chair, Music Department, MTSU.

The Enrichment Scholarship

Based on student's potential, academic achievement and need. Entering freshmen must have a high school GPA of at least 3.00 or an ACT composite score of at least 21. Transfer or currently enrolled students must have a GPA of at least 2.50.

Matching Minority Scholarship

African-American U.S. citizens qualified for admission or currently enrolled MTSU students; must be full time; amount of assistance varies; undergraduates obtain application from the Financial Aid Office; graduates obtain application from Graduate Office.

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.

Clifford N. and Pauline W. Stark Educational Loan

Based on need and GPA; amount of assistance varies; cosigner required; contact 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; \$100, which must be repaid in 30-60 days; 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

Housing and Residential Life Keathley University Center 300

Living on campus places students in the center of the University community so that they can make the most 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 career. 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 3,500 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 assist students in achieving 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 photo copiers. 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 provide areas 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, the individual 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.

Freshmen men and women who reside 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 for single students, 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 Student 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), 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 apartment or room, 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, and Monohan halls, designated for women, and

Reynolds and Schardt halls for men 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, Monohan, and Rutledge 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 University 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, and Deere Hall for women, and Clement and Gore halls for overflow applicants are small communities of exterior entrance buildings which feature quad-style bathrooms shared by groups of four rooms. Study rooms in each building provide 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 freshmen 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 furnished apartments include air conditioning units; unfurnished units are not air conditioned. 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 located at the front of the clubhouse.

Special Interest Housing

Honors Living and Learning Center

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 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 in the halls, and tutoring sessions held in the halls. 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 hall, 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 living in the First-Year Experience halls, 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 the use of full-time students with a spouse, and/or a dependent child or children residing with the full-time student. Family Student Housing rates cover utilities, including electric heat with an individual control per unit. Unfurnished apartments are not air conditioned. Semi-furnished apartments include a window air conditioning unit as well as a twin bedset, a 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

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. 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 will maintain 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 pre-payment. Pre-payment 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 or by TRAM (615) 898-2000.

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 the Keathley University Center 300. Information is also available at <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. Classes are selected via a touch-tone telephone using Telephone Response at Middle (TRAM) at (615) 898-2000 (9-898-2000 on campus) or via the Internet on the WebMT system at <http://www.mtsu.edu>

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

1. In order to be accepted to the University, all students, including re-enrollees and part-time students, must complete an admission application 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 (pre-selection of classes) for current, re-enrolling, new graduate students, or new undergraduates with a previous degree. Registration information is mailed to all students as a means of indicating eligibility for Priority Registration.
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 carries information on fee payment, late registration, and dropping and adding classes.
3. **It is strongly recommended that each student confer with a faculty advisor to obtain an approved list of classes on a Course Selection Worksheet to be used when classes are selected via TRAM or WebMT.**
4. Former students must settle all prior accounts in the Business Office and University Library before re-admission.

The following must be observed during the registration period:

1. All students who took an assessment test and who 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 Studies English course **and** either six hours in General Studies **or** three hours in General Studies **and** three hours in their major until they have satisfied the University's General Studies requirement. Upper-division students should have on file and follow a plan for major and minors.

Students may apply only one physical education activity course per semester to General Studies requirements.

2. The current class schedule book should be consulted for fee payment procedures and payment deadlines.
3. Upon completion of payment of fees, 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 validated each semester with 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 non-citizens who take up residency in the United States of America before their 26th birthday 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) dose 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.**

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. Additional information is on page 29.



Academic Regulations

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 Developmental Studies Department.

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.

While an academic advisor's signature is generally not required 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 academic dean of the college concerned and is conducted by means of a due process procedure. Cases of alleged cheating and unethical conduct should be reported to the dean of the college concerned. Each case of alleged misconduct will be investigated through interviews. 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 re-enrolling, 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 would not count toward requirements for graduation or professional licensure but would 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 four regular sessions: Session I, beginning in May, is approximately three weeks; Sessions II and IV are approximately five weeks in length; Session III (whole term) is approximately ten weeks. Additional sessions may be scheduled to accom-

modate 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, enrollment verification, 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.

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 non-attendance will be assigned a grade of F to appear on their transcripts, and non-attendance 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.

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 <http://www.mtsu.edu/~proffice> (or click on "Events and News" from the MTSU home page at <http://www.mtsu.edu>); or call the news line at 904-8215.

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.

No more than 66 semester hours completed or awarded in correspondence study, credit-by-examination, credit for service-related experience, and flight training may be counted for credit on a degree.

Course Numbers

ACA 0100 and 3000 are academic success. Courses numbered 0700-0790 are basic; 0800-0890 are developmental, level I; 0900-0990 are developmental, level II; 1000-1990 are on the first year or freshman level; 2000-2990 on the second year or sophomore level; 3000-3990 on the third year or junior level; 4000-4990 on the fourth year or senior level; 5000 and above on the fifth year or 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. In the case of a B.A. degree which requires only one minor, the second major may count as the required minor.

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.B.A. degree may not choose a second major that is not offered under the B.B.A. degree. As an example, a student pursuing a B.B.A. degree with a major in Business may not opt for a second major in History which is not offered under the B.B.A. 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.

The procedures and deadlines to drop and add a class are listed in the appropriate class schedule book. Students who stop attending a class but do 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 an associate dean of students and see the section "Withdrawals from the University" on page 54.

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.

Evening Classes

For the convenience of part-time students, many classes are scheduled on the campus in the evenings and on Saturdays. The Night 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. 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.

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 132 hours is required 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 48 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, enrollment verification, 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: 3.50-3.74
 Magna Cum Laude: 3.75-3.89
 Summa Cum Laude: 3.90-4.00

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.

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 meal tickets, and using Raider Funds. If any student loses his/her ID card or fails to have the card validated during registration, 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—not passing, necessitating repetition of the course to obtain credit (assigned only in certain courses)

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.

N/C—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 grading will not be retroactive to any term prior to Fall 2000. Re-enrollment students will not be eligible to have courses re-evaluated 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 appropriate group—Curriculum Committee (undergraduate) or Graduate Council. 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 correspondence study, credit-by-examination, credit for military service-related experience, flight training, and courses in which non-traditional 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 determined 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
	16		36

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.

Repeated Courses

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

- 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.

 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.
- 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 three-hour 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;
- 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.
- Veterans receiving educational assistance benefits may not repeat courses previously passed and receive veterans financial assistance for such.

- Students may not repeat a course in which they have previously earned the grade of A or B without written approval from the dean of the college which houses their major.
- Students may use either ENGL 2130 or ENGL 2230 or ENGL 2330 or HUM 2610 interchangeably for purposes of repeating a course.
- 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 quality point average required to achieve the baccalaureate or associate degree is 2.00.

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

- attain a 2.00 GPA for current term, or
- 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 re-enrollment policy on page 27.) Students previously suspended are not eligible for probationary status.

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

Effective with new transfer students enrolling Fall 2002, grades for the transfer courses will no longer be used in the calculation of the cumulative GPA.

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 IAP-66), 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—Appeals for undergraduate students will be reviewed by an appeals committee and consideration will be given for readmission if the student presents adequate evidence of ability, maturity, and motivation. Academic appeal forms for undergraduates are available in the Records Office, Cope Administration Building. 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 se-

mester, refer to current class schedule book, or access the Records Office homepage.

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.

Fall and Spring Semesters—Sixteen or seventeen semester hours of credit is the "normal" 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. A student desiring an overload must obtain overload permission from the dean of the college in which that student is pursuing a major at least two weeks prior to registration.

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 in order to graduate.

Summer—Following are the maximum number of semester hours in which an undergraduate student may enroll:

Session I - 4 hours

Session II - 8 hours

Session III - 14 hours

Session IV - 8 hours

All Sessions - combined total of 18 hours

Students who wish to enroll for credit hours in excess of these limitations must obtain permission from the appropriate dean as determined by the student's 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, verification of enrollment, 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 one 50-minute class period or equivalent, with all required preparation, during a Fall, Spring, or Summer term. 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 use the Telephone Response at Middle (TRAM), (615) 898-2000, or WebMT, <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 120. Consult the class schedule book for each term to determine whether withdrawal should be accomplished by TRAM or WebMT or through the University Withdrawal Office. Once classes have begun for the Summer term, withdrawal for that Summer term cannot be accomplished via TRAM or WebMT.

The Records Office will be notified of the withdrawal and will notify each of the student's professors regarding the withdrawal and its effective date as determined by the University Withdrawal Office.

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 reasons 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 the Counseling and Testing Center 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.

Undergraduate Degree Requirements

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 132 semester hours with a 2.00 grade point average. (Some programs may require more than 132 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 33 hours earned at MTSU is required; however, in degree programs of more than 132 semester hours a greater number of hours would be required.
3. At least 48 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 48 upper-division hours. A minimum of 30 semester hours of junior and senior (3000-4000 level) courses must be completed at MTSU.
4. Students must complete a minimum of 12 of the last 18 semester hours at MTSU. 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.
5. No more than 66 semester hours completed or awarded in correspondence study, credit-by examination, credit for service-related experience, and flight training may be counted for credit on a degree.
6. Students must complete at least nine semester hours at the upper-division level at MTSU in the major and at least three semester hours at the upper-division level at 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 2.00 minimum GPA will be required in a major pursued as a graduation requirement and a 2.00 is required in some minors.
9. All candidates must meet the General Studies requirements as outlined on pages 59-61 and satisfy a computer literacy requirement as outlined below.
NOTE: Information applicable to transfer students may be found on page 57.
10. No more than 25 percent of the credits for nonbusiness degrees may be in courses commonly found in a school of business; therefore, 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 secured in the office of the head of the department/school in which the student expects to major. A grade point average of 2.00 in the major field and on all work attempted is required for unconditional admittance to the upper division and to candidacy for the bachelor's degree.
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.
14. All persons initially enrolling in any college or university during or after Fall 1984 who seek a bachelor's degree from MTSU must have a basic knowledge of computers, including computer development, applications in today's world, and direct experience in operation. The University offers several alternatives whereby one may satisfy the computer literacy requirement. Students will select the option they deem most appropriate in light of their knowledge of computers and their plans, if any, to enroll in computer science or information systems courses at the university. The alternatives are:
 - a. achievement of a passing score on an examination in basic computer literacy. Students may contact the Department of Computer Science, Box 48, or extension 2397, for the scheduled examination times;
 - b. successful completion of CSCI 1000, Computer Literacy;
 - c. successful completion of any one of the following courses deemed equivalent to CSCI 1000:
 - a) CSCI 1150, 1160, or 1170
 - b) INFS 1000, 2200, or 3100
 The above courses are three hours credit each except CSCI 1160 and 1170 which are four;
 - d. attainment of certification as computer literate at another Tennessee Board of Regents university or community college;
 - e. presentation of coursework satisfactorily completed at a non-Tennessee Board of Regents institution and determined equivalent to CSCI 1000 by the Department of Computer Science.

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 72. 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. Twelve hours of one foreign language are required. The requirement may be reduced to six hours to include 2010 and 2020 or any courses numbered above the 2000 level for a student presenting four high school units of the same language. The basic required hours are counted toward a language major or minor. TBR policy requires that students planning to receive an associate of arts degree or a bachelor of arts degree must demonstrate proficiency in a foreign language equivalent to one year for the associate of arts degree and two years for the bachelor of arts degree.
4. At least 98 of the minimum 132 hours required for graduation must be in courses offered in the following subjects, but no more than 42 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 158.

Bachelor of Fine Arts

Requirements for the Bachelor of Fine Arts (B.F.A.) degree may be found on page 222.

Bachelor of Music

Requirements for the Bachelor of Music (B.M.) degree may be found on page 250.

Bachelor of Science

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

1. Complete a major with a minimum of 24 semester hours.
2. Complete two minors of at least 18 semester hours each except for majors in Aerospace (exception: Technology concentration), Agriculture, Art Education, Biology, Business Education, Chemistry, Computer Science, Marketing Education, Economics, Engineering Technology, Geoscience: Geography concentration (geogra-

phy for global commerce and resource management career patterns only) and Geology concentration (geology career pattern), Mathematics, Vocational Home Economics Education, Industrial Education, Industrial Technology, Physics, Science, and Speech and Theatre (Communication Studies and Communication Disorders concentrations only) in which one minor of at least 18 semester hours will be required. The major program in Interdisciplinary Studies requires a body of courses in preparation for the selected teaching field. Mass Communication majors must also have either one or two 18-hour (or more) minors depending upon the sequence chosen. The majors or concentrations in Early Childhood Education, Special Education, Professional Chemistry, and Environmental Science and Technology do not require a minor.

3. Specific requirements in the various departments must be met as listed in the colleges section of this catalog.
4. 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
 - a. the minimum requirement for entrance to the professional school is 60 semester hours of college work;
 - b. 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;
 - c. the last two semesters of pre-professional work are done at Middle Tennessee State University;
 - d. the candidate completes a minimum of 99 semester hours in required pre-professional courses;
 - e. 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;
 - f. 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 149.

Bachelor of Social Work

Requirements for the Bachelor of Social Work (B.S.W.) degree may be found on page 270.

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 of 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

1. 41 semester hours fulfilling the General Studies requirements;
2. completion of at least nine semester hours at the upper-division level at MTSU in the college of specialization;
3. a 2.00 GPA in the courses taken in the college of specialization;
4. 54 semester hours selected from at least three of the six undergraduate colleges (excluding Honors) subject to the following guidelines:
 - a. A minimum of 27 semester hours of the 54 semester hours must be taken at the upper-division (3000-4000) level.
 - b. A minimum cumulative grade point average of 2.00 GPA must be attained.

- c. 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.
- d. Upper-division courses with the prefixes ELED, READ, SPED, FOED, YOED, or SPSE may not be used.
- e. No fewer than 6 nor more than 12 semester hours may be taken in any one department. No more than 21 semester hours taken in departments within the Jennings A. Jones College of Business may be counted toward the B.Unv.S. degree.
- f. Courses taken to satisfy the General Studies requirements may not be counted to fulfill the 54 semester hours requirement in the University Studies program. Other courses from the General Studies 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:

1. A bachelor's degree previously earned must have been awarded by an institution of higher learning.
2. All requirements for the major program in the new degree must be met, including a minimum of 9 upper-division hours taken at 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. Minors required by the major must include 3 hours of upper-division work taken at MTSU in each.

3. The General Studies requirements for the first degree will satisfy General Studies 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 at MTSU.
4. If the computer literacy requirement described on page 55, No. 14, was not met for the first degree, the requirement must be fulfilled for the second degree.
5. A 2.00 grade point average on all work attempted must be attained.
6. A 2.00 grade point average 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.

Associate Degree

Associate in Applied Science in Law Enforcement

Requirements for the Associate in Applied Science in Law Enforcement (A.A.S.) degree include the completion of the curriculum listed on page 187 or approved substitutions.

Graduate Degrees

Information on graduate degrees available at 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 degree requirements of transfer students.

1. If a transfer student has earned an associate degree, the student must meet the following general degree 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 history
 - d. 12 quarter or 9 semester hours of natural/physical sciences/mathematics (to include at least one year of science and one course in mathematics)
 - e. 3 quarter or 2 semester hours of physical education activities (to be as 3 one-quarter or 2 one-semester courses)

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 Studies requirements as stated in the MTSU catalog under which the student chooses to graduate.

Tennessee Board of Regents (TBR) Minimum Degree Requirements and Transferability of Courses

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. The minimum degree requirements specify 32 semester credit hours in the following subject areas:

Subject Area	Credit Hours
English composition	6 hours
Humanities (including at least 3 hours in literature)	9 hours
History	6 hours
<i>NOTE: TBR universities require American history, except in a limited number of majors exempted from the requirement. (See specific university catalogs concerning majors that are exempt.) Community colleges may specify American history, western civilization, world civilization, or world history in accordance with the requirements of institutions to which students plan to transfer. At either universities or community colleges, students may substitute 3 semester hours of Tennessee history for the American history required.</i>	
Natural/Physical Sciences and Mathematics (to include one year of science and at least one course in mathematics)	9 hours
Physical Education Activity Courses (to be taken as two one-semester credit hour courses)	2 hours
<i>NOTE: Institutions may substitute satisfactory participation in ROTC, marching band, or armed forces experiences for physical education activity courses)</i>	

Every TBR institution incorporates the 32 semester hours listed above into its degree program requirements and accepts all courses designated as meeting these requirements at other TBR institutions. By ensuring the transferability of courses fulfilling the minimum degree requirements, the TBR has eliminated unnecessary repetition of these courses by students transferring to institutions within the TBR system. Be-

cause each TBR institution has a unique mission and its own distinctive curriculum, an institution may require students to complete additional courses in the minimum degree subject areas and in other areas within an institutional General Education program. Students planning to receive a bachelor of arts or associate of arts degree must demonstrate proficiency in a foreign language as prescribed in the institutional degree requirements.

Although the courses fulfilling the minimum degree requirements may vary in actual design among institutions, many contain similar content. These courses are identified by common course rubrics (prefixes) and numbers in all TBR institutions to facilitate transferability.

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” 48 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.

Mass Communication Average—All College of Mass Communication courses in excess of the required 132 hours required for graduation are used to determine the cumulative GPA.

Basic/Developmental Courses—These courses are calculated into the cumulative GPA to determine retention; however, the basic/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—Effective with new students Fall 2002, the cumulative average will include quality hours from courses taken only at MTSU. The first attempt of a repeated course is excluded.

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 Studies

The following vision, mission statement, and goals for the General Studies Program were developed by the University Committee on General Studies and have been officially adopted by MTSU.

Vision

The General Studies Program at Middle Tennessee State University will provide all students with the intellectual building blocks that will make it possible to find meaning in an ever-changing world. The program will focus on the sciences, liberal arts, and fine arts and include the interdisciplinary nature of knowledge and the methods of inquiry demanded in a variety of fields. The program through lower-division courses, upper-division courses, and a capstone experience will explore cultural diversity, values, ethics, global issues, and the individual's responsibility as a citizen of the community and the world.

Mission Statement

The General Studies 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 Studies 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 them-

selves 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 Studies 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 Studies Requirements

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

Listed below are the requirements in General Studies which all candidates for baccalaureate degrees must meet regardless of the department or college in which they are pursuing a major. It is these requirements that are referred to as Area I-A and the like in the recommended and required programs listed in the departmental copy later in this catalog. 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 Studies English course and either 6 hours in General Studies or 3 hours in General Studies and 3 hours in their major until they have satisfied the University General Studies requirements.

Many academic majors require or recommend specific courses within the General Studies area. Consult your major advisor about specific General Studies requirements.

Area I: The Analysis, Organization, and Communication of Ideas 9 semester hours

- A. A six-semester hour requirement in freshman composition is to be met as follows:
1. 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, page 33.
 2. 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.
 3. 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.
 4. 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 86.
 5. **If SAT scores are used:**
 - a. Students whose SAT verbal scores are 450 or below must undergo further testing.
 - b. Students whose SAT verbal scores are 460 through 710 are placed in ENGL 1010 and 1020 in sequence.
 - c. 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 one of the following courses to meet the remaining three-hour requirement in this area:

Foreign Language 1010

(substitution: Foreign Language 2010 plus 2020, 6 hours)

JOUR 1020 or RATV 1020

PHIL 2110

COMM 2200 or 3230

(Students seeking state teacher licensure should take COMM 2200 or COMM 4000.)

Area II: Humanities and Fine Art 9 semester hours

- A. The 6 semester hours required in literature are to be met as follows:

ENGL 2030 plus ENGL 2130 or 2230 or 2330 or HUM 2610

(Students must successfully complete ENGL 2030 before enrolling in ENGL 2130, 2230, or 2330.)

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

- B. Students should choose one of the following courses to meet the remaining 3-hour requirement in this area:

ART 1030

HIST 1010, 1020, 1110, or 1120

MUS 1030

(substitution MUTH 1110 and 1120, 8 hours)

PHIL 1030

(substitution: PHIL 3150 plus 3300, 6 hours)

THEA 1030

The 12 hours of art and music required for the Interdisciplinary Studies major fulfills the II-B General Studies requirement.

Area III: Social and Behavioral Sciences

9 semester hours

- A. Six semester hours must be chosen from these courses:
 HIST 2010, 2020, 2030 (3 credit hours each)
 (HIST 2010 is not a prerequisite for HIST 2020)
- B. Three semester hours must be chosen from these courses (each earns 3 credits):
 AAS 2100
 ANTH 1010 or ANTH 2010
 BMOM 2000
 ECON 2410*
 GEOG 2000
 (substitution: any two of the following regional geography courses: 3401, 3402, 3410, 3420, 3430, 3450, 3460, 3470, 6 hours)
 P S 2010 or 1010
 PSY 1410
 SOC 1010
 WMST 2100

*NOTE: Jennings A. Jones College of Business majors must take ECON 2410.

Area IV: Natural Science and Mathematics

11 semester hours

- A. An eight-semester hour requirement in natural science is to be met as follows:
 BIOL 1030, 4 hours
 (substitution: BIOL 1110 plus 1120, 8 hours)
and either
 GEOL 1030 and GEOL 1031, 4 hours
 (substitution: GEOL 1040 and 1050)
or
 PSCI 1030 (Physical Science), 4 hours
 (substitution: PHYS 2010, 2011, 2020, 2021 or PHYS 2110, 2111, 2120, 2121 or CHEM 1010, 1011 plus 1020, 1021, or CHEM 1110, 1111 plus 1120, 1121, 8 hours)
- B. The remaining three-hour requirement in this area is to be met as follows:
 MATH 1010
or

one three-hour mathematics course which has as its prerequisite at least two years of high school algebra. MATH 1410, 1420, and 4010 will not satisfy this requirement.
NOTE: Jennings A. Jones College of Business students majoring in Accounting, Business Administration, Economics, Entrepreneurship, Finance, Information Systems, Management or Marketing must complete MATH 1610 and 2020 or 1810.

Students will be required to complete a sequence of courses based on their high school mathematics as outlined below. This requirement is applicable to all freshmen entering MTSU for the first time and to those transfer students who do not hold an associate's degree from another Tennessee Board of Regents school.

Unless the academic assessment placement test places an individual differently (see Developmental Studies, page 86), a student entering MTSU with

1. two years of algebra and a mathematics Enhanced ACT greater than 25—(Math SAT greater than 580) or with senior advanced mathematics should take the appropriate mathematics courses for his/her major.
2. two years of algebra and a mathematics Enhanced ACT Assessment of 19-25—(Math SAT 460-580) should take MATH 1010 or take MATH 1710 or 1730 and earn at least a C before taking other mathematics courses. Students preparing to become elementary school teachers should take MATH 1410 and 1420.
3. a mathematics Enhanced ACT less than 19—(Math SAT less than 460) must take an academic assessment placement test in mathematics for proper placement. (See Developmental Studies Program, page 86.)
4. one year of algebra must take DSPM 0850 before taking other mathematics courses.
5. no algebra must take DSPM 0800 and DSPM 0850 before taking other mathematics courses.

Area V: Health, Physical Development, and Recreation

4 semester hours

This requirement is to be met by either:

four semester hours of physical activity courses (only one activity course may be taken per semester for General Studies credit)

or

two semester hours of physical activity courses plus PHED 2100 (Health).

NOTE: Two semesters of basic Military Science courses or Marching Band may be substituted for two courses of General Studies physical activity credit, but this substitution does not meet teacher licensure requirements. Students whose physical limitations prevent their full participation in the basic instructional program will be placed in activities commensurate with their abilities.

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
English (4 units)	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.
Algebra (2 units)	DSPM 0700 Basic Mathematics DSPM 0800 Elementary Algebra DSPM 0850 Intermediate Algebra	No	Developmental Studies	See above.
Geometry	DSPM 0990 Basic Geometry	No	Developmental Studies	
Natural/Physical Science (2 units)	Section A GEOL 1030 Introduction to Earth Science PSCI 1030 Topics in Physical Science	No No	Geography and Geology 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.
	Section B BIOL 1110 General Biology	(Local Test) No	Biology	
	CHEM 1010, 1011 Introductory General Chemistry	No	Chemistry	
	PHYS 1300 Discovering Physics	No	Physics and Astronomy	
Social Studies	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	Geography and Geology History History	Students must complete one of the listed courses.
History	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.
Foreign Language (2 units) in same language	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.
Visual/Performing Arts	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.

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 18 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: Bonnie Shipp, PH 109C
See page 79 for additional information.

Aging Studies

Director: Ron Aday, PH 365
See page 80 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 19 credit hours, including 10 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 (10 hours):

ANTH 1010 Introduction to Anthropology OR
ANTH 2010 Cultural Anthropology
ANTH 3610 Archaeological Methods OR
ANTH4950 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 2210 Introduction to World Prehistory
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
GEOG 4560 Archaeo-Geography
GEOL 1040 Physical Geology
GEOL 4020 Geomorphic Regions of the United States
GEOL 4160 Geologic Remote Sensing
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: Melissa Schrift, 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	Problems 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 discipline 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	2330	Special Topics 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: June McCash, Department of Foreign Languages and Literatures, BDA 310

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)

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FREN	4030	Topics in Nineteenth-Century French Literature
FREN	4060	Topics in Neoclassical French Literature
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 Studies 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
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

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	2330	Special Topics in Literature and Culture
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, Australia and Oceania, 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
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
HIST	3170	History of the American South in Film
JOUR/ RATV	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: Anne Sloan, PH 252

See page 81 for additional information.

Great Books

Advisor: Michael J. Neth, Department of English, PH 341

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	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	3450	Development of the Novel in the Eighteenth Century
ENGL	3460	Development of the Novel in the Nineteenth Century
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
ENGL	4340	Tragedies of Shakespeare

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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	3030	Topics in African-American History
HIST	4410	Classical History
HIST	3090	Topics in European History
JOUR	3650	Free Expression, Mass Media, and the American Public
JOUR	4800	Seminar in Media Issues
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	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."

Non-College of Liberal Arts courses:

JOUR/RATV	1020	Understanding Mass Media
JOUR/RATV	3000	Introduction to Motion Pictures
JOUR/RIM	3100	Music as Popular Culture
JOUR/RATV	3510	Media History and American Culture
JOUR/RIM/ RATV	3650	Free Expression, Mass Media, and the American Public
RIM	3000	History of Recording Industry
U H	4600	Senior Interdisciplinary Seminar: Literature and Television
WMST	4204	Symposium: Women and Television

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, PHED, 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 Caribbean and Central America
ANTH 3521	Mesoamerican Archaeology
ART 3871	Art of the Americas
ART 3872	Art of the Americas
ART 3880	Contemporary 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 4560	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.

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/RATV 1020 must take it also; history majors must substitute JOUR/RATV 1020 for one of the core history courses. Journalism and Radio-Television/Photography majors must select their four electives from the College of Liberal Arts courses. No more than two courses may be taken for minor credit from any one department.

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/RATV 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 4760 America Divided: Race, Class, and Gender
 HIST 4740 American Cultural and Intellectual History
 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/RATV 1020 Understanding Mass Media
 JOUR/RATV 3000 Introduction to Motion Pictures
 JOUR/RIM 3100 Music as Popular Culture
 JOUR/RATV 3510 Media History and American Culture
 JOUR/RIM/
 RATV 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 Radio-Television/Photography majors.

Medieval Studies

Advisor: Ronald A. Messier, Department of History, PH 263

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
 UH 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

Electives (15 hours):

ANTH 3515 Peoples and Cultures of Native North Americas
 ANTH 3520 North American Prehistoric Archaeology
 ANTH 4910 Special Projects
 ART 3870 Art of the Americas
 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 individuals 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
 ENGL 3530 Legal Writing and Research

Electives (6 hours):

PLEG 4010 Internship
 P S 4590 Administrative Law
 BLAW3400 Legal Environment of Business
 BLAW3430 Commercial Law
 BLAW3450 Unfair Trade Practices and Consumer Protection
 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
 BMOM2330 Word Processing Concepts
 INFS 2200 Introduction to Microcomputing

Southern Studies

Advisor: Robert Hunt, Department of History, PH 276

The Southern Studies minor provides a multi-dimensioned 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 multi-disciplined 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: Tyson King-Meadows, 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	4770	Pollution Control Technology
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 82 for additional information.

Writing

Advisor: Maria Clayton, Department of English, PH 329

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
ENGL	3500	Advanced Composition
ENGL	3520	Professional Writing
ENGL	3530	Legal Writing and Research
ENGL	3540	Fiction Writing
ENGL	3550	Poetry Writing
ENGL	3560	Playwriting
ENGL	4000	Writing Internship
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
RATV	3020	Writing for the Electronic Media
RATV	3060	Writing for the Digital Media
RATV	4020	Advanced Scriptwriting
THEA	4600	Storytelling
THEA	4820	Playwriting

Division of Student Affairs

Recognizing that an integral part of the university experience and an individual student's personal development take place through activities outside the formal classroom setting, the Division of Student Affairs 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 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 learning environment by providing opportunities to facilitate social, intellectual, physical, and emotional growth; to assist students to become actively involved in campus life; to serve as an advocate for student concerns to the University community; and to encourage an environment responsive to individual differences and representative of the diversity of MTSU's population.

The Division of Student Affairs is managed by the vice president for Student Affairs and is composed of three units. Each unit is managed by a separate dean and is intended to provide similar services. While the units are designed to operate independently, they are also designed to work interdependently to realize the overall goals and purposes of the Division of Student Affairs. The units are Student Life, Student Services, and Academic Support Services. Each area is described below.

The Office of the Vice President for Student Affairs

The role of the vice president for Student Affairs is to be the primary advocate for all students. It is the responsibility of the vice president 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, it is vital for every student to recognize that the vice president is his/her advocate and that every student has a right to meet personally with the vice president to seek assistance. The Office of the Vice President for Student Affairs is located in KUC 212, (615) 898-2440.

Student Life

The Student Life unit includes those programs that provide students opportunities for involvement and expression, service to the community, and leadership development. Specific programs/services include

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, which opened in Fall 1995, provides students with 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 adjacent. 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.

Fraternities and Sororities

Greek organizations at MTSU are self-governed by three separate bodies. The Interfraternity Council is composed of eleven member fraternities of the National Interfraternity Conference; the Panhellenic Council consists of seven member chapters of the National Panhellenic Conference sororities; 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 which facilitate the development of leadership skills, social acumen, and superior scholarship within the Greek community.

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 which adversely affects MTSU's pursuit of its educational objectives, which violates or shows a disregard for the rights of others in the community, or which endangers citizens of the community or their property is subject to disciplinary sanction. MTSU has developed a student judicial system which 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 that assists 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 130.

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 SGA are to promote student welfare, provide training in the general principles of the democratic process, and to prepare students to become responsible citizens. 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 Information

The Keathley University Center Office (KUC 304) maintains an information system on currently enrolled students. Persons seeking assistance 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 or in the Keathley University Center Office, Room 304.

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 306B, 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 currently registered student organizations.

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 provides 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.

The Ticket Office also is supervised through the Office of Student Programming and is located in the northeast corner of Murphy Center. A satellite office is located off Faulkinberry Drive in the stadium. MTSU students are admitted free to all regularly scheduled home games. More information about all MTSU athletic ticket sales may be obtained by calling (615) 898-2103.

Student Publications

Student Publications publishes the campus newspaper, *Sidelines*; the yearbook, *Midlander*; and the magazine, *Collage*. 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.

Sidelines is distributed free on campus three times weekly during the Fall and Spring semesters and once each week during the Summer term. A new editor is chosen by the Student Publications Committee each semester. *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 Fall, the production process goes on year-round. The editor of the yearbook is chosen each Spring and serves for one year. The yearbook is available for purchase at Fall and Spring registration and during the Fall semester through the *Midlander* office, James Union Building, Room 306. *Collage* serves as an outlet for creativity of all varieties. Published each semester, the magazine may include poetry, fiction and non-fiction, 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.

Disabled Student Services

Disabled Student Services is the coordinating body which distributes information concerning services available 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 or visiting the office located in Keathley University Center, Room 120.

MTSU's ADA/504 coordinator is Watson Hannah, 119 Cope Administration Building, (615) 898-5366.

Financial Aid

Financial Aid information is detailed earlier in this catalog.

Student Services

The Student Services unit of the Division of Student Affairs provides services intended to increase students' likelihood of successfully completing their academic programs. These services to meet and support primary student needs 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 re-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 for classes 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.

Guidance Services

The three-fold mission of Guidance Services is to provide currently enrolled students with career and vocational testing and counseling, academic counseling for undeclared majors, and personal support counseling.

Career and vocational questions may be addressed through academic testing, career testing, and/or one-on-one counseling for personal insight.

Academic counseling for undeclared majors may include a simple visit with a counselor prior to class registration to review individual progress on core course requirements. It may also include a career counseling plan to explore various career possibilities with a minimal duplication of course hours.

Personal support counseling offers a safe place and support for students who are having difficulties because of personal problems; external pressures; or crisis such as depression, addiction, or grief. Support counseling is a tool for healthy academic functioning. It may simply be a "listening



ear” or include professional assessment and referrals for community support, medical needs, or long-term therapy.

Guidance Services seeks to work with faculty and students to plan and achieve both the educational goals of the institution and the personal and vocational goals of the individual student. Students desiring any of the services are urged to contact the office, Keathley University Center, Room 329, or to call (615) 898-2670.

Absence Notifications

If students know in advance that they will be unable to attend a particular class(es) for **more than one day**, every effort should be made to contact the professor of each class that will be missed. If emergency circumstances prevent contacting the professor or department, the student may contact the coordinator of University Withdrawals in the Withdrawal Office, KUC 120, (615) 898-2080, who will make the notification. An excused absence can only be authorized by the instructor in a particular class.

Withdrawals

Students finding it necessary to withdraw (completely separate) from the University after having selected classes for a future term should use the Telephone Response at Middle (TRAM), (615) 898-2000, or WebMT, <http://www.mtsu.edu>, to drop all classes. A student may also initiate the official withdrawal process in Keathley University Center, Room 120. Consult the class schedule book for each term to determine whether withdrawal should be accomplished by TRAM or WebMT or through the University Withdrawal Office. Once classes have begun for the Summer term, withdrawal for that Summer term cannot be accomplished via TRAM or WebMT. Additional information with regard to this procedure is detailed on page 54 under Academic Regulations.

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 advising, 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.

Career and Employment Center

The University provides a year-round centralized placement service for its students and alumni through the Career and Employment Center located in Keathley University Center, Room 328. The program is designed to assist prospective graduates and alumni in securing career positions. Each year employers from business, industry, government, and educa-

tion 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, 898-2500. Referrals to prospective employers will be made by the center.

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. Consultation service for individual problems and the treatment of minor illnesses and injuries by the Health Services personnel are available during the periods 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.

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 or use the JAWC library. A resource and referral file includes information on financial aid for women, housing, and community legal, health, and mental health services.

The Women's Leadership Conference for college and university women students is coordinated through the JAWC and the Women's Studies Program in the spring. Students are invited to attend and to volunteer for this and other 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.

A full-time professional counselor is available at the Women's Center for crisis intervention and personal counseling for students dealing with women-identified issues and concerns. Confidentiality is assured. The counselor may be contacted at (615) 898-5725.

Additional information about the Women's Center's activities or services is available by calling (615) 898-2193 or via the Internet.

Academic Support Services

The Academic Support Services unit is primarily responsible for those programs and services that unite the academic program with the student's daily experience. The Academic Support Services unit welcomes students into the University community and introduces them to the concept of **learning communities**. These programs and services include

Housing and Residential Life

MTSU currently provides living spaces for more than 3,500 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), and 24-hour desk services (also in selected buildings). Apartments which 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 44-47.

Orientation (CUSTOMS)

Orientation for freshmen and undergraduate transfer students is provided during the summer prior to matriculation. Several sessions are offered to accommodate individual schedules. The programs allow new students to meet an academic advisor, participate in pre-selection of courses, and become familiar with campus activities and services. Current topics of special concern to college students are also addressed. All new students and their parents or spouses are encouraged to attend.

Questions concerning orientation should be directed to the director of New Student Orientation (CUSTOMS), Keathley University Center 122, (615) 898-2454.

Student Development

The Office of Student Development provides MTSU students with a variety of services relating to academic success, stu-

dent involvement, and leadership. CUSTOMS, the new student orientation program, helps prepare freshmen and transfer students for a successful transition to the MTSU campus. Student leadership programs, including Lightning Leadership Camp, provide students with opportunities to develop important skills in working with others and to promote service to the university community through active involvement in clubs, organizations, and paraprofessional positions. Student recognition awards acknowledge outstanding achievement in the areas of academics, leadership, and service through the presentation of university awards, induction into honorary societies, and such national programs as Who's Who Among Students in American Colleges and Universities. Other programs coordinated through the Student Development Office include alcohol awareness programming, service learning, the MTSU Parent's Association, the Distinguished Lecture Series, and the Freshman Forum.

Contact the Office of Student Development by visiting the staff in Room 122 of the Keathley University Center or by calling (615) 898-2454.

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 provide students with opportunities to apply newly acquired skills and knowledge to real-world problems and situations in the Murfreesboro community. Classroom time provides a structured opportunity for students to think, talk, or write about what the student 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. Current service learning opportunities include such projects as an oral history/writing project, offered as a part of the English curriculum, and work with a community project for the aged, offered as a part of the curriculum for Human Sciences. Service learning classes will vary each semester.

For more information about Service Learning, contact the Student Development Office in Room 122 of the Keathley University Center, or call (615) 898-2454.

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 unique, Raider Learning Communities students are able to take advantage of ongoing connections with 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 "home" groups of 25 students, who enroll as a group together in at least two courses in the Fall semester and one in the Spring semester. Course blocks usually include University 1010 and English 1010. On-campus RLC students are assigned to shared living space within the Freshman 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 RLC gives them a built-in group of friends and academic colleagues, providing a real enhancement to their 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.

First-Year Experience

Cummings Hall and Corlew Hall, seven-story high-rise 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 for first-year students at MTSU including lower-division classes taught in the Cummings Hall classroom, academic advisors who hold office hours in the halls, 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.

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 the new 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.

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

School of Music

The Band of Blue, MTSU’s marching band; Symphonic Band; Wind Ensemble; Chamber Choir; Meister Singers; Schola Cantorum; Women’s Chorus; MTSU Singers; Opera Workshop; MTSU Symphonic Orchestra; String Orchestra; Jazz Ensembles; Percussion Ensembles; Commercial Music Ensemble; University Chorus; Salsa Bands; Jazz Combos; Mixed Chamber Ensembles; Chamber Brass Ensemble; Guitar Chamber Ensemble; Piano Chamber Ensemble; String Chamber Ensemble; and Woodwind Chamber Ensemble are all organizations of student performers. Each ensemble 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 now 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 newly created 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 MTSU National Alumni Association encourages interaction between Middle Tennessee State University and the extended University family of alumni, students, parents, and friends through a variety of activities and programs. Through the promotion and development of geographical alumni chapters and reunion programs, the Alumni Association stimulates and enhances communication for MTSU. Events and activities in conjunction with University athletic and fine arts programs, especially at Homecoming, are held to offer continuing support and interaction. Establishing and promoting scholarships is an on-going endeavor of the Alumni Association as well as the maintenance of the alumni information database and development of periodic alumni directories. The Alumni Relations Office is located in the Alumni Center, one of the four original buildings on campus.

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 among the university, its alumni, and the community at large. It helps to 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 worked with area elementary schools to promote students’ reading skills. It uses athletic, 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. There are two ticket office locations; one is in Murphy Center on the track level and the other is at Floyd Stadium Gate IA. 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.



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 18 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: Bonnie Shipp, PH 109C
See page 79 for additional information.

Aging Studies

Director: Ron Aday, PH 365
See page 80 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 19 credit hours, including 10 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 (10 hours):

ANTH 1010 Introduction to Anthropology OR
ANTH 2010 Cultural Anthropology
ANTH 3610 Archaeological Methods OR
ANTH4950 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 2210 Introduction to World Prehistory
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
GEOG 4560 Archaeo-Geography
GEOL 1040 Physical Geology
GEOL 4020 Geomorphic Regions of the United States
GEOL 4160 Geologic Remote Sensing
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: Melissa Schrift, 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 Problems 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 discipline 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 2330 Special Topics 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: June McCash, Department of Foreign Languages and Literatures, BDA 310

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)

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FREN	4030	Topics in Nineteenth-Century French Literature
FREN	4060	Topics in Neoclassical French Literature
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 Studies 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
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

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	2330	Special Topics in Literature and Culture
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, Australia and Oceania, 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
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
HIST	3170	History of the American South in Film
JOUR/ RATV	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: Anne Sloan, PH 252

See page 81 for additional information.

Great Books

Advisor: Michael J. Neth, Department of English, PH 341

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	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	3450	Development of the Novel in the Eighteenth Century
ENGL	3460	Development of the Novel in the Nineteenth Century
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
ENGL	4340	Tragedies of Shakespeare

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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	3030	Topics in African-American History
HIST	4410	Classical History
HIST	3090	Topics in European History
JOUR	3650	Free Expression, Mass Media, and the American Public
JOUR	4800	Seminar in Media Issues
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	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."

Non-College of Liberal Arts courses:

JOUR/RATV	1020	Understanding Mass Media
JOUR/RATV	3000	Introduction to Motion Pictures
JOUR/RIM	3100	Music as Popular Culture
JOUR/RATV	3510	Media History and American Culture
JOUR/RIM/ RATV	3650	Free Expression, Mass Media, and the American Public
RIM	3000	History of Recording Industry
U H	4600	Senior Interdisciplinary Seminar: Literature and Television
WMST	4204	Symposium: Women and Television

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, PHED, 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 Caribbean and Central America
ANTH	3521	Mesoamerican Archaeology
ART	3871	Art of the Americas
ART	3872	Art of the Americas
ART	3880	Contemporary 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	4560	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.

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/RATV 1020 must take it also; history majors must substitute JOUR/RATV 1020 for one of the core history courses. Journalism and Radio-Television/Photography majors must select their four electives from the College of Liberal Arts courses. No more than two courses may be taken for minor credit from any one department.

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/RATV 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 4760 America Divided: Race, Class, and Gender
 HIST 4740 American Cultural and Intellectual History
 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/RATV 1020 Understanding Mass Media
 JOUR/RATV 3000 Introduction to Motion Pictures
 JOUR/RIM 3100 Music as Popular Culture
 JOUR/RATV 3510 Media History and American Culture
 JOUR/RIM/
 RATV 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 Radio-Television/Photography majors.

Medieval Studies

Advisor: Ronald A. Messier, Department of History, PH 263

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
 UH 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

Electives (15 hours):

ANTH 3515 Peoples and Cultures of Native North Americas
 ANTH 3520 North American Prehistoric Archaeology
 ANTH 4910 Special Projects
 ART 3870 Art of the Americas
 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 individuals 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
 ENGL 3530 Legal Writing and Research

Electives (6 hours):

PLEG 4010 Internship
 P S 4590 Administrative Law
 BLAW3400 Legal Environment of Business
 BLAW3430 Commercial Law
 BLAW3450 Unfair Trade Practices and Consumer Protection
 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
 BMOM2330 Word Processing Concepts
 INFS 2200 Introduction to Microcomputing

Southern Studies

Advisor: Robert Hunt, Department of History, PH 276

The Southern Studies minor provides a multi-dimensioned 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 multi-disciplined 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: Tyson King-Meadows, 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	4770	Pollution Control Technology
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 82 for additional information.

Writing

Advisor: Maria Clayton, Department of English, PH 329

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
ENGL	3500	Advanced Composition
ENGL	3520	Professional Writing
ENGL	3530	Legal Writing and Research
ENGL	3540	Fiction Writing
ENGL	3550	Poetry Writing
ENGL	3560	Playwriting
ENGL	4000	Writing Internship
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
RATV	3020	Writing for the Electronic Media
RATV	3060	Writing for the Digital Media
RATV	4020	Advanced Scriptwriting
THEA	4600	Storytelling
THEA	4820	Playwriting

African American Studies Program

Bonnie Shipp, Director
Peck Hall 109C

The African American Studies Program offers an undergraduate interdisciplinary minor. The primary objective is to provide students an opportunity to examine the multi-dimensional, 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.



80 Interdisciplinary Minors

Required courses (12 hours):

AAS	2100	Introduction to African-American Studies
AAS/ENGL	2330	Special Topics 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/COMM	4560	Intercultural Communication
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 (210) 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 (460) 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 (499) 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
Peck Hall 365

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
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
SOC	4080	Group Work with the Elderly
CDIS	4800	Speech, Language, and Auditory Problems of the Aged

Courses in Aging Studies [A S]

- 2600 (260) 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 (403) 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 (480) 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 (490) 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

Anne T. Sloan, Director
Peck Hall 252

The objectives of this interdisciplinary minor are to prepare students to make effective decisions as citizens of an interconnected world, induce global perspectives in students as they pursue various academic majors, and increase the academic opportunities for undergraduate students to study and learn about other cultures in relation to their own.

Requirements

Twenty-one semester credit hours are required for the minor. The requirements include the three-hour introductory course G S 2010 and the senior seminar G S 4990. Students will be required to take one course beyond the University foreign language requirement and meet a field experience requirement (see the Global Studies advisor).

The remaining 15 semester credit hours will be selected from any of the courses that have been approved for inclusion in the minor. Students may take only two courses in a single discipline. Students should see the Global Studies program advisor to assist in the selection of these courses.

Upon entry into the program, students contact the Global Studies director to be assigned a global studies minor advisor. The advisor will recommend a course of study for the student after assessing interests and career goals.

Interdisciplinary

G S	2010	Introduction to Cross-Cultural Experiences (required)
G S	3010	Field Experience and Study in Another Culture
G S	4990	Senior Seminar (required)

Departmental

BIOL	3050	Parasitology
BMOM	4670	International Business Communication
ECON	3540	Japanese Economy and Business
ECON	4470	Economic Development of the Third World
FREN	3030	Business French
FREN	3130	Twentieth Century Women Writers in French
GEOG	3410	Geography of the U.S. and Canada
GEOG	3420	Geography of Latin America
GEOG	3430	Geography of Europe
GEOG	3450	Geography of Australia and Oceania
GEOG	3460	Geography of the Former Soviet Union
GEOG	3470	Geography of Africa
GEOG	4330	Political Geography
GEOG	4360	Cultural Geography
GEOG	4500	Geography of the Middle East
GEOG	4540	Geography of Native Americans
GEOG	4550	Global Issues
GERM	3030	Business German

HIST	1110	Survey World Civilization I
HIST	1120	Survey World Civilization II
HIST	3150	Global History: 1945-1975
HIST	4490	Mexico and the Caribbean
HUM	2610	Foreign Literature in Translation
EST	2810	Introduction to Environmental Science
MGMT	4620	International Human Resource Management
MGMT	4710	International Business
MUHL	4130	Survey of World Music
PHIL	3200	Oriental Thought
P S	3000	The Political Status of Women in the World
P S	3180	African Politics
P S	3190	Middle East Politics
P S	3210	International Relations
P S	3300	Comparative European Governments
P S	3310	Comparative Asian Governments
P S	3500	International Law
P S	3510	International Political Economy
P S	3770	The Former Soviet Union
P S	3900	Latin American Politics
P S	4220	World Politics
PSY	4620	Psychology of Women
PSY	4720	Multicultural Perspectives in Psychology and Education
RIM	3890	International Recording Industry
ANTH	2010	Cultural Anthropology
ANTH	3510	Peoples and Cultures of Asia
ANTH	3511	Peoples and Cultures of Oceania
ANTH	3512	Peoples and Cultures of South America
ANTH	3513	Peoples and Cultures Mexico and Central America
ANTH	3514	Peoples and Cultures of Africa
ANTH	3515	Peoples and Cultures of Native North America
ANTH	3516	Peoples and Cultures of Europe
SPAN	3030	Business Spanish
COMM	4560	Intercultural Communication
U H	4600	Senior Interdisciplinary Seminar: Contemporary Middle Eastern Culture

Courses in Global Studies [G S]

2010 (201) Introduction to Cross-Cultural Experiences. Three credits. Required of all Global Studies minors. Establishes a broad-based foundation for understanding perspectives and values in a culture other than one's own. Topics may include inter-cultural communications, verbal and non-verbal interaction, psychology of inter-cultural contact, cross-cultural behavior concepts, and ethnocentrism and geocentrism. This course will be offered on campus as well as in the field.

3010 (301) Field Experiences and Study in Another Culture. One to twelve credits. Prerequisite: G S 2010 for all Global Study minors. Planned study on a specified topic or discipline in a foreign country or another culture. May be preceded by classroom preview and concluded by a time of evaluation; may be in the form of independent study or academic coursework.

4990 (499) Senior Seminar. Three credits. Culmination of Global Studies minor requiring integration and demonstration skills and sensitivities necessary to function in a multicultural environment.

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, 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

The minor requires 18 semester hours within an interdisciplinary structure. All students pursuing the minor are required to take WMST 2100, 4500, and one from the following: WMST 2500, 3000, 3001, 3500, or a course from the WMST 4200 series. The remaining 9 hours may be selected from the program or departmental courses listed below. Students may apply credit for no more than one course from any single major field without permission of the Women's Studies director.

Interdisciplinary

- WMST 2100 Introductory Women's Studies
(required for all minors)
Students should choose WMST 2100 as part of the General Studies requirement under Area III-B, Social and 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 3050 Women and Poverty (same as S W 3050)
WMST 3500 Women in the Media
WMST 3700 Women, Crime, and Justice Administration (same as CJA 3700)
- WMST 4200 Symposium in Women's Studies (series)
WMST 4500 Feminist Theory (required for all minors)
WMST 4900 Independent Studies

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
ANTH 4760 Kinship and Marriage
ART 4910 Women in Art
CDFS 4340 The Contemporary Family
CJA 3700 Women, Crime, and Justice Administration
COMM 3225 Gender Communication
ENGL 2230 Themes in British Literature
ENGL 2330 Special Topics in Literature and Culture
ENGL 2330 Women in Science Fiction
ENGL 2330 Women Playwrights
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: The African-American Woman
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
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: Women and Aging
S W 3050 Women and Poverty
THEA 3870 Women in Theatre

Courses in Women's Studies [WMST]

- 2100 (210) 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 (250) 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 (300) 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, 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 (301) 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, 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 (305) 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 (370) Women, Crime, and Justice Administration.** Three credits. (See CJA 3700.)
- 4201- (420 A-Z) 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 (420A) Women and Religion**
 - 4202 (420B) Lesbian Studies**
 - 4204 (420D) Women and Television**
 - 4205 (420E) Women and Science**
 - 4206 (420F) Women and the Holocaust**
 - 4207 (420G) Women and Social Construction of Illness**
 - 4209 Desire in History and Literature**
- 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 (490) Independent Studies.** 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

John Paul Montgomery, Dean
Peck Hall 106

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.

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 18 hours of lower-division Honors coursework;
2. complete a minimum of 8 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, UH 4900, for 1 hour credit;
5. complete the Honors Thesis, UH 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

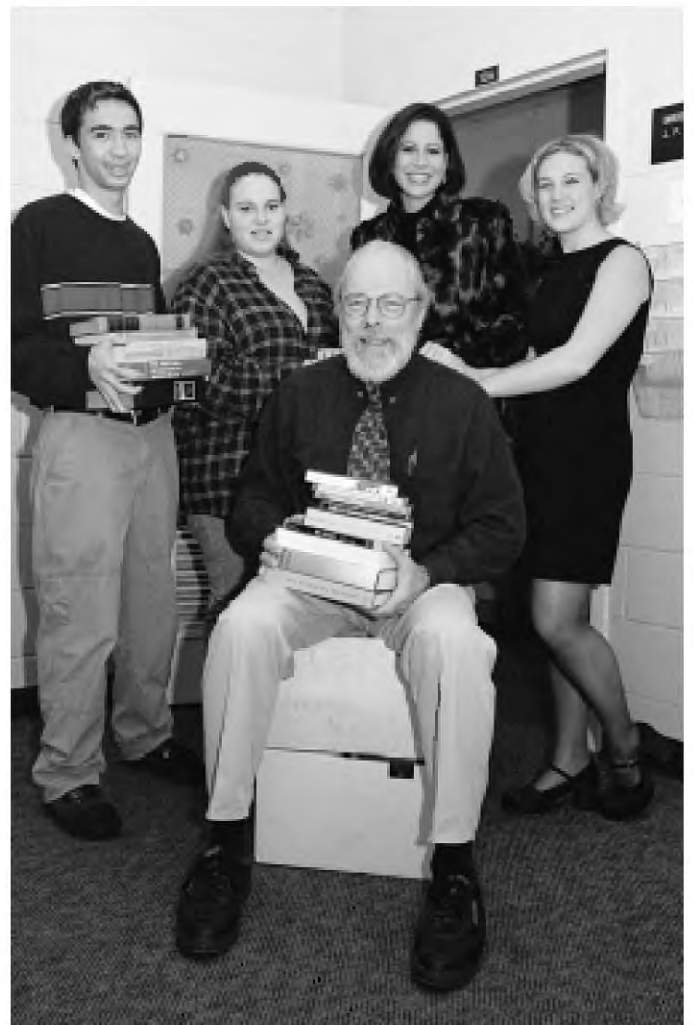
Students who graduate with University Honors

1. receive a certificate upon completion of 18 hours lower-division Honors coursework;
2. have all Honors coursework designated on their transcripts;
3. receive a certificate of graduation from the College of University Honors;
4. wear special academic regalia at graduation;
5. receive a beautiful University Honors College medallion.

Departmental or School Honors Offerings

Honors sections are offered in the following schools or departments:

Accounting	Geography and Geology
Aerospace	History
Art	HPERS
Biology	Human Sciences
Business Education, Marketing Education, and Office Management	Journalism
Chemistry	Management and Marketing
Computer Information Systems	Mathematical Sciences
Computer Science	Music
Criminal Justice	Philosophy
Economics and Finance	Physics and Astronomy
Educational Leadership	Political Science
Elementary and Special Education	Psychology
Engineering Technology and Industrial Studies	Radio-TV/Photography
English	Recording Industry
Foreign Languages and Literatures	Sociology and Anthropology
	Social Work
	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 the new 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 (300H) 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.
- 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 (350H) 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 (460H) 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.
- 4900 (490H) 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 (495H) Honors Independent Research.** Three to nine credits. (Only 3 credit hours may be counted toward the 36-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

E. Ray Phillips, McNair Director
Todd 013

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.

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 (490) 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

Carol Bader, Chair
Peck Hall 217

Alley, Anton, Badley, Brien, Clark, Dawson, Dooley, Fisher, Flanigan, Gray, Harrison, Hatfield, Hensley, Higgs, Hopper, C. Hunt, Lucas, McDaniel, Otto, Otts, Raffo, Ross, Sundeen, Tharp, Williams, Womack

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 freshman applicants who have ACT composite or subscores of 18 or below or who are 21 years of age or older on the first day of classes of their first term are required to take an academic assessment placement test as part of their admissions requirements. Students 21 years of age or older take the entire placement exam unless they elect to present ACT scores posted within three years prior to the first day of the first term of enrollment. Scores older than three years are not valid. Students under 21 whose ACT composite score is 18 or lower must complete a reading comprehension test. Students under 21 whose ACT mathematics subscore is 18 or lower must take the mathematics placement tests. Students under 21 whose ACT English subscore is 18 or lower must complete a writing exam.

**NOTE: Students with composite SAT scores of 890 or below must take the reading assessment exam; students with Verbal SAT scores of 450 or below must write the English portion of the exam for placement in the appropriate writing course; and students with mathematics SAT scores of 450 or below must take the mathematics portions of the exam for correct math placement.*

Transfer students who have not earned college-level algebra-based mathematics or English credits must undergo assessment in the appropriate area(s).

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 which 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 Developmental Studies Program (DSP) English, mathematics, or reading courses. They must complete the appropriate subject area pre-test 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, (2) completing DSP courses indicated by exam placement, or (3) scoring 26 or above on the ACT composite.

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 are awarded 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 or 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 Developmental Studies 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. Students in most basic courses are required to enroll in the tutorial programs offered in these labs, while students in developmental courses are normally enrolled in tutoring at the recommendation of their instructors. 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 Developmental Studies Advisor Office in 102 Peck Hall (615-898-2339) immediately upon arrival on campus to determine the name and office number of the assigned advisor. Students should make an appointment 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 of either **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 (RSE 070) Basic Writing. Three credits. Prerequisite: Placement pretesting. Intensive practice in paragraph and sentence construction; intensive review of basics of spelling, grammar, and punctuation. Enrollment in the Writing Center required.

DSPM 0700 (RSM 070) Basic Mathematics. Three credits. Prerequisite: Placement pretesting. Intensive study of all arithmetic operations with whole numbers, decimals and fractions, percent and equivalency, units of measure, word problems, geometry, graphs, elementary probability, and statistics.

DSPR 0700 (RSR 070) Basic Reading. Three credits. Prerequisite: Placement pretesting. Intensive practice in reading comprehension to improve basic reading skills through classroom instruction and self-paced activities.

Courses in Developmental Studies

DSPW 0800 (DSE 080) 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 construction, and basic language arts.

DSPM 0800 (DSM 080) Elementary Algebra. Three credits. Prerequisite: Placement pretesting. Intensive study of numbers and sets; algebraic expressions; solution of linear equations; rational expressions.

DSPM 0850 (DSM 085) Intermediate Algebra. Three credits. Prerequisite: Placement pretesting. An intensive study of algebraic fractions, first-degree equations and inequalities, exponents, roots and radicals, second-degree equations and inequalities, function, relations, and graphs.

DSPR 0800 (DSR 080) Developmental Reading. Three credits. Prerequisite: Placement pretesting. Intensive practice in reading comprehension to develop inferential and critical reading skills, vocabulary, and an efficient rate of reading.

DSPS 0800 (DSS 080) Learning Strategies. Three credits. Intensive study and practice of effective note-taking, test-taking and study techniques, the use of library resources, and critical thinking.

MATH 0990 (DSM 090) 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 0100 (ACA 010) Academic Recovery. One credit. Intensive study and practice in academic and personal skills that characterize academically successful students. Open only to students who have been readmitted after being academically suspended from the University.

ACA 3000 (ACA 300) 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

Wayne Rollins, Director
Jones Hall 155

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 (293, 294, 397, 398) 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 1010 Seminar

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 1010 Seminar can be taken as an elective and counted toward the 132-semester hour minimum graduation requirement. Undeclared freshmen with 0-24 credit hours will be required to enroll in University 1010 Seminar. 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 Provost/Vice President for Academic Affairs
119 Cope Administration Building
Middle Tennessee State University
Murfreesboro, TN 37132

Courses in University 1010 Seminar [UNIV]

1010 (101) University 1010 Seminar. 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.



Army Reserve Officers' Training Corps (AROTC)

MTSU students can earn a commission as a second lieutenant in the United States Army, Army Reserve (USAR), or Army National Guard (ARNG) while pursuing either undergraduate or graduate studies.

Army ROTC provides multiple paths for students to obtain their commissions. Entry-level military science training during the freshman and sophomore years consists of basic rifle marksmanship, rappelling, leadership development, and orienteering. There is no military service obligation during this phase. Students may use two military science courses in lieu of two PHED requirements. Students with prior military service may receive academic credit for the first two years. Students who have not taken any military science classes by the end of their sophomore year may receive placement credit by attending Camp Challenge conducted each summer at Fort Knox, Kentucky. Pay for summer camp is approximately \$640.

At the beginning of the junior year, students begin Advanced ROTC training built around leadership assessment and practical application of their management and leadership skills. Airborne, Air Assault, and Northern Warfare training are also available to students after completing Advanced Camp at Fort Lewis, Washington, between their junior and senior years. All advanced training students receive a \$250 monthly subsistence allowance. Full-time employment upon graduation is available for those students who are selected for an initial three- or four-year active duty assignment.

Scholarships: Army ROTC offers three- and two-year on-campus scholarships each year to qualified enrolled and non-enrolled military science students. These scholarships pay for registration, books, and lab fees, in addition to the monthly subsistence allowance. Scholarship recipients may be selected for initial active duty assignments or reserve assignments.

Further information concerning AROTC may be obtained by consulting the Military Science Department course offerings in this catalog, listed under the College of Basic and Applied Sciences, or by writing

Army ROTC
Military Science Department
Middle Tennessee State University, P.O. Box 52
Murfreesboro, TN 37132
or calling (615) 898-2470 or tollfree 1-888-MT-AROTC.

Air Force Reserve Officers' Training Corps (AFROTC)

In cooperation with Tennessee State University, MTSU makes available the opportunity for MTSU students to participate in the Air Force ROTC Program. The program is designed to prepare students who desire to serve in the United States Air Force for officer commission. The program provides training and education that will develop skills and attitudes vital to the professional Air Force officer. Students are eligible to compete for scholarships of two-, three-, and three-and-one-half-years duration. All juniors and seniors who are able to maintain a 2.65 GPA or above are awarded a POC Incentive scholarship of \$3,000 per year, \$480 for books, and \$200 per month during the school year.

Students who participate in the Air Force ROTC Program must be enrolled at MTSU. Students are also jointly enrolled at TSU and participate in Air Force ROTC classes and aerospace studies in Nashville on the TSU campus. MTSU will accept some credits in aerospace studies applicable to the degree. For more information, contact the unit admissions officer by writing

AFROTC Detachment 790
Tennessee State University
3500 John A. Merritt Blvd.
Nashville, TN 37209-1561
or calling (615) 963-5931.



Department of Aerospace

Paul A. Craig, Interim Chair
Business and Aerospace Building 211C

Allen, Crowder, Dorris, Ferrara, Gossett, Hill, Jones, McGee, 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.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

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 Studies 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;		AERO 2230 or 2140	3
TRNS 1610	9	AERO 2010	3
English (Area I-A)	6	English (Area II-A)	6
BIOL 1030 (Area IV-A)	4	CHEM 1010, 1011, 1020,	
MATH 1730 (Area IV-B)	4	1021, or PHYS 2010,	
PHED or M S (Area V)	2	2011, 2020, 2021	
History (Area III-A)	6	(Area IV-A)	8
COMM 2200 (Area I-B)	3	PHED or M S (Area V)	2
	34	CSCI 1150 or INFS 2200	
		or 3100 or equivalent	3
		ECON 2410 (Area III-B)	3
		Electives	6
			34

JUNIOR

AERO 3030, 3020;			
TRNS 3630	9	AERO 4110, 4150,	12
Gen. Studies (Area II-B)	3	4100, 4040	
MGMT 3610	3	Aerospace elective	3
Accounting	3	MGMT or MKT elective	3
BMOM 3510 or ENGL 3520	3	Statistics	3
MATH 2020	3	MKT 3820	3
Minor	9	Minor	9
			33

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 Studies 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 2220, 3030, 3170,	
English (Area I-A)	6	3020	12
BIOL 1030 (Area IV-A)	4	English (Area II-A)	6
MATH 1730 (Area IV-B)	4	PHYS 2010, 2011, 2020,	
GEOG 2000 or PSY 1410		2021 (Area IV-A)	8
(Area III-B)	3	History (Area III-A)	6
CSCI 1150 or INFS 2200	3	PHED or M S (Area V)	2
COMM 2200 (Area I-B)	3		34
PHED or M S (Area V)	2		
	34		

JUNIOR

AERO 3210, 3080, 3230,			
4530	10	AERO 4580, 4590, 4040	9
BMOM 3510 or ENGL 3520	3	GEOG 3410 or GEOL 4050	3
MATH 2020	3	Minor and electives	10
MGMT 3610, 4680	6	ECON 4510 or MGMT 4510	3
Minor and electives	6	PSY 2180, 3320	6
Gen. Studies (Area II-B)	3		31
PHIL 2110	3		
	34		

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;

- a minor that complements the major recommended by the faculty advisor and approved by the department chair and dean;
- other specific required courses as listed below.

Recommended Sequence and Curriculum Requirements			
FRESHMAN		SOPHOMORE	
AERO 1010, 1020, 1340	9	AERO 1380, 3030, 3020	9
English (Area I-A)	6	English (Area II-A)	6
BIOL 1030 (Area IV-A)	4	PHYS 2010, 2011, 2020,	
General Studies (Area III-B)	3	2021 (Area IV-A)	8
MATH 1730, 2020 (Area IV-B)	7	History (Area III-A)	6
PHED or M S (Area V)	2	PHED or M S (Area V)	2
ETIS 1310	4	Gen. Studies (Area I-B)	3
	35		34

JUNIOR		SENIOR	
AERO 3392, 3301, 4311, 3322	12	AERO 4310, 3362, 4371, 4040	12
Gen. Studies (Area II-B)	3	AERO 4440 or 4342	3
ET 3600 or 3610	4	MGMT 4510	3
MGMT 3610 or ET 3910	3	Upper-division electives and minor	13
Upper-division minor and electives	9		31
CSCI 1150 or INFS 2200 or 3100 or equivalent	3		
	34		

NOTE: Additional aerospace maintenance courses are required if FAA certification is sought. Substitution of certain aerospace courses may be allowed if FAA certification is not 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

Admission to the Professional Pilot concentration is by separate application to the Aerospace Department. Admission to the University does not guarantee admission to this concentration. Contact the Aerospace Department for requirements prior to March 1 and October 1. Enrollment is limited and selection is made from eligible candidates who are best qualified. Transfer students and persons applying for advanced standing will be evaluated on additional appropriate criteria. Specific policies are available from the department. The candidate must meet the following minimum standards:

- have a college grade point average of 2.50 (or if entering freshman, a high school GPA of 2.80);
- have a current second class FAA medical examination;
- be in good standing within the department and University (if a transfer, candidate cannot be on probation in any form);
- have no physical disability that would prohibit the student from completing the course requirements.

The Professional Pilot concentration requires the completion of

- 48 semester hours in aerospace courses as listed below;
- a minor that complements the Professional Pilot major, recommended by the faculty advisor and approved by the department chair and dean;
- other specific required courses as listed below; and

- Commercial Certificate, instrument, and multi-engine ratings prior to graduation (ratings completed at MTSU).

Retention in the program is based on maintaining a GPA of 2.50 or better and making consistent and satisfactory progress in flight training. Violation of any FAA regulation will result in immediate termination.

Students admitted to the Professional Pilot Program are expected to receive all required flight training beyond the Private Pilot Certificate with the MTSU Flight School. Transfer students who have already completed the instrument rating may be admitted; however, they must complete the Commercial Pilot Certificate plus two additional ratings/certificates at the MTSU Flight School.

Recommended Sequence and Curriculum Requirements			
FRESHMAN		SOPHOMORE	
AERO 1010, 1020, 2010, 3202	10	AERO 2220 or 2230, 3203, 3210, 3215	10
English (Area I-A)	6	English (Area II-A)	6
BIOL 1030 (Area IV-A)	4	PHYS 2010, 2011	4
MATH 1730, 2020 (Area IV-B)	7	History (Area III-A)	6
PHED or M S (Area V)	2	PHED or M S (Area V)	2
COMM 2200 (Area I-B)	3	PSY 1410 (Area III-B)	3
CHEM 1010, 1011 (Area IV-A)	4	Minor	3
	36		34

JUNIOR		SENIOR	
AERO 3204, 3030, 3440, 3020, 4310	13	AERO 3260, 4110 or 4100 4130, 4440, 4040	15
Gen. Studies (Area II-B)	3	Upper-division minor	9
ET 3610	4	Upper-division electives	5
Statistics	3	MGMT 3610	3
Minor	6	BMOM 3510 or ENGL 3520	3
CSCI 1150 or INFS 2200 or equivalent	3		35
	32		

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

- 36 semester hours of aerospace courses as listed below;
- minors in Mathematics and Engineering Technology and Industrial Studies;
- two semesters of general chemistry and two semesters of calculus-based physics;
- other specific required courses as listed below.

Recommended Sequence and Curriculum Requirements			
FRESHMAN		SOPHOMORE	
AERO 1010, 1020, and 2010 or 2220	9	AERO 3030, 3020	6
English (Area I-A)	6	English (Area II-A)	6
BIOL 1030 (Area IV-A)	4	CHEM 1120, 1121 (Area IV-A)	4
MATH 1730, 1910 (Area IV-B)	8	MATH 1920, 3110 (Area IV-B)	8
CHEM 1110, 1111 (Area IV-A)	4	History (Area III-A)	6
ET 2310	4	PHYS 2110, 2111 (Area IV-A)	4
	35	PHED or MS (Area V)	2
			36

JUNIOR		SENIOR	
AERO 3440, 4310	6	AERO 2140 or 4071 or 4160	3
MATH 3120, 2010	6	AERO 4110 or 4150 or 4100	3
ET 3600, 3810, 3830	10	AERO 4440, 4170, 4040	9
PHYS 2120, 2121 (Area IV-A)	4	CSCI 1150	3
PHED or M S (Area V)	2	ECON 2410 (Area III-B)	3
Gen. Studies (Area II-B)	3	ET 3840, 3860, 4850	9
COMM 2200 (Area I-B)	3		30
	34		

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.

Professional Pilot Advanced Standing

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.

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. CTI participation is open to all MTSU students regardless of their academic majors.

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	Flight Instruction II - Instrument
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 Management
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 89.

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 (101) 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 (102) 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 (103) 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 (104) 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 (108) Aerospace Maintenance Shop Practices.** Three credits. Use of common tools, measuring devices, and special aircraft tools. Shop layout for aircraft maintenance management.
- 2010 (201) Aviation Weather.** Three credits. Atmosphere, measurement of meteorological elements, and effects of these on air operations.
- 2140 (204) 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 (200A) 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 (202) Navigation.** Three credits. The principles of pilotage, dead reckoning, and radio/electronic methods of navigation as applied to cross-country flight planning.
- 2230 (203) Flight Instruction I.** Three credits. Aeronautical subject matter pertaining to the Private Pilot Certificate.
- 2331 (213) Airframe Inspection.** Three credits. Requirements, techniques, and procedures.
- 2342 (214) Powerplant Inspection.** Three credits. Requirements, techniques, and procedures.
- 2371 (217) Aircraft Welding.** Three credits. Various types of aircraft welding techniques and procedures.
- 2381 (218) Non-Metallic Structures: Dope, Fabric, and Finishing.** Three credits. Aircraft fabric covering and finishing.
- 2930 (293) Cooperative Education.** Three credits. Provides students with opportunities for on-the-job experiences related to academic major. Consult department. Pass/Fail.
- 2940 (294) Cooperative Education.** Three credits. Provides students with opportunities for on-the-job experiences related to academic major. Consult department. Pass/Fail.
- 3020 (320) 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 (303) 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 (315) Women in Aviation.** Three credits. Explores the many roles of women in this non-traditional field. Research on the history of women in aviation and their political and social impact on aviation, industry, and the country.
- 3080 (328) Aviation Weather II.** Three credits. Prerequisite: AERO 2010. Advanced weather concepts, forecasting, and applications to flight dispatch problems. Preparation for NWS observers license.
- 3100 (330) 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 (307) Flight Safety.** Three credits. Prerequisite: AERO 1020. Safety rules and regulations and aircraft accident investigation.
- 3202 (300A) Instrument Flight Laboratory I.** 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 (300B) Instrument Flight Laboratory II.** One credit. Prerequisites: Private Pilot Certificate, AERO 3202 or equivalent, and have completed AERO 3210 or be taking it simultaneously. 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 (300C) Commercial Flight Laboratory.** One credit. Prerequisites: Private Pilot Certificate, Instrument Rating-Airplane, single engine land, AERO 2010, 2220, 3030 or equivalent for each, and have completed AERO 3215 or be taking it simultaneously. 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 (300D) 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.
- 3207 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.
- 3208 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.
- 3209 Flight Instructor - Multi-engine 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 - Multi-engine Certificate. Covers all topics of the Flight Instructor - Multiengine Practical Test Standards. Flight fees required. NOTE: This is not an FAA Part 141 course.
- 3210 (301A) Flight Instruction II - Instrument.** Three credits. Prerequisite: Private Pilot Certificate. Flight instruction and academics required for the instrument airplane rating.
- 3215 (301B) Flight Instruction II - Commercial.** Three credits. Prerequisite: Private Pilot Certificate. Flight instruction and academics required for the Commercial Pilot Certificate.
- 3220 (302) Flight Instruction III.** 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.
- 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 (322) 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 (332) 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 (324) 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 (305) Flight Simulator.** Three credits. Instruction in the use of the flight simulator and development of proficiency to fly under instrument conditions.
- 3260 (306) Multi-Engine Rating.** Three credits. Prerequisite: Commercial Pilot/Instrument Rating. Flight and ground instruction pertaining to the multi-engine rating. Students should consult chief flight instructor for a scheduled flight slot. The multi-engine rating must be completed during the course. Fee required.
- 3301 (310) Sheet Metal Structures.** Three credits. Provides practical experience in the repair of sheet metal structures, including major repairs and alterations.
- 3322 (312) 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 (416) Advanced Aerospace Engine Systems Maintenance and Repair.** Three credits. The operation of powerplant component systems; induction, exhaust, instrumentation, engine electrical and propeller systems.
- 3371 (317) 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 (309) 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 (314) 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 (397) Cooperative Education.** Three credits. Provides students with opportunities for on-the-job experiences related to academic major. Consult department. Pass/Fail.
- 3980 (398) Cooperative Education.** Three credits. Provides students with opportunities for on-the-job experiences related to academic major. Consult department. Pass/Fail.
- 4040 (440) 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 (405) 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 (406) 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 (407) 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 (423) Airline Management.** Three credits. Airline operation and implementation of sound management practice.
- 4110 (411) Airport Management.** Three credits. Airport operations and development of airport master plan.
- 4130 (413) 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 (415) Fixed Base Operations Management.** Three credits. The FBO operator and the essential role played in general aviation.
- 4160 (465) Aviation Law.** Three credits. Legal responsibility in the aviation industry.
- 4170 (437) Airport Planning and Design.** Three credits. Methods utilized; the relationship of the airport and the community.
- 4220 (402) Flight Instruction VI.** Three credits. Prerequisite: Certified Flight Instructor Certificate. Ground and flight instruction leading to the instrument and multi-engine 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 (433) Advanced Air Navigation.** Three credits. Advanced navigation equipment and operation procedures, GPS, and LORAN.
- 4240 (422) Aircraft Systems Management.** Three credits. Instruction and requirements pertaining to the activities of a flight engineer.
- 4301 (420) Advanced Aerospace Vehicle Structural Repair.** Three credits. Non-typical structures including bonded and plastic structures. Includes planning and organizing of major structural repair projects and rebuilding of severely-damaged aircraft.
- 4310 (401) 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 (311) Aerospace Accessory Systems Maintenance and Repair.** Three credits. A laboratory course providing experience in the maintenance, inspection, and repair of aircraft system components.
- 4312 (421) Turbine Engine System.** Three credits. Advanced course in the maintenance of complex systems.
- 4332 (313) Reciprocating Engine Troubleshooting.** Three credits. A laboratory course providing practical experience in inspecting and troubleshooting problems with reciprocating engines and powerplant systems.
- 4342 (424) 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 (417) 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 (418) 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 (419) 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 (450) 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 (414) 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 (409) Aerospace Science for Teachers.** Three credits. An introduction to the total aviation and space effort.
- 4530 (403) 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 (466) 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 (408) 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 (428) Flight Dispatch.** Three credits. Prerequisite: AERO 4580. A capstone to those seeking flight dispatch as a career. This course should be the last one in the student's program.
- 4730 (430H) 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 (111) Introduction to Transportation.** Three credits. Transportation development, identification, and evaluation of the elements of the transportation system including historical, legislative, and trend analysis.
- 2620 (222) 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 (333) 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.

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.

Honors College

The Department of Aerospace offers periodically 1020, 4071, and 4730.



School of Agribusiness and Agriscience

Harley Foutch, Director
Stark Agribusiness and Agriscience Center 100

**Anderson, Brzezicki, Downs, Halterlein, Johnston, Mehlhorn, Redd,
Ricketts, Whitaker, Williams**

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, Physics and Astronomy, and Engineering Technology and Industrial Studies. A complete description of this program is found under the Department of Engineering Technology and Industrial Studies.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

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
English (Area I-A)	6	English (Area II-A)	6
BIOL 1030 (Area IV-A)	4	COMM 2200 (Area I-B)	3
Mathematics (Area IV-B)	3	PSCI 1030 (Area IV-A)	4
Gen. Studies (Area II-B)	3	History (Area III-A)	6
Electives	6	ECON 2410 (Area III-B)	3
PHED (Area V)	2	Elective	3
	31	PHED (Area V)	2
			33
JUNIOR		SENIOR	
ABAS 3130, 3010	6	ABAS 4100, 4190	6
CSCI 1150 or INFS 2200	3	Minor requirements	9
Animal Science elective	3	Agribusiness electives*	6
Minor requirements	9	Upper-division electives	14
Agribusiness electives*	6		35
Upper-division elective	3		
Plant and Soil Science elec.	3		
	33		

**Internship courses may not be used to fulfill this requirement.*

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

FRESHMAN		SOPHOMORE	
ABAS 1000, 1410, 1610	7	ABAS 2210	3
English (Area I-A)	6	COMM 2200 (Area I-B)	3
BIOL 1110, 1120 (Area IV-A)	8	English (Area II-A)	6
Gen. Studies (Area II-B)	3	CHEM 1010, 1011, 1020, 1021 (Area IV-A)	8
Mathematics (Area IV-B)	3	History (Area III-A)	6
PHED (Area V)	2	Gen. Studies (Area III-B)	3
Agribusiness or Animal Science elective	3	PHED (Area V)	2
	32		31
JUNIOR		SENIOR	
ABAS 3130, 3340 or 4310	6	ABAS 4100, 4410, 4510	9
ABAS 3420, 3440	6	Animal Science electives*	6
CSCI 1150 or INFS 2200	3	Minor requirements	9
Minor requirements	9	Upper-division electives	7
Upper-division electives	11	ABAS 3010	3
	35		34

**Electives must come from the following courses: ABAS 3430, 3470, 3480, 3490, 3500, 3540, 4090, 4470, 4520*

Concentration: Horse Science

Advisor: Jerry W. Williams

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

FRESHMAN		SOPHOMORE	
ABAS 1000, 1410, 1610	7	ABAS 3410	3
ABAS 2400	3	COMM 2200 (Area I-B)	3
Gen. Studies (Area II-B)	3	English (Area II-A)	6
English (Area I-A)	6	CHEM 1010, 1011, 1020, 1021 (Area IV-A)	8
BIOL 1110, 1120 (Area IV-A)	8	History (Area III-A)	6
Mathematics (Area IV-B)	3	Gen. Studies (Area III-B)	3
PHED (Area V)	2	Upper-division elective*	3
	32	PHED (Area V)	2
			34
JUNIOR		SENIOR	
ABAS 2210, 3040, 3130	9	ABAS 3010, 4090, 4100	9
ABAS 3340, 3440	6	ABAS 4460	3
CSCI 1150 or INFS 2200	3	Minor requirements	6
Minor requirements	12	Agribusiness elective	3
Upper-division elective**	3	Upper-division electives	12
	33		33

*ABAS 3400 recommended

**ABAS 4400 recommended

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

FRESHMAN		SOPHOMORE	
ABAS 1000, 1410, 1610	7	ABAS 2210	3
English (Area I-A)	6	English (Area II-A)	6
BIOL 1110, 1120 (Area IV-A)	8	CHEM 1010, 1011, 1020, 1021 (Area IV-A)	8
Mathematics (Area IV-B)	3	History (Area III-A)	6
Gen. Studies (Area II-B)	3	Gen. Studies (Area III-B)	3
Agribusiness elective	3	COMM 2200 (Area I-B)	3
PHED or M S (Area V)	2	PHED (Area V)	2
	32		31
JUNIOR		SENIOR	
ABAS 3130, 3340	6	ABAS 3010, 4100	6
Plant and Soil Science electives*	6	Plant and Soil Science electives*	12
CSCI 1150 or INFS 2200	3	Minor requirements	9
Minor requirements	9	Upper-division electives	6
Upper-division electives	12		33
	36		

*Internship courses may not be used to fulfill this requirement.

Concentration: Agricultural Communication

Advisor: Tony Johnston

This concentration is available under all three departmental majors. A minor in Mass Communication is required. The program is designed to meet the needs of students who are interested in specializing in the communications phase of agriculture. Freshman and sophomore requirements are listed with each major.

JUNIOR		SENIOR	
Gen. Studies (Area II-B)	3	P R 3040; JOUR/RATV 4250	6
ABAS 3130, 3340	6	Mass Comm minor	12
ABAS 3010	3	Animal Science electives	3
Mass Comm minor	6	ABAS 4100	3
ABAS electives	15	Upper-division electives	8
	33		32

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.

Certification in Agricultural Education

Advisor: Cliff Ricketts

Students seeking certification to teach agricultural education in secondary schools (grades 7-12) must complete (1) one of the three school majors, (2) a minor in professional education, (3) professional agricultural education courses, and (4) courses in addition to the general education program. Specific course requirements are

FRESHMAN		SOPHOMORE	
ABAS 1000, 1410, 1610, 2130	10	ABAS 2230, 3440	6
English (Area I-A)	6	English (Area II-A)	6
BIOL 1110, 1120 (Area IV-A)*	8	FOED 2110	3
Mathematics (Area IV-B)	3	CHEM 1010, 1011, 1020, 1021 (Area IV-A)***	3
Gen. Studies (Area II-B)	3	History (Area III-A)	3
Gen. Studies (Area III-B)**	3	FOED 1110	3
PHED (Area V)	2	PHED (Area V)	2
	35		34
JUNIOR		SENIOR	
ABAS 3130, 3340	6	ABAS 4100, 4210, 4250	9
CSCI 1150 or INFS 2200	3	Major requirements	6
ABAS 3600, 4220, 4230	9	SPSE 3220	3
ABAS 2210	3	YOED 4000	3
SPED 3010	3	YOED 4110	12
YOED 3050	3	COMM 2200 (Area I-B)	3
Major requirements	9		36
	36		

*Agribusiness majors may take BIOL 1030.

** Agribusiness majors must take ECON 2410.

***Agribusiness majors may take PSCI 1030.

For certification to teach agriscience, the following additional courses should be taken: BIOL 4240 (4 hrs. credit), PHYS 2010 (1 hr.), 2011 (3 hrs.), 2020 (3 hrs.), 2021 (1 hr.).

Pre-Agricultural Engineering

Advisor: Tony Johnston

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 (Area I-A)	6	MATH 3110, 3120	7
CHEM 1110, 1111, 1120, 1121	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
		COMM 2200	3
	33		32

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

Advisor: Warren Anderson

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 (Area IV-A)	8	CHEM 1010, 1011, 1020, 1021 (Area IV-A)	8
English (Area I-A)	6	GEOL 1040	4
ABAS 1610	3	ECON 2410, 2420	6
ABAS 3630	3	English (Area II-A)	6
MATH 1710, 1720*	6	MATH 1530**	3
PHYS 1300	3	ABAS 3340	3
COMM 2200 (Area I-B)	3	CSCI 1150	3
	32		33

*Students may substitute MATH 1730 and 1910 for 1710 and 1720.

**Students may substitute STAT 3150 for MATH 1530.

Pre-Veterinary Medicine

Advisor: Kevin Downs

Students completing this program frequently pursue studies at the College of Veterinary Medicine, University of Tennessee, Knoxville, where they may earn a Doctor of Veterinary Medicine (D.V.M.); graduate studies leading to a Master of Science (M.S.) or Doctor of Philosophy (Ph.D.) are also available at the University of Tennessee. Students who are continuing their studies in veterinary medicine at other universities should follow the appropriate catalogs in fulfilling their requirements.

A minimum of 72 semester hours of college work must be completed before admission to the professional curriculum of the College of Veterinary Medicine at the University of Tennessee. The following curriculum will enable a student to continue in a standard veterinary curriculum to complete work for a degree in veterinary medicine:

English composition	6
CHEM 1110, 1111, 1120, 1121	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
	68-74

*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. Students may also earn an MTSU B.S. degree under the program outlined on page 56 (Bachelor of Science requirements, No. 4) whereby a student who completes six semesters at MTSU is admitted to and successfully completes one year in a professional program.

Courses in Agribusiness and Agriscience [ABAS]

Agribusiness

2130 (213) Introduction to Agribusiness. Three credits. Nature, scope, importance, and relationship to the general economy.

3130 (313) Principles of Agricultural Economics. Three credits. Applying the principles of economics to agricultural problems.

3490 (349) Poultry Production and Marketing. Three credits. (Also listed under Animal Science.) Prerequisite: PSCI 1030 or CHEM 1010, 1011, 1020, 1021. 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 (381) 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 (413) 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 (414) Economics of Agribusiness Management.** Three credits. Prerequisite: ABAS 3130 or approval of instructor. Application of economic concepts to agribusiness firms.
- 4150 (415) 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 (416) Agricultural Cooperatives.** Three credits. Prerequisite: ABAS 3130. Role of agricultural cooperatives in collective bargaining for farmers; historical development, economic organization, and structural aspects.
- 4180 (418) 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 (419) International Agriculture.** Three credits. Prerequisite: ABAS 3130. The effect of international trade on the U.S. agricultural industry.
- 4200 (420) 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 (481) 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 (482) 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 (483) 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 (141) 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 (211) 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 (240) 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 (304) 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 (340) 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 (341) Light Horse Breeds.** Three credits. Historical development of the horse and the establishment of the individual light horse breeds.
- 3420 (342) Genetics of Domestic Livestock.** Three credits. Includes an introduction to the 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 (343) 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 (344) 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 (345) Anatomy and Physiology of Domestic Animals.** Three credits. The parts, functions, and anatomical relationships of various organs and systems of domestic animals.
- 3460 (346) 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 (347) Beef Cattle Production.** Three credits. 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 (348) Swine Production.** Three credits. 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 (349) Poultry Production and Marketing.** Three credits. (Also listed under Agribusiness.) Prerequisite: PSCI 1030 or CHEM 1010, 1011, 1020, 1021. 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 (350) Sheep Production.** Three credits. Genetics, nutrition, reproduction, and management practices essential for profitable sheep production.
- 3540 (354) Dairy Production.** Three credits. Feeding and management, ruminant digestion, physiology of milk secretion, production testing and official records, sanitary regulations, handling and marketing of raw milk.
- 3810 (381) 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 (390) Horses and Horsemanship.** Three credits. Applications of basic requirements in owning, caring for, and using the pleasure horse as a personal riding mount.
- 4090 (409) 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 (426) 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 (440) 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 (441) Animal Nutrition and Feeding.** Three credits. Gastrointestinal tract, process of digestion, and nutrient utilization. Application of principles of animal nutrition to formulation of supplements and complete rations for livestock.
- 4420 (442) Advanced Livestock Management.** Three credits. Prerequisite: ABAS 3440 or approval of instructor. The opportunity to become proficient in managerial practices vital to efficient, economical livestock production. Unique in that students gain needed experiences, enabling them to proceed to livestock managerial positions. One-hour lecture and two two-hour laboratories.
- 4430 (443) 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 (445) 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-hours lecture and one two-hour laboratory.
- 4460 (446) 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 (447) 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 (448) 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 (449) Livestock Evaluation.** Three credits. 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 (451) Domestic Animal Reproductive Physiology.** Three credits. 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 (452) 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 (458) 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 (459) 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 (486) Meat Science and Technology.** Three credits. Prerequisite: Approval of instructor. 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 (498) Seminar in Horse Science. Three credits. Familiarizes horse science majors with important current scientific investigation.

Plant and Soil Science

1610 (161) Elements of Plant Science. Three credits. Fundamental plant processes; plant tissues, structures, environment, growth, development, reproduction, and propagation.

3330 (333) Field Crop Production. Three credits. Economic importance, adaptation, origin, and history; botanical characteristics; cultural methods, uses, breeding, and pests of field crops.

3340 (334) Soil. Three credits. Physical, chemical, and biological properties. REQUIRED FOR ENVIRONMENTAL SCIENCE MAJORS.

3350 (335) Soil Fertility and Fertilizer. Three credits. Prerequisite: ABAS 3340. Use of fertilizer and liming materials in soil-plant relationships. Lecture/lab.

3370 (337) Soil Analysis. Three credits. Prerequisite: ABAS 3340. Analysis of soils in laboratory. REQUIRED FOR ENVIRONMENTAL SCIENCE MAJORS. Lecture/lab.

3630 (363) Forestry. Three credits. Culture, conservation, management, and utilization of forest stands.

3640 (364) 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 (366) Vegetable Gardening. Three credits. Principles of home and commercial vegetable production; adaptation, culture, fertility, diseases, and insects of vegetables.

3700 (370) 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 (420) 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 (430) 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 (431) Forage Crops. Three credits. Adaptation, distribution, establishment, management, culture, and utilization of forage legumes and grasses.

4330 (433) Turf Management. Three credits. Prerequisite: ABAS 1610 or BIOL 1120. Establishment and management of turf grasses for lawns, golf courses, and parks.

4340 (434) Soil Formation. Three credits. Prerequisite: ABAS 3340. Environmental factors affecting soil formation and utilization.

4350 (435) 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 (437) Soil and Water Conservation. Three credits. Principles and practices of soil and water conservation in rural and urban environments. Lecture/lab.

4380 (438) Interior Landscaping. Three credits. Principles and practices of designing, installing, and maintaining landscapes in malls, public buildings, and other indoor environments.

4390 (439) 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 (461) 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 (462) 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 (464) 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.

4650 (465) Plant Breeding. Three credits. Prerequisite: ABAS 1610 or BIOL 2120. Application of genetics to theory and breeding practices for improvement of agronomic and ornamental plants.

4660 (466) 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 (467) 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 (468) 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 (469) Japanese Landscaping. Three credits. The elements of Japanese garden design.

Agricultural Education

- 2230 (223) 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 (421) 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 (422) Methods of Teaching Agricultural Mechanics.** Three credits. Emphasis on performing shop skills such as welding, brazing, wiring, etc.
- 4230 (423) 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 (424) 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 (424A) Production Agriculture**
4242 (424B) Ornamental Horticulture
4243 (424C) Agricultural Mechanics
4244 (424D) Farm Energy Alternatives
4245 (424E) Problems of New and Established Teachers

Agribusiness and Agriscience General

- 1000 (100) Orientation in Agriculture.** One credit. Job opportunities in agriculture, departmental facilities, extracurricular activities at MTSU associated with specific phases of agriculture. Pass/Fail.
- 2210 (221) 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 (301) Agri-Media Skills.** Three credits. Applications of oral and written skills in communicating about agricultural research, shows, and sales.
- 3600 (360) 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. NO CREDIT GIVEN TOWARD A MAJOR IN THE SCHOOL OF AGRIBUSINESS AND AGRISCIENCE.
- 4100 (410) Microcomputer Applications in Agriculture.** Three credits. Prerequisite: CSCI 1150 or INFS 2200. Includes use of agricultural software, agricultural communications networks, computer dairy feeding systems, and farm records.
- 4250 (425) 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 (470) 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 (491) 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 (499) 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

George Murphy, Chair
Davis Science Building 128

Bailey, Barlow, Blum, Butler, Clark, Doyle, DuBois, Elrod-Erickson, Ervin, Farone, Hemmerly, Howard, Jetton, Johnson, Kelly, Klukowski, Leblond, Mathis, McGhee, Miller, Mullen, Newsome, Reyes, Rosing, Rutledge, Seipelt, Smith-Walters, Stewart, Swain, Walck, Walters, Wells, 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, Microbiology, 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, Physics and Astronomy, and Engineering Technology and Industrial Studies. A complete description of the program is found under the Department of Engineering Technology and Industrial Studies.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

Major in Biology

The major in Biology requires 40 semester hours including a biology core for all concentrations of 24 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. 6 hours of college mathematics or one calculus course or advisor-approved substitution;
2. 12 hours of chemistry (1110, 1111, 1120, 1121, and 2030 or 3010);
3. CSCI 1000 or equivalent.

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, 4130, 4140, 4180

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 or 4520;
3. BIOL 3040 or 3050 or 4130 or 4140.

Concentration: Microbiology

Minimum of 10 hours selected from
 BIOL 3050, 3210, 4080, 4300, 4430, 4440, 4450, 4510

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, 1120	8	BIOL 2120, 2230	8
Chemistry (Area IV-A)	8	English (Area II-A)	6
English (Area I-A)	6	History (Area III-A)	6
Mathematics (Area IV-B)	6	Gen. Studies (Areas I-B, II-B, and III-B)	9
PHED or M S (Area V)	2	PHED or M S (Area V)	2
CSCI 1000 or equivalent	1	CHEM 2030 or 3010	4
	31	Elective	3
			38



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 professional education, and (3) courses in addition to the general education program.

Enhanced General Education Requirements

The following courses are required in addition to the General Studies requirements (see pages 59-61).

MATH 1710 College Algebra, 3 hours

MATH 1720 Plane Trigonometry, 3 hours

General Science Core:

BIOL 1110, 1120 General Biology, 8 hours

CHEM 1110, 1111, 1120, 1121 General Chemistry, 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

Professional Education Requirements

Students must contact their minor advisor in professional education for approval of appropriate courses. (For specific procedures and additional requirements for teacher licensure, see page 184.)

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:

- 19 semester hours in biology including one year of freshman biology or equivalent and BIOL 2120 and 2160.
- 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 Studies 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 Studies 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 (100) 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, 1120 (111, 112) General Biology. Four credits. Primarily for Biology majors and minors and other science-oriented students. Fundamental concepts of organisms as exemplified by different groups of animals and plants. BIOL 1110 is primarily zoology and BIOL 1120 is primarily botany. It is recommended that BIOL 1110 precede BIOL 1120. Three lectures and one three-hour laboratory.

2000 (201) 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 (313, 314) 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 (308) 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 (212) 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 (216) 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 (300) 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 (301) 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 (302) 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 (303) 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 (304) Entomology.** Three credits. Prerequisites: BIOL 1110, 1120. Structure, classification, evolution, importance, and life history of insects. Five hours of lecture and laboratory.
- 3050 (305) 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 (307) Biology Seminar on Environmental Problems.** Three credits. Causes, effects, and solutions of environmental problems. Three lectures.
- 3100 (310) 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 (316) 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 (320) Internship in Biology.** Two to four credits. Prerequisite: Permission of department. Practical experience for students in a professional setting.
- 3210 (321) 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 (322) 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 (323) 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 (324) Introduction to Evolution.** Three credits. Prerequisites: BIOL 1110 and 1120 or 1030. Scientific principles and concepts 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 (334) 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 (406) 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 (407) 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 (408) 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 (411) General Physiology.** Four credits. Prerequisites: BIOL 1110, 1120, 2120; CHEM 1110, 1120. Physiochemical properties and functions of life processes in animals using a comparative approach. Three lectures and one three-hour laboratory.
- 4120 (412) 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 (413) 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 (414) Invertebrate Zoology.** Four credits. Prerequisites: BIOL 1110, 1120. Structure, functions, life histories, and economic importance of the invertebrate phyla. Laboratory work comprises detailed studies of representative specimens. Three lectures and one three-hour laboratory.
- 4150 (415A) 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 (417) Endocrinology.** Three credits. Prerequisites: BIOL 1110, 1120, 2120; CHEM 1110, 1120. Strongly recommend BIOL 2010 and 2020 or 4110 (or equivalent). Where and how hormones are produced and how they coordinate and control bodily functions, focusing on humans and other vertebrates. Three lectures.
- 4180 (418) 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 (421) 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 (422) Ichthyology.** Four credits. Prerequisites: BIOL 1110, 1120. The morphology, physiology, taxonomy, and ecology of fishes. Three lectures and one three-hour laboratory.

- 4240 (424) 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 (425) 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 (426) 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 (427) 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 (428) Undergraduate Research in Biology.** Three credits. Prerequisite: Permission of department. Selection, design, and conduction of projects.
- 4290 (429) 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 (430) Immunology.** Four credits. Prerequisite: BIOL 2230. Humoral and cellular mechanisms of immunity. Two lectures and one two-hour laboratory.
- 4320 (432) 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 (433A) Cedar Glade**
4332 (433B) Biome Analysis
4333 (433C) Desert
- 4350 (435) Biometry.** Four credits. Prerequisites: BIOL 1110, 1120, 2120. Statistical methods utilized in biological research. Three lectures and one two-hour laboratory.
- 4360 (436) 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 (439) 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 (440) 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 (443) 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 (444) 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 (445) 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 (446) Human Genetics.** Three credits. Prerequisite: BIOL 2120. Application of the fundamental laws of inheritance to humans. Two lectures and one two-hour laboratory.
- 4500 (450) 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 (451) 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 (452) 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 (454A-Z) 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 (455) 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 (456) 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 (457) 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 (458) 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 (459) 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 (470) 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.

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.

Graduate Study

The Master of Science and Master of Science in Teaching degrees are offered in Biology. Requirements for these degrees and a list of the courses offered for graduate credit are published in the Graduate Catalog.

Honors College

The Department of Biology offers the following courses in Honors:

BIOL	1030 (100H)	(Fall/Spring Semester)
BIOL	1110 (111H)	(Fall/Spring Semester)
BIOL	1120 (112H)	(Spring Semester)
BIOL	2120 (212H)	(Fall Semester)
BIOL	2230 (216H)	(Spring Semester)
BIOL	3160 (316H)	(Spring Semester of even-numbered years)



Department of Chemistry

Earl F. Pearson, Chair
Davis Science Building 239

Bonicamp, Burden, Chong, Clark, Devendorf, DiVincenzo, Dunlap, Friedli, Howard, Ilesley, Iriarte-Gross, Kline, Lee, MacDougall, Melton, Ooi, D. Patterson, P. Patterson, Phelps, 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 (optometry), 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, Engineering Technology and Industrial Studies, and Physics and Astronomy. 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.

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.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

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, 1111, 1120, 1121, 2230, 3010, 3020, 4400, 4350, 4360, 4230, 3530 or 4500, 4410 and 4430 plus at least 4 hours (including one hour of lab) 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) and computer science approved by advisor. 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, 1111,		CHEM 2230, 3010, 3020	13
1120, 1121	8	PHYS 2010, 2011, 2020,	
MATH 1730, 1910	8	2021 (or 2110, 2111,	
BIOL 1110, 1120 (Area IV-A)	8	2120, 2121)	8
ENGL 1010, 1020 (Area I-A)	6	MATH 1920	4
PHED or M S (Area V)	2	ENGL 2030 (Area II-A)	3
	32	CSCI 1150	3
		PHED or M S (Area V)	2
			33
JUNIOR		SENIOR	
CHEM 3180, 4400, 4350,		CHEM 4230	4
4360, 4410	16	CHEM 4100, 4500,	
ENGL 2--- (Area II-A)	3	4700/4780, 4730, or 4880	8
HIST 2010, 2020, or 2030		Gen. Studies (Area III-B)	3
(Area III-A)	6	Electives	17
MATH 3110 or PHYS 3150	4		32
Gen. Studies electives			
(Areas I-B, II-B)	6		
	35		

Major in Chemistry

The Chemistry major consists of 36 semester hours in chemistry including CHEM 1110, 1111, 1120, 1121, 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; CSCI 1150; and fulfillment of University General Studies 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.

Recommended Sequence**FRESHMAN**

CHEM 1110, 1111, 1120, 1121	8	SOPHOMORE	
MATH 1730*, 1910	8	CHEM 2230	5
BIOL 1110, 1120 (Area IV-A)	8	CHEM 3010, 3020	8
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
PHED or M S (Area V)	2	HIST 2010, 2020, or 2030 (Area III-A)	6
	32	CSCI 1150	3
		PHED or M S (Area V)	2
		Gen. Studies (Area I-B)	3
			33

JUNIOR

Chemistry electives**	7-8	SENIOR	
PHYS 2010, 2011, 2020, 2021	8	CHEM 4330, 4340	8
Gen. Studies (Areas II-B and III-B)	6	Electives	24-25
Electives	12		32-33
	33-34		

*Can substitute MATH 1710, 1720

**Upper-division chemistry elective from the following: CHEM 3530 or 4500, 4400, 4100, 4700/4780, 4600, 4610, 4630 or 4230 or 4000

Minor in Chemistry

The minor in Chemistry consists of 19 semester hours of chemistry, including CHEM 1110, 1111, 1120, and 1121 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 professional education, and (3) courses in addition to the General Studies requirements.

Enhanced General Education Requirements

In addition to the General Studies requirements (see pages 59-61), the following courses are required for licensure in chemistry:

MATH 1910 Calculus I
CSCI 1150 Computer Orientation
BIOL 1110, 1120 General Biology
CHEM 1110, 1111, 1120, 1121 General Chemistry
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
ASTR 1030 Exploring the Universe (or ASTR 3400)
GEOL 1040 Physical Geology

Professional Education Requirements

Students must contact their minor advisor in professional education for approval of appropriate courses. (For specific procedures and additional requirements for teacher licensure, see page 184.)

Major Requirements

Students who want to teach secondary chemistry must complete the Chemistry major in the following manner:

CHEM 1110, 1111, 1120, 1121 General Chemistry
CHEM 2230 Quantitative Analysis
CHEM 3010, 3020 Organic Chemistry
CHEM 4330 Physical Chemical Fundamentals OR
CHEM 4350 Physical Chemistry
CHEM 4340 Physical Chemistry Fundamentals OR
CHEM 4360 Physical Chemistry
Upper-division chemistry elective to total 36 hours of chemistry.

Teacher Licensure in Interdisciplinary Studies (K-8)

Students may become licensed to teach in K-8 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.

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. Only one minor is required with the General Science concentration.

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 two 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. Other programs listed under health science are designed for transfer only and do not lead to a degree from MTSU.

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 and 1011 before taking CHEM 1110 and 1111.

Mathematics—Mathematics is not required for entrance into medical school, dental school, pharmacy school, or physical therapy 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.

Physics—Students with a weak background in physics should take PHYS 1300 prior to taking PHYS 2010.

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 office of 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.

Three-and-One Programs

The following are programs that lead to an MTSU degree: pre-cytotechnology, pre-dental, pre-medical, pre-medical technology, pre-pharmacy, pre-physical therapy, pre-nuclear medicine technology, and pre-radiation therapy technology.

Since acceptance into dental or medical school after three years is highly competitive, most students complete the specified pre-dental or pre-medical 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 99 hours.
2. Apply to, be accepted in, and successfully complete either one year (33 hours) in the professional school or one year of an approved clinical or laboratory school (for which 33 hours will be granted).
3. Each program will require a minimum of 35 hours of science (biology, chemistry, physics).
4. Twenty-four (24) 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 24 upper-division hours.

5. The last 30 semester hours 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.

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 56 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, 1111, 1120, 1121	8	CHEM 3010, 3020	8
BIOL 1110, 1120	8	ENGL 2030, 2--- (Area II-A)	6
ENGL 1010, 1020 (Area I-A)	6	HIST 2010, 2020 (Area III-A)	6
MATH 1710, 1720*	4 or 6	BIOL 3020, 4130	8
PHED or M S (Area V)	2	PHED or M S (Area V)	2
Gen. Studies (Areas I-B, III-B)	6	Gen. Studies (Area II-B)	3
		Electives	3
	34-36		36
JUNIOR			
CHEM 2230	5		
CHEM 3530	4		
PHYS 2010, 2011, 2020, 2021	8		
CSCI 1150	3		
Electives	16		
	36		

*Good math students should take MATH 1730 and 1910 and delay General Studies electives until later semesters; students with a weak background in physics should take PHYS 1300 prior to taking PHYS 2010.

**Additional courses elected must satisfy the requirements for 48 upper-division hours (24 for the three-and-one program); 132 total hours for graduation (99 for the three-and-one program), and for the B.S. degree (but not for the three-and-one program) major and minor. At least one hour of computer science is required.

Pre-medical Curriculum (Including optometry, osteopathy, 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, or chiropractic should follow this general pre-medical curriculum.

Recommended Curriculum**FRESHMAN**

CHEM 1110, 1111, 1120, 1121	8
MATH 1730*, 1910	8
BIOL 1110, 1120	8
ENGL 1010, 1020 (Area I-A)	6
PHED or M S (Area V)	2
	32

JUNIOR

CHEM 2230	5
CHEM 3530 or 4500	4
CSCI 1150	3
BIOL 3020, 4210	8
HIST 2010, 2020, or 2030 (Area III-A)	6
Gen. Studies (Areas I-B, II-B, and III-B)	9
	35

Students with a weak background in physics should take PHYS 1300 prior to taking PHYS 2010.

*Can substitute MATH 1710 and 1720

**Electives must be selected carefully in order to assure meeting institutional requirements for graduation: (1) completion of General Studies requirements; (2) completion of a minor; (3) completion of a minimum 48 semester hours of upper-division work (courses numbered 3000 and above).

***MATH 1910 and BIOL 2230 required

Pre-medical Technology Curriculum (MT)

The medical technology degree program requires the successful completion of three years (minimum of 99 semester hours) academic work followed by a minimum of 12 months (33 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 Studies 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 (33 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**

ENGL 1010, 1020 (Area I-A)	6
CHEM 1110, 1111, 1120, 1121	8
BIOL 1110, 1120	8
MATH 1710	3
PHYS 1300 (2010/2011)	3-4
PHED or M S (Area V)	2
Gen. Studies (Areas I-B, III-B)	6
	36-37

SOPHOMORE

CHEM 3010, 3020	8
BIOL 2120, 2230	8
PHYS 2010, 2011, 2020, 2021	8
ENGL 2030, 2--- (Area II-A)	6
PHED or M S (Area V)	2
	32

SENIOR

CHEM 4330, 4340	8
BIOL 4130	4
Chemistry, Biology, and General electives**	21
	33

JUNIOR

Chemistry 3530	4
BIOL 4110, 4300, and Biology elective	11-12
Electives*	15-17
CSCI 1150	3
	33-36

*Student should consult advisor for acceptable electives.

FOURTH YEAR: PROFESSIONAL PROGRAM**

Biochemistry (11 semester hours):

Clinical Chemistry

Urinalysis

Special Chemistry

Microbiology (8 semester hours):

Bacteriology

Mycology

Parasitology

Immunohematology (14 semester hours):

Immunology (Serology)

Hematology

Coagulation

Blood Banking

**Specific courses and titles may vary slightly with the different programs. However, the major areas of study are the same and the total course offerings of each affiliated program fulfill the 33 semester-hour requirement.

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

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 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		SOPHOMORE	
CHEM 1110, 1111, 1120, 1121	8	BIOL 1110, 1120	8
MATH 1710, 1720	6	PHYS 2010, 2011, 2020, 2021	8
ENGL 1010, 1020 (Area I-A)	6	MATH 2020	3
Gen. Studies (Area III-A)	6	ENGL 2030, 2--- (Area II-A)	6
PSY 1410	3	COMM 2200 (Area I-B)	3
CSCI 1150	3	PHED 2100 or PHED electives (Area V)	2
PHED or M S (Area V)	2	Social Science elective*	3
	34		33

JUNIOR

CHEM 3010, 3020	8
MATH 1530	3
Gen. Studies (Area II-B)	3
BIOL 2230	4
Upper-division electives	8
Electives	6
	32

Students with a weak background in physics should take PHYS 1300 prior to taking PHYS 2010.

*Psychology, Sociology, Economics, Anthropology, or Political Science

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 and plan to receive their B.S. degree from MTSU after successfully completing the first year (33 credit hours minimum) of physical therapy school. Since different schools have different prerequisites, curriculum guide sheets for this and other PT schools in Tennessee should be obtained from the secretary in DSB 241. 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		SOPHOMORE	
CHEM 1110, 1111, 1120, 1121*	8	BIOL 2010, 2020	8
BIOL 1110, 1120	8	PHYS 2010, 2011, 2020, 2021**	8
ENGL 1010, 1020	6	ENGL 2030, 2--- (Area IIA)	6
MATH 1710, 1720 (or 1730)	4-6	HIST 2010, 2020	6
PSY 1410, 2300	6	Social Science***	3
PHED (Area V)	2	PHED (Area V)	2
	34-36		33

JUNIOR

PSY 3020 (or MATH 1530)	3
CSCI 1150 (or INFS 2200)	3
COMM 2200	3
Gen. Studies (Area II-B)	3
Social Science***	6
Upper-division science elective	4
Upper-division electives	10
	32

*Students with a weak background in chemistry should take CHEM 1010 and 1011 before taking CHEM 1110 and 1111.

**Students with a weak background in physics should take PHYS 1300 before taking PHYS 2010.

***UT-M requires 9 hours of social science which should be taken from MTSU General Studies 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.

Pre-nuclear Medicine Technology

The Nuclear Medicine Technology degree program requires a successful completion of three years (minimum of 99 semester hours) academic work at MTSU followed by a minimum of 12 months (33 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 Studies 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 (junior year, 30 semester hours) must be in residence at MTSU. All other requirements for graduation given elsewhere must be met.

Recommended Curriculum*

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
BIOL 2010**, 2020	8	CHEM 3010, 3020 or 2030, 3530***	8
MATH 1710, 1720	6	PHYS 2010, 2011, 2020, 2021	8
CHEM 1110, 1111, 1120, 1121	8	HIST 2010, 2020 (Area III-A)	6
PHED or M S (Area V)	2	HUM 2130	3
Gen. Studies (Areas I-B, II-B)	6	HLTH 3300	3
	36	PHED 2100 (Area V)	2
			36

JUNIOR

BIOL 2230, 3340, 4150, 4300	14
CSCI 1150	3
Gen. Studies (Area III-B)	3
PHYS 3330	3
MATH 1530	3
PSY 4650	3
SOC 4040	3
HLTH 4270	3
	35

*Program illustrates a typical program of study under the health science concentration in which a student completes the three-year Nuclear Medicine Technology program with the fourth year at a nuclear medicine technology school.

***If the student has not had high school biology, BIOL 1110 is strongly recommended before taking BIOL 2010.*

****CHEM 2030 or 3010 and CHEM 3020 or 3530 are required for the University of Tennessee-Knoxville.*

Pre-radiation Therapy Technology Curriculum

The Radiation Therapy Technology degree program requires a successful completion of three years (minimum of 99 semester hours) academic work at MTSU followed by a minimum of 12 months (33 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 Studies 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 (junior year, 30 semester hours) must be in residence at MTSU. All other requirements for admission given elsewhere must be met.

Recommended Curriculum*

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
BIOL 2010**, 2020	8	PHYS 2010, 2011, 2020, 2021	8
MATH 1710, 1720	6	HIST 2010, 2020 (Area III-A)	6
CHEM 1110, 1111, 1120, 1121	8	HUM 2130	3
PHED or MS (Area V)	2	HLTH 3300	3
Gen. Studies (Areas I-B, II-B)	6	HLTH 4270	3
	36	N FS 1240	3
		Gen. Studies (Area II-B)	3
			35

JUNIOR

BIOL 2230, 3340, 4150	10
CSCI 1150	3
BIOL 4300	4
PHED 2100 (Area V)	2
Gen. Studies (Area III-B)	3
PHYS 3330	3
MATH 1530	3
PSY 4650	3
SOC 4040	3
HLTH 4280	2
	36

**Program illustrates a typical program of study under the health science concentration in which a student completed the three-year Radiation Therapy Technology program with the fourth year at a radiation technology school.*

***If the student has not had high school biology, BIOL 1110 is strongly recommended before taking BIOL 2010.*

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.

Recommended Curriculum

FRESHMAN		SOPHOMORE	
CHEM 1010, 1011, 1020, 1021	8	BIOL 2010, 2020, 2230	12
BIOL 1110, 1120	8	ENGL 2030, 2---	6
ENGL 1010, 1020	6	COMM 2200	3
SOC 1010, 2010	6	Electives*	6
PSY 1410, 1420	6	PHED or M S	2
PHED or M S	2	HIST 2010, 2020	6
	36		35

**The advisor should be consulted for elective recommendations.*

Pre-health Information Management Curriculum

The following curriculum is proposed for students planning to enter the program of health information management (formerly medical record administration) at the College of Allied Health Sciences at the University of Tennessee-Memphis. The program requires three years of study (90 semester hours minimum) at MTSU followed by one calendar year in Memphis. Successful completion of the entire program will entitle the student to receive a Bachelor of Science degree granted by the University of Tennessee.

Students who plan to apply for admission to other schools of health information management should consult with their advisors.

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
Psychology elective	3	COMM 2200	3
MATH 1710	3	PSY 3020	3
PHED	2	HUM 2130	3
Electives	6	PHED	2
	31	Electives	6
			34

JUNIOR*

INFS 2200 or 3100	3
BMOM 3010	3
BLAW 3400	3
BMOM 3510	3
BMOM 4350	3
MGMT 3610	3
Electives	10-12
	28-30

**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 two years of study (64 semester hours minimum) at MTSU followed by two calendar years at UT-Memphis. Successful completion of the program will entitle the student to receive a Bachelor of Science degree in Occupational Therapy granted by the University of Tennessee.

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
MATH 1730 or 1710 and 1720	4-6	INFS 2200	3
CHEM 1110*, 1111	4	PHYS 2010, 2011**	4
PSY 1410	3	PSY 2300, 3230	6
COMM 2200	3	HUM 2130	3
PHED	2	PHED	2
Elective***	3	Electives***	2-4
	33-35		31-33

*Students with a weak background in chemistry should take CHEM 1010, 1011 before taking CHEM 1110, 1111.

**Students with a weak background in physics should take PHYS 1300 before taking PHYS 2010 and 2011.

***Suggested electives from anthropology, art, education, history, kinesiology, language, mathematics, music, philosophy, sociology, and theatre.

Minor in Science

The minor in Science consists of 16 semester hours in biology, chemistry, or physics, and 8 semester hours in one of the other two. At least four upper-division hours in a science must be taken at MTSU. Consult your advisor to determine which courses will satisfy minor requirements.

Courses in Chemistry [CHEM]

1010 (111) Introductory General Chemistry. 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. Must enroll in a 1011 section in the same semester. Will not count toward a major or minor in Chemistry.

1011 (111L) Introductory General Chemistry Laboratory. Laboratory to accompany CHEM 1010. Must be taken **concurrently** with CHEM 1010.

1020 (112) Introductory General Chemistry. Four credits. Prerequisites: CHEM 1010 and 1011. Topics include hydrocarbons, organic functional groups, isomerism, carbohydrates, lipids, nucleic acids and proteins, enzymes, and metabolism. Three hours of lecture. Must enroll in a 1021 section in the same semester. 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 faculty. For non-science majors. Three hours lecture and one two-hour laboratory. **(Does not count toward any major or minor.)**

1021 (112L) Introductory General Chemistry Laboratory. Laboratory to accompany CHEM 1020. Must be taken **concurrently** with CHEM 1020.

1110 (121) General Chemistry. 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. Must enroll in a 1111 section in the same semester.

1111 (121L) General Chemistry Laboratory. Laboratory to accompany CHEM 1110. Must be taken **concurrently** with CHEM 1110.

1120 (122) General Chemistry. 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. Must enroll in a 1121 section in the same semester.

1121 (122L) General Chemistry Laboratory. Laboratory to accompany CHEM 1120. Must be taken **concurrently** with CHEM 1120.

2030 (303) 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 (222) 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 (250) 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 (293, 294) 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 (321) Organic Chemistry. 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 (322) Organic Chemistry. Four credits. Prerequisite: CHEM 3010. A continuation of CHEM 3010. Three hours lecture and one three-hour laboratory.

3180 (324) Organic Chemistry—Laboratory. One credit. Prerequisite: CHEM 3010. Special laboratory techniques involved in the synthesis, isolation, and characterization of organic compounds. One three-hour laboratory.

3530 (325) 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 (350) 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 (397, 398) 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 (431) 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 (424) 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 (423) 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 (401) Physical Chemistry Fundamentals.** 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 (402) Physical Chemistry Fundamentals.** Four credits. Prerequisite: CHEM 4330. A continuation of CHEM 4330. Three hours lecture and one three-hour laboratory.
- 4350 (421) Physical Chemistry.** 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 (422) Physical Chemistry.** Four credits. Prerequisite: CHEM 4350. A continuation of CHEM 4350. Three hours lecture and one three-hour laboratory.
- 4400 (416) 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 (426) 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 (454) 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 (425) 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 (435) 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 (445) 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 (439A) 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 (470) 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 peoples' agricultural, industrial, and social activities. Three hours lecture.
- 4610 (472) 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 (471) 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 (428) Polymers, an Introduction.** Three credits. Prerequisite: CHEM 3020; physical chemistry strongly recommended. Chemistry of polymers; their structure, properties, and applications. Three hours lecture.
- 4730 (429) 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 (400) 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 (415) 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 (450) 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]

- 3080 (306) Liquid Chromatographic Techniques.** One credit. Prerequisite: CHEM 2230 or consent of instructor. Techniques involving the use of liquid, column, paper, thin-layer, and ion-exchange chromatography for the purpose of purifying and/or separating compounds.
- 3090 (307) Techniques of Gas Chromatography.** One credit. Prerequisite: CHEM 2230 or consent of instructor. Principles, techniques, and applications of gas chromatography. Selection of column materials, packing of columns, and types of detectors. Separation of mixtures of hydrocarbons, drugs, and pesticides.
- 3280 (308) Ultraviolet-visible Spectrophotometry.** One credit. Prerequisite: CHEM 2230 or consent of instructor. Techniques used in obtaining ultraviolet and visible spectra and in using these data for analytical determination.
- 4090 (405) Infrared Spectrophotometry.** One credit. Prerequisites: CHEM 3010 and 3020 or 2030. Techniques involving the use of infrared spectrophotometers to aid in the detection and identification, both qualitative and quantitative, of organic molecules. Sample preparation—mulls, liquids, gases, and solids.
- 4190 (408) 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.

- 4280 (406) Atomic Absorption Analysis Techniques.** One credit. Prerequisite: CHEM 2230 or consent of instructor. Laboratory study of atomic absorption spectrophotometry emphasizing the use of the instrument in making analytical measurements. Research instrumentation, flame, and non-flame techniques.
- 4380 (407) 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 (100) 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 Studies course [Area IV-A]. Does not count toward any major or minor.)**
- 4030 (442) 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 (400) 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

In addition to the above courses, 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, Hankins, Li, Parker, Pettey, 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 (Computing Sciences Accreditation Board accredited) or a concentration in Business Applications. Only one minor is required for a Computer Science major. The department cooperates with the Aerospace Department to offer the Airway Science curriculum approved by the Federal Aviation Administration. In addition, a minor in Computer Science is offered.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

Service courses are listed on page 122.

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 and 1920 and MATH 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 lan-

guages 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. The courses listed as service courses do not count toward a major.

Major in Computer Science: No Concentration

In addition to the core requirements, students must complete the following for the CSAB-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).

Recommended Lower-Division Curriculum,

CSAB-Accredited Major

FRESHMAN		SOPHOMORE	
CSCI 1170, 2170	8	CSCI 3080, 3110, 3130, 3160	13
MATH 1910, 1920	8	MATH 2050	3
English (Area I-A)	6	English (Area II-A)	6
Year of Physics, Chemistry, or Biology	8	History (Area III-A)	6
PHED or MS (Area V)	2	COMM 2200 (Area I-B)	3
Gen. Studies (Area II-B)	3	Gen. Studies (Area III-B)	3
		PHED or MS (Area V)	2
	35		36

NOTE: A list of quantitative methods courses may be obtained from the department office.



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.

Recommended Lower-Division Curriculum, Business Applications Major

FRESHMAN		SOPHOMORE	
CSCI 1170, 2170	8	CSCI 3080, 3110, 3130, 3160	13
MATH 1910, 1920	8	MATH 2050	3
English (Area I-A)	6	English (Area II-A)	6
Science (Area IV-A)	8	History (Area III-A)	6
PHED or M S (Area V)	2	COMM 2200 (Area I-B)	3
Gen. Studies (Area II-B)	3	Gen. Studies (Area III-B)	3
	35	PHED or M S (Area V)	2
			36

Minor in Computer Science

A minor in Computer Science consists of 18 semester hours including CSCI 1170, 2170, 3160, and additional courses including three hours selected from upper-division computer science with approval of the minor advisor. The courses listed as service courses do not count toward a minor in Computer Science. 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.

Courses in Computer Science [CSCI]

1160 (116) Fortran Programming. Four credits. Prerequisite: Sufficient background in algebra and trigonometry. Computer organization and algorithm development. Topics include fundamental computer science terminology, data representation, structured programming using the FORTRAN 77 language, and simple data structures. Three lectures and one three-hour laboratory. Only three hours may be counted toward a Computer Science major or minor. Will not count toward Computer Science major if taken after CSCI 1170.

1170 (117) 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, strings, and sets covered. Emphasis on problem solving using the language and principles of structured software development. Three lectures and one two-hour laboratory.

2170 (217) 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 3037 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 (303C) C-Language. Two credits.

3032 (303F) FORTRAN. Two credits.

3033 (303J) Java. Two credits.

3034 (303P) Pascal. Three credits.

3035 (303S) Smalltalk. Two credits.

3036 (303U) UNIX C-Shell Programming. One credit.

3037 (303V) Visual Programming. Two credits.

3080 (308) Discrete Structures. Three credits. (Same as MATH 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 (311) 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 (313) 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 three-hour laboratory.

3160 (316) 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 (318) Introduction to Numerical Analysis. Three credits. (Same as MATH 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.

3210 (321) 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 (325) 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 inter-relationships between the operating system and the architecture of the computer system.

3420 (342) Social, Ethical, and Legal Implications of Computing. Two credits. Prerequisites: A three-hour course in computing and junior standing. Introduction to the impact of computers on society and the ethical and legal issues confronting com-

puter users and professionals. Does not count toward a minor in Computer Science.

- 4110 (411) 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 (413) 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 (416) Compiler Analysis and Design.** 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 (425) 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 (430) 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 (433) 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 (435) 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.
- 4440 (444) System Simulation.** Three credits. Prerequisites: CSCI 2170 and MATH 2050. System simulation in problem solving. Theoretical and realtime systems investigated. Network, discrete, and continuous modeling techniques examined.
- 4560 (456) 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 (460) 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 (470) 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 (480) 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 (485) 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 (490) 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 (491) 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.

Service Courses*

1000 (100) 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.

1150 (115) Computer Orientation. Three credits. A general introduction to computers with an emphasis on personal computing, database, word processing, presentation graphics, spreadsheets, and Internet tools.

3150 (315 A-Z) 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.

*Service courses do not count toward a major or minor in Computer Science.

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

James H. Lorenz, Chair
Voorhies Industrial Studies Complex 143

Beard, Carter, Chen, Cheney, Foroudastan, Gore, Hatfield, Hayes, Mathis, McBride, Nasab, Redditt, Sbenaty, Sergeant, Sridhara

The major purpose of the Engineering Technology and Industrial Studies Department is to prepare students for a broad range of industrial and vocational positions.

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 Engineering Technology, Environmental Science and Technology, Industrial Education, and Industrial Technology.

The Engineering Technology major contains three concentrations: Computer Engineering Technology, Electro-Mechanical Engineering Technology, and Manufacturing Engineering Technology.

The Environmental Science and Technology major is an interdisciplinary program including strong science components and environmental applications under six concentrations: Energy Resource Management, Engineering Technology and Safety, Planning, Site Analysis, Waste Management, and Water Resources.

The Industrial Education major contains three concentrations: Technology Education for teaching in secondary schools, Industrial Training and Development for applications in manufacturing and construction industries, and the Occupational Education concentration for secondary education teachers in vocational-technical education areas.

The Industrial Technology major has three concentrations: Concrete Industry Management, Construction Management Technology, and Industrial Management Technology.

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.

Cooperative Education work experiences are possible for most programs. Interested students should check with their advisors.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

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 Manufacturing Engineering Technology.

In addition to the General Studies courses, the basic requirements for all Engineering Technology concentrations are

1. completion of a core of 14 hours of Engineering Technology courses
 - ET 1840 Engineering Fundamentals, 3 hours
 - ET 3600 Electrical Circuit Analysis, 4 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
 - Manufacturing Engineering Technology, 72 hours
3. completion of other specific courses as shown under the appropriate concentration.

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, telephone: (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, 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 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
MATH 1730, 1910 (Area IV-B)	8	PHYS 2010, 2011, 2020, 2021	
CSCI 1170	4	(Area IV-A)	8
ET 1840	3	ET 3600, 3620	8
BIOL 1030 (Area IV-A)	4	MATH 1920	4
PHED or M S (Area V)	2	CSCI 2170, 3160	7
Speech (Area I-B)	3	PHED or M S (Area V)	2
	30		35
JUNIOR		SENIOR	
HIST 2010, 2020 (Area III-A)	6	ET 4600, 4610	6
ENGL 3520	3	ET 4630, 4670, 4801	11
CSCI 3180	3	ET 4420, 4710, 4970	7
ET 3630, 3640, 3650	12	Technical Elective*	3
ET 4640, 4660	8	ET 3670	4
Humanities (Area II-B)	3	Social Science (Area III-B)	3
	35		34

*Technical elective is to be selected from upper-division ET courses or MATH 1530 as approved by the student advisor.

Students must take three four-course sequences and the capstone course as follows:

Digital Electronics (ET 3600, 3620, 3630, 3640)
 Microprocessor (ET 3620, 3640/3650, 4660, 4670)
 Instrumentation and Control (ET 3600, 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 (or ET 3600 with a prerequisite of MATH 1910), 3620, and 3630 plus two courses from ET 3640, 3650, 3660, 3670, 4600, 4610, 4630, 4640, 4660, 4670, or ETIS 4790. All are four credit hours except ET 4600 which is two and ETIS 4790 which is three. Non-majors may minor in Electronics.

As a prerequisite, ET 3610 replaces ET 3600 for students minoring 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, telephone: (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 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
MATH 1730, 1910,		PHYS 2010, 2011, 2020,	
2110 (Area IV-B)	9	2021 (Area IV-A)	8
CHEM 1110	4	BIOL 1030 (Area IV-A)	4
ET 1210, 1840, 2310	11	ET 3210, 3600, 3830	11
CSCI 1170	4	MATH 1530	3
PHED or M S (Area V)	2	PHED or M S (Area V)	2
	36		34
JUNIOR		SENIOR	
HIST 2010, 2020 (Area III-A)	6	ET 3860, 4420, 4600, 4610	12
COMM 2200 (Area I-B)	3	ET 4640, 4850, 4860	10
ENGL 3520	3	ET 4710, 4970, 4802	7
ET 3360, 3620, 3630	12		29
ET 3650, 3810	7		
Humanities elective (Area II-B)	3		
Social Science elective			
(Area III-B)	3		
	37		

Students must take four three-course sequences and the capstone course as follows:

Robotics (ET 3810, 4850, 4860)
 Control Systems (ET 3600, 3630, 4610, 4600)
 Digital Circuits (ET 3600, 3620, 3650)
 Engineering Mechanics (ET 1840, 3830, 3860)
 Capstone course (ET 4802)

Students should consult their advisors each semester to plan their schedules.

Concentration: Manufacturing Engineering Technology

The Manufacturing Engineering Technology (MET) program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202, telephone: (410) 347-7700. The MET program is the applied arm of Manufacturing Engineering and provides a modern comprehensive education in elements of design (CAD, standards, tolerances, product/process/facilities), engineering management (Quality Assurance, engineering economics, human factors, safety), manufacturing planning and strategy (materials, strategic issues, processes), management (supervision, communication, organization), and computer applications/automation (simulation, lean manufacturing techniques, machine/robot/PLC programming, CAM, material handling/layout). This education provides the background to become a Certified Manufacturing Technologist (CMfgT). The Society of Manufacturing Engineers (SME) administers this examination on campus twice per year. An MET program graduate can expect opportunities for employment in engineering, product/process design, production or technical management, quality, process planning, facilities, CAD/CAM

design/programming, and other areas of the manufacturing organization.

Curriculum Requirements and Recommended Sequence

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
MATH 1730, 1910, 2110 (Area IV-B)	9	PHYS 2010, 2011, 2020, 2021 (Area IV-A)	8
CHEM 1110, 1111	4	BIOL 1030 (Area IV-A)	4
ET 1210, 1840, 2310	11	ET 3360, 3600, 3830, 3860	14
CSCI 1170	4	ENGL 3520	3
PHED or M S (Area V)	2	PHED or M S (Area V)	2
	36		37

JUNIOR		SENIOR	
HIST 2010, 2020 (Area III-A)	6	ET 3810	3
MATH 1530	3	ET 4850, 4950, 4970	9
ET 3260, 4920	6	ET 4803	3
ET 3210, 3910, 4710	8	ET 3950, 4940	7
ET 4280, 4370	8	PSY 1410 (Area III-B)	3
COMM 2200 (Area I-B)	3	Upper-division/technical electives	3
Humanities elective (Area II-B)	3		28
	37		

Recommended electives: See Upper-Division Form

Students must take four three-course sequences and the capstone course as follows:

Materials/Processing (ET 1210, 3260, 4280)
CADD (ET 2310, 3360, 4370)
Manufacturing Analysis (ET 3910, 4950, 4970)
Engineering Mechanics (ET 1840, 3830, 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 Concrete Industry Management, Construction Management, and Industrial Management for manufacturing and service industries.

In addition to the General Studies 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: Concrete Industry Management

The concentration in Concrete Industry Management is designed to produce broadly educated, articulate graduates

grounded in basic science and mathematics who are knowledgeable of 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; production management of a ready mix plant; sales and marketing of production, construction, and finishing equipment; product distribution management; construction specialist in an architectural/engineering firm or a governmental entity; and support positions such as a writer or editor for a technical magazine.

All students in the program complete a basic set of business-related courses including ECON 2410 or 2420, CSCI 1150, BLAW 3400, ACTG 3000, FIN 3000 or 3010, MGMT 3610 and 3940, MKT 3820. However, no more than 25 percent of the total hours can be taken in the Jennings A. Jones College of Business. Additionally, only juniors and seniors will be allowed to enroll in 3000- and 4000-level courses.

Students must select one of the following minors:

Business Administration (to be satisfied by the business courses listed above and three of the following five courses: MKT 3840, 3850, or 4800 or MGMT 3620 or 4680).

Management (to be satisfied by the business courses listed above and MGMT 3620, 4680, and an approved management elective).

Marketing (to be satisfied by the business courses listed above and MKT 3840, 3850, 4800, and an approved marketing elective).

Curriculum Requirements and Recommended Sequence

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
CHEM 1110, 1111; GEOL 1040 (Area IV-A)	8	PHYS 2010, 2011; BIOL 1030 (or BIOL 1110 and 1120)	8
MATH 1710, 1720 or 1730 (Area IV-B)	4-6	ECON 2410 or 2420	3
COMM 2200 (Area I-B)	3	ENGL 3520 or BMOM 3510	3
CSCI 1150	3	Humanities elective (Area II-B)	3
PSY 3020, Q M 2610, or MATH 1530	3	ET 2310	4
PSY 1410 (Area III-B)	3	CM 3000, 3050	7
PHED or M S	2		34
CM 1010	1		
	33-35		

JUNIOR		SENIOR	
HIST 2010, 2020 (Area III-A)	6	ET 4420, 3610, 4710	8
ACTG 3000; BLAW 3400	6	CM 4060, 4150, 4910	9
MGMT 3610; MKT 3820	6	MGMT 3940	3
FIN 3000 or 3010	3	Minor and electives	9-12
CM 3060, 3100, 4050	9	PHED (Area V)	1
ET 3910	3		30-33
PHED or M S (Area V)	1		
	34		

Students should consult their advisors each semester to plan their schedules.

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 wide 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 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
BIOL 1030 (Area IV-A)	4	PHYS 2010, 2011, 2020,	
CHEM 1110, 1111	4	2021 (Area IV-A)	8
MATH 1710 (Area IV-B)	3	HIST 2010, 2020 (Area III-A)	6
COMM 2200 (Area I-B)	3	MATH 1720	3
CM 3150	4	CM 3320; ET 3610	8
INFS 2200	3	Gen. Studies (Area III-B)	3
ET 4420, 2310	7	PHED or M S (Area V)	2
	34		36
JUNIOR		SENIOR	
ACTG 3000	3	CM 4110, 4120	6
BLAW 3400	3	CM 4130, 4170	6
CM 3160, 3170, 3180, 3190	12	ET 4710	1
CM 3000, 4100	8	Minor/electives	15
ET 3910	3	Gen. Studies (Area II-B)	3
Minor/electives	2		31
PHED or M S (Area V)	2		
	33		

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 manufacturing and service sectors. Typical positions include first-level management, safety/ergonomics coordinator, production scheduler, inventory analyst, junior industrial engineer, work team facilitator, and other related positions.

Traditional Track

The traditional track is designed for students with fewer than five years of current relevant industrial experience. Students pursuing this track must complete either nine hours of internship, nine hours of cooperative education, or a combination of the two in an appropriate industrial setting. Students may transfer to the industry-based track if they accumulate five years of current relevant industrial experience prior to graduation.

Up to 18 semester hours may be granted for approved work-based training.

Students should consult their advisors each semester to plan their schedules.

Curriculum Requirements and Recommended Sequence

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
BIOL 1030 (Area IV-A)	4	PHYS 1300, 2010, 2011	
CHEM 1010, 1011	4	(Area IV-A)	7
MATH 1710, 1720 (Area IV-B)	6	Gen. Studies (Area II-B)	3
ET 2310	4	ET 3610, 3950	8
ET 3260	3	ET 3910	3
INFS 2200	3	ETIS 2920 or 2930	3
PHED or M S (Area V)	2	PHED or M S (Area V)	2
	32	Gen. Studies (Area III-B)	3
			35
JUNIOR		SENIOR	
COMM 2200 (Area I-B)	3	ET 3960, 4710	4
HIST 2010, 2020 (Area III-A)	6	ET 4970	3
ET 4940, 4960	6	ET 4910, 4920	6
ACTG 3000	3	ET 4900	3
ET 4420	3	ETIS 4800	3
MATH 1530 or PSY 3020		PSY 3320	3
or Q M 2610	3	ETIS 3930 or 3970	3
ET 4930	3	Upper-division electives	7
ETIS 3920 or 2940	3		32
Elective	3		
	33		

Recommended electives: ET 1210, 3210, 3360, 4280, 4590, 4950; PSY 4360, 4380; FIN 3010; MKT 3820; ENGL 3520

Industry-based Track

Students must have documented a minimum of five years of current relevant full-time industrial work experience approved by a departmental committee prior to graduation to qualify for the industry-based track. The heart of this program is the following 60-hour technical core which combines credit for work-based learning with traditional coursework.

Work-based 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 number of hours for both work experience and work-based learning may not exceed 30 semester hours. Students will be required to go through a formal assessment process to qualify for work-based learning credit.

Technical Courses: Minimum 30 semester hours. Selected from the following with the consent of the advisor and based upon individual's background: ET 1210, 2310, 3210, 3260, 3360, 3610, 3910, 3960, 4280, 4420, 4590, 4900, 4910, 4920, 4930, 4940, 4950, 4960, 4970; ETIS 3920, 3930, 4490, 4700, 4790, 4800.

Students should consult their advisors each semester to plan their schedules.

Curriculum Requirements and Recommended Sequence

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
BIOL 1030 (Area IV-A)	4	PHYS 1300, 2010, 2011 (Area IV-A)	7
CHEM 1010, 1011	4	Gen. Studies (Area II-B)	3
MATH 1710, 1720 (Area IV-B)	6	ET courses and/or work-based learning	14
ET courses and/or work-based learning	7	PHED or M S (Area V)	2
INFS 2200	3	Gen. Studies (Area III-B)	3
PHED or M S (Area V)	2		
	32		35
JUNIOR		SENIOR	
COMM 2200 (Area I-B)	3	ET courses and/or work-based learning	22
HIST 2010, 2020 (Area III-A)	6	PSY 3320	3
ET courses and/or work-based learning	17	Upper-division electives	8
ACTG 3000	3		33
MATH 1530 or PSY 3020 or Q M 2610	3		
	32		

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.

Major in Industrial Education

Three degree concentrations are offered under the Industrial Education major: (1) Technology Education, for those who seek secondary teacher licensure; (2) Industrial Training and Development for those planning to design and conduct train-

ing for adult learners in industrial settings; and (3) Occupational Education, for those who are teaching or plan to teach in vocational-technical programs. Also, courses required for an Occupational Education license and a minor in Industrial Education are offered.

Concentration: Technology Education

The concentration in Technology Education is designed to prepare the student to teach industrial technology in grades 5-12. Included is the study of the evolving philosophy, objectives, and methodology of technology education, as well as the historical development of technology and its impact on people, society, and environment.

Experiences are provided in technical areas to promote an understanding of industrial organization, materials, processes, products, occupations, problems, and environment. This includes provisions to make independent investigations into these various aspects of industry.

Students seeking a license to teach industrial technology in secondary schools (grades 5-12) must complete (1) a major in technology education, (2) a minor in professional education, (3) courses in addition to the General Studies requirements, and (4) professional vocational education courses.

Enhanced General Education Requirements

In addition to the General Studies requirements (see pages 59-61), the following courses are required:

MATH 1710 College Algebra, 3 hours
 MATH 1720 Plane Trigonometry, 3 hours
 JOUR 1020 or RATV 1020 Understanding Mass Media, 3 hours
 PHOT 2050 Basic Black and White Photography, 3 hours
 ET 4710 Industrial Seminar, 1 hour
 Electives to complete a total of 60 hours to include the General Studies requirements

Professional Education Requirements

Students must contact their minor advisor in professional education for approval of appropriate courses. (For specific procedures and additional requirements for teacher licensure, see page 184.)

Technology Education Teacher Endorsement

Individuals who have already earned a bachelor's degree in another field of education may seek to add an endorsement in technology education with the completion of a maximum of 21 additional hours of technical course offerings. Any deficiencies in professional education hours will also have to be removed. The Office of Teacher Licensure at MTSU must be contacted prior to the pursuit of an endorsement. Individuals must also take and pass the national Praxis subject area assessment tests for teachers before licenses are issued.

Professional Occupational Education Requirements

IED 4040 Methods of Teaching Occupational and Technology Education, 3 hours
 IED 4060 Organization and Operation of Occupational Student Organizations, 3 hours

Major Requirements (39 hours)

CM 3150 Construction and Materials I, 4 hours
CM 3320 Architectural Computer-Aided Drafting and Design, 4 hours
IED 4070 Laboratory Organization and Classroom Management, 3 hours
EST 4810 Energy and the Environment, 3 hours
ET 1210 Introduction to Metals and Metallurgy, 4 hours
ET 2310 Computer-Assisted Drafting/Design I, 4 hours
ET 3210 Machine Tool Technology, 4 hours
ET 3260 Manufacturing Processes and Materials, 3 hours
ET 3360 Computer-Assisted Drafting/Design II, 3 hours
ET 3610 Introduction to Electricity and Electronics, 4 hours
ET 4280 Computer-Aided Manufacturing: Numerical Control (NC), 4 hours

Curriculum Requirements and Recommended Sequence

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
BIOL 1030 (Area IV-A)	4	Gen. Studies (Area III-B)	3
PSCI 1030 (Area IV-A)	4	PHED (Area V)	2
PHED (Area V)	1	Professional Education Req.	3
Professional Education Req.	3	HIST 2010, 2020 (Area III-A)	6
MATH 1710, 1720 (Area IV-B)	6	CM 3150	4
ET 1210, 2310	8	ET 3210, 3260, 3610	11
CSCI 1000 or equivalent	1		35
	33		

JUNIOR

COMM 2200 (Area I-B)	3
Gen. Studies (Area II-B) (2 courses)	6
Professional Education Req.	6
PHOT 2050	3
PHED (Area V)	1
ET 3360, 4280	8
CM 3320	4
JOUR/RATV 1020	3
	34

SENIOR

IED 4040, 4060	6
EST 4810	3
IED 4070	3
ET 4710	1
Professional Education Req.	15
Electives	2
	30

Students should consult their advisors each semester to plan their schedules.

**Concentration: Industrial Training and Development**

The concentration in Industrial Training and Development is designed to prepare individuals to design and conduct training for adult learners in industrial settings. A major in Industrial Education with Industrial Training and Development concentration requires

- the following courses:

Manufacturing

ET 1210 Introduction to Metals and Metallurgy
ET 3210 Machine Tool Technology
ET 3260 Manufacturing Processes and Materials
ET 4910 Maintenance Management
ET 4940 Methods and Work Measurement

Engineering Graphics

ET 2310 Computer-Assisted Drafting/Design I
ET 3360 Computer-Assisted Drafting/Design II

Electronics

ET 3610 Introduction to Electricity and Electronics

Internship

ETIS 3920 Industrial Internship I
ETIS 3930 Industrial Internship II

Professional

H SC 3020 Presentation Techniques
IED 4030 Course Development in Occupational and Technology Education
IED 4040 Methods of Teaching Occupational and Technology Education
ET 3910 Introduction to Operations Management
ET 4420 Industrial Safety
ET 4710 Industrial Seminar
PSY 4330 Industrial/Organizational Training and Development
SPSE 3220 Technology in Teaching

- completion of an approved minor of 18 or more semester hours;
- completion of specific courses as listed below.

Curriculum Requirements and Recommended Sequence

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
BIOL 1030 (Area IV-A)	4	COMM 2200 (Area I-B)	3
PSCI 1030 (Area IV-A)	4	Gen. Studies (Area II-B)	3
PHED or M S (Area V)	2	Gen. Studies (Area III-B)	3
MATH 1710, 1720 (Area IV-B)	6	PHED activity or	
ET 1210, 2310, 3360	11	PHED 2100 (Area V)	2
	33	HIST 2010, 2020 (Area III-A)	6
		ET 3210, 3260	7
		Lower-division electives	5
			35

JUNIOR

ETIS 3920; IED 4030	6
ET 3610, 3910, 4910	11
Minor	6
Upper-division electives	4
H SC 3020	2
SPSE 3220	3
	32

SENIOR

IED 4040	3
ETIS 3930	3
PSY 4330	3
Upper-division electives	3
Upper-division minor	12
CSCI 1000 or equivalent	1
ET 4420, 4710, 4940	7
	32

Students should consult their advisors each semester to plan their schedules.

Concentration: Occupational Education

The Occupational Education concentration is designed to provide a baccalaureate degree option for individuals who are teaching or planning to teach in secondary and/or postsecondary schools offering occupational education courses.

In addition to the General Studies requirements, the minimum recommendations for all majors in the Occupational Education concentration are

1. completion of a minimum of 18 semester hours of professional course work;
2. completion of a minimum of 27 semester hours in technical areas which may be met by specializing in a single occupational area or by combining technical courses from two or more occupational areas. ETIS 3920 and 3930 may be applied toward this requirement. Up to 18 semester hours may be granted for appropriate work experience;
3. completion of 6 semester hours of occupational education teaching internship; three years of successful teaching may be substituted for this requirement;
4. completion of an approved minor.

Curriculum Requirements and Recommended Sequence

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020, (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
Science (Area IV-A)	8	Gen. Studies (Areas I-B	9
Math (Area IV-B)	3	II-B, III-B)	6
PHED (Area V)	2	HIST 2010, 2020 (Area III-A)	2
Area of technical		PHED (Area V)	3
specialization	12	IED 4030	3
IED 4000	3	Area of technical	
	34	specialization	6
		SPSE 3220	3
			35
JUNIOR		SENIOR	
IED 4040, 4070	6	IED 4060	3
IED 3050	3	IED 3060	3
Minor	9	Upper-division minor	9
ETIS area of technical		Upper-division electives	15
specialization	9	CSCI 1000 or equivalent	1
Upper-division electives	5		31
	32		

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. Six concentrations in environmental areas—Energy Resource Management, Engineering Technology and Safety, Planning, Site Analysis, Waste Management, and Water Resources—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 67 semester hours in the EST core, 30 hours in General Studies 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, Physics and Astronomy, Geography and Geology, 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 (67 hours)

ABAS 3340, 3370, 6 hours
 BIOL 1110, 1120, 3220, 4240, 15 hours
 CHEM 1110, 1111, 1120, 1121, 2030, 2230, 17 hours
 CSCI 1150, 3 hours
 GEOL 1040, 4 hours
 EST 4760, 4761, 4762, 4763, 4 hours
 EST 4770, 4 hours
 MATH 1710, 1720 (or 1730), 6 hours
 PHYS 2010, 2011, 2020, 2021, 8 hours

Concentration: Energy Resource Management

The Energy Resource Management concentration under the Environmental Science and Technology major includes course work in conservation and the environmental issues in the use of nonrenewable 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

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
BIOL 1110, 1120 (Area IV-A)	8	PHYS 2010, 2011, 2020, 2021	8
CHEM 1110, 1111, 1120, 1121	8	CHEM 2230	5
MATH 1730 or MATH 1710 and 1720 (Area IV-B)	4-6	GEOL 1040	4
EST 4760	1	HIST 2010, 2020 (Area III-A)	6
CSCI 1150	3	EST 4761	1
PHED or M S (Area V)	2	Gen. Studies (Area II-B)	3
		PHED or M S (Area V)	2
	32-34		35

JUNIOR		SENIOR	
CHEM 2030	4	ABAS 3370	3
BIOL 3220, 4240	7	EST 4770	4
PHYS 3700	4	GEOL 4050	3
EST 4810	3	EST 4840 or 4870	3
ABAS 4620 or 4370	3	EST 4820	3
EST 4762	1	EST 4763	1
ABAS 3340	3	Gen. Studies (Area III-B)	3
GEOG 4310	3	Electives	14
COMM 2200	3		34
	31		

Students should consult their advisors each semester to plan their schedules.

Concentration: Engineering Technology and Safety

The Engineering Technology 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

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
BIOL 1110, 1120 (Area IV-A)	8	CHEM 2230	5
CHEM 1110, 1111, 1120, 1121	8	GEOL 1040	4
CSCI 1150	3	ET 3830	3
MATH 1910 (Area IV-B)	4	MATH 1920	4
EST 4760	1	PHED or M S (Area V)	2
ET 1840	3	EST 4761	1
	33	PHYS 2110, 2111, 2120, 2121	8
			33

JUNIOR		SENIOR	
ABAS 3340	3	ET 4420	3
CHEM 2030	4	ABAS 3370	3
HIST 2010, 2020 (Area III-A)	6	COMM 2200 (Area I-B)	3
ET 4450	3	Gen. Studies (Areas II-B, III-B)	6
EST 4762	1	EST 4770	4
ET 2310	4	EST 4763	1
ET 3860	3	BIOL 3220, 4240	7
PHED or M S (Area V)	2	EST 4810 or PHYS 3700	3
Elective	4	Elective	3
	30		33

Students should consult their advisors each semester to plan their schedules.

Concentration: Planning

The Planning 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

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
BIOL 1110, 1120 (Area IV-A)	8	PHYS 2010, 2011, 2020, 2021	8
CHEM 1110, 1111, 1120, 1121	8	CHEM 2230	5
MATH 1710, 1720 or MATH 1730 (Area IV-B)	4-6	ET 2310	4
EST 4760	1	COMM 2200 (Area I-B)	3
CSCI 1150	3	Gen. Studies (Area II-B)	3
PHED or M S (Area V)	2	PHED or M S (Area V)	2
		EST 4761	1
	32-34	Elective	2
			34

JUNIOR		SENIOR	
GEOL 1040	4	ABAS 3370	3
GEOG 4490 or 4520	4	EST 4770	4
CHEM 2030	4	Gen. Studies (Area III-B)	3
BIOL 3220, 4240	7	BIOL 4250	4
ABAS 3340	3	EST 4810	3
EST 4762	1	EST 4763	1
HIST 2010, 2020 (Area III-A)	6	GEOG 4310 or 4530	3-4
Elective	3	GEOL 4120	4
	32	ABAS 4350 or 4370	3
		Elective	5
			33-34

Students should consult their advisors each semester to plan their schedules.

Concentration: Site Analysis

The Site Analysis concentration under the Environmental Science and Technology major is designed to train students to examine an area of perceived pollutants, to obtain and analyze the necessary samples to characterize any contaminants present, and to provide the necessary data for site reclamation or other engineering projects. The required courses for this program are selected from those areas of biology, chemistry, agriculture, and geography/geology which build skills in obtaining accurate data describing the identity, quantity, and location of polluting substances.

Curriculum Requirements and Recommended Sequence

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
BIOL 1110, 1120 (Area IV-A)	8	BIOL 2230, 3220	7
CHEM 1110, 1111, 1120, 1121	8	CHEM 2230, 2030	9
MATH 1710, 1720 or MATH 1730 (Area IV-B)	4-6	PHYS 2010, 2011, 2020, 2021	8
COMM 2200 (Area I-B)	3	CSCI 1150	3
PHED or M S (Area V)	2	PHED or M S (Area V)	2
		EST 4761	1
		EST 4760	1
	32-34		36

JUNIOR		SENIOR	
ABAS 3340, 3370	6	ABAS 4340 or 4350	3
EST 4770, 4810	7	BIOL 4240, 4250	8
GEOL 1040	4	Gen. Studies (Area III-B)	3
EST 4762	1	CHEM 4600, 4630	7
HIST 2010, 2020 (Area III-A)	6	GEOG 4490 or 4520	4
Gen. Studies (Area II-B)	3	EST 4763	1
Electives	6	Elective	3
	33		29

Students should consult their advisors each semester to plan their schedules.

Concentration: Waste Management

The 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		Curriculum Requirements and Recommended Sequence	
FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
BIOL 1110, 1120 (Area IV-A)	8	PHYS 2010, 2011, 2020, 2021	8
CHEM 1110, 1111, 1120, 1121	8	CHEM 2230	5
MATH 1710, 1720, or MATH 1730 (Area IV-B)	4-6	GEOL 1040	4
EST 4760	1	BIOL 2230	4
CSCI 1150	3	EST 4761	1
PHED or M S (Area V)	2	Gen. Studies (Area II-B)	3
	32-34	PHED or M S (Area V)	2
			33

JUNIOR		SENIOR	
CHEM 2030	4	ABAS 3370, 4620	6
BIOL 3220, 4240	7	EST 4770	4
ABAS 3340	3	EST 4763	1
EST 4762	1	Gen. Studies (Area III-B)	3
HIST 2010, 2020 (Area III-A)	6	GEOL 4130	4
ABAS 3700 or 4350	3	CHEM 4360	4
COMM 2200 (Area I-B)	3	BIOL 3210 or 4250	3-4
Elective	5	CHEM 4600	3
	32	GEOL 4120	4
		Elective	2
			34-35

Students should consult their advisors each semester to plan their schedules.

Concentration: Water Resources

The Water Resources concentration under the Environmental Science and Technology major is designed to give the student a detailed background of water sources in the environ-

ment as well as the nature of human impacts on those resources. The student will develop a working knowledge of the chemical, physical, and biological characteristics of both surface and subsurface waters and will be trained in the major methodologies used for sampling these resources. This concentration is highly compatible with the Waste Management, Site Analysis, and Energy Resources Management concentrations.

Curriculum Requirements and Recommended Sequence		Curriculum Requirements and Recommended Sequence	
FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
BIOL 1110, 1120 (Area IV-A)	8	PHYS 2010, 2011, 2020, 2021	8
CHEM 1110, 1111, 1120, 1121	8	CHEM 2230	5
MATH 1710 or MATH 1720 and 1730 (Area IV-B)	4-6	GEOL 1040	4
EST 4760	1	EST 4761	1
CSCI 1150	3	COMM 2200 (Area I-B)	3
PHED or M S (Area V)	2	Gen. Studies (Area II-B)	3
	32-34	PHED or M S (Area V)	2
			32

JUNIOR		SENIOR	
CHEM 2030	4	ABAS 3700, 4370	6
BIOL 3220, 4240	7	EST 4770	4
ABAS 3340	3	BIOL 4250	4
BIOL 2230	4	EST 4763	1
ABAS 3370	3	Gen. Studies (Area III-B)	3
EST 4762	1	CHEM 4600	3
HIST 2010, 2020 (Area III-A)	6	CHEM 4360	4
Electives	6	GEOL 4130	4
	34	Electives	5
			34

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-professional 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.

FRESHMAN

ENGL 1010, 1020	6
MATH 1910, 1920	8
Science*	8
CM 1300	4
ET 1840	3
Social Science Electives	6
35	

*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

Three pre-engineering programs exist at MTSU. All of the programs require 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 one, two, or three years of the curricula shown below at MTSU. Students should consult their advisors 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.

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020	6	PHYS 2110, 2111, 2120,	
CHEM 1110, 1111, 1120,		2121	8
1121	8	MATH 3110, 3120;	10
MATH 1910, 1920	8	STAT 3150	
ET 1840, 2310	7	ET 3830, 3840, 3860	9
CSCI 1170	4	ET 3360, 4970	7
PHED or MS	2	COMM 2200	3
35		37	

JUNIOR: HIST 2010 and 2020; and 23 hours of electives to be chosen from the fields of science, mathematics, English, social science, and business. Students who wish to study chemical engineering should take a second year of chemistry; those who wish to study industrial engineering should take ET 3910. Students must have 24 hours of upper-division credit and 6 of those upper-division semester hours must be in the major area.

Students should consult their advisors each semester to plan their schedules.

Five-Year Engineering Program—Binary Program

Two Bachelor of Science degrees—one from MTSU and one from an engineering school—are awarded to each student who completes the MTSU three-year pre-engineering program and also finishes the final two years in an engineering discipline.

Students should consult their advisors each semester to plan their schedules.

The specific requirements for the MTSU degree are to

1. complete the pre-engineering curriculum as outlined in this catalog;

2. earn 99 semester hours at MTSU, with 24 at the upper-division level;
3. earn 24 semester hours in Engineering Technology and Industrial Studies;
4. meet all of the MTSU General Studies requirements;
5. enroll in and successfully complete (average grade of C) one year (33 semester hours) of an engineering program;
6. be admitted unconditionally to senior status at an engineering school in a recognized engineering discipline;
7. be admitted to upper division using Upper-Division Form.

This program, when taken in cooperation with the University of Tennessee, Tennessee State University, or Tennessee Technological University, requires two years of study at that school for the completion of requirements for a Bachelor of Engineering degree in chemical, civil, electrical, industrial, mechanical, nuclear, agricultural engineering, or others as they are made available. Other cooperating schools have similar requirements and offer various degrees. Specific details can be obtained by contacting the Department of Engineering Technology and Industrial Studies.

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 above program 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.

Engineering Cooperative Program

Superior students may be selected during the spring semester of their freshman year for the cooperative engineering program at Middle Tennessee State University, Tennessee Technological University, or the University of Tennessee. This program is designed to provide actual industrial experience interspersed with academic study on an alternating semester basis. The student would complete the freshman year indicated above and then transfer. A student desiring to be included in this program should confer with his/her advisor before the end of the first semester.

Students should consult their advisors each semester to plan their schedules.

Courses in Construction Management [CM]

1010 (101) 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.

1300 (130) 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.

- 3000 (300) 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 (305) 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 (306) 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.
- 3100 (310) 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.
- 3150 (315) 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 (316) 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 (317) 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 (318) 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 (319) Construction Operations.** Three credits. Prerequisite: CM 3150. Topics Include contractor organization in land development and infrastructure. Management methods used in construction equipment.
- 3320 (332) 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.
- 4050 (405) 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 (406) 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.
- 4100 (410) 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 (411) 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 (412) Specifications and Scheduling.** Three credits. Prerequisites: CM 3170-4100, 3320. Basic methods of writing about characteristics of materials used in the assembling of construction as specified. Flow of labor and material toward specified goal, weather, trade characteristics, and material availability in work scheduling.
- 4130 (413) Construction Administration.** Three credits. Prerequisites: CM 3160-3190. Management and administration of construction to include contracts, office, and field work.
- 4150 (415) 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.
- 4170 (417) Capstone—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.
- 4910 (491) 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 (131) 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 (292) 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 (293) 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 (294) Cooperative Education Experience II.** Three credits. Prerequisite: ETIS 2930. Continuation of ETIS 2930. Pass/Fail.
- 3680 (368) Navigation Avionics.** Three credits. Prerequisite: ET 3660. Theory of operation of all common types of electronic navigation systems for aircraft and the principles of testing for proper operation and alignment. Use of special purpose test equipment to check operation and alignment.
- 3920 (392) 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 (393) Industrial Internship II.** Three credits. Prerequisite: ETIS 3920. A continuation of Internship I. Same stipulations apply. Pass/Fail.
- 3970 (397) Cooperative Education Experience III.** Three credits. Prerequisite: ETIS 2940. Continuation of ETIS 2940. Pass/Fail.
- 3980 (398) Cooperative Education Experience IV.** Three credits. Prerequisite: ETIS 3970. Continuation of ETIS 3970. Pass/Fail.
- 4490 (449 A-Z) Topics in Industrial Technology.** One to six credits. Subject topics offered as required to meet the needs of the class.
- 4700 (470) Industrial Topics.** One to six credits. Problems in any one of a variety of areas to meet the needs of the class.
- 4790 (479) 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 (480I) 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.

- 4990 (499) Introduction to Operations Research.** Three credits. Prerequisites: ET 3910 and MATH 1530 or equivalent. Problem solving in research and development involving operations research models, computer applications, and industrial problems.

Courses in Engineering Technology [ET]

- 1210 (121) 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 (184) 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 (231) Computer-Assisted Drafting/Design I.** Four credits. Prerequisite: ETIS 1310 or CM 1300 or one year of high school drafting. Technical drafting concepts utilizing personal computers, plotters, and appropriate software. Two hours lecture and four hours laboratory.
- 3210 (321) Machine Tool Technology.** Four 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. Two hours lecture and four hours laboratory.
- 3220 (322) Advanced Metalwork.** Four 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). Two hours lecture and four hours laboratory.
- 3240 (324) 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 (326) Manufacturing Processes and Materials.** Three credits. An analysis of machines, tools, processes, and materials used in production.
- 3360 (336) Computer-Assisted Drafting/Design II.** Four credits. Prerequisite: CM 3320 or ET 2310. Utilizes IBM-compatible computer and AutoCAD 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. Two hours lecture and four hours laboratory.

- 3600 (360) Electrical Circuit Analysis.** Four credits. Prerequisite: MATH 1910. Direct current and alternating current circuits. Serves as prerequisite for advanced electricity and electronics courses. Concepts, circuit performance and analysis, and problem-solving techniques using rigorous application of mathematics through calculus. Three hours lecture and three hours laboratory.
- 3610 (361) 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.
- 3620 (362) Digital Circuits Fundamentals.** Four credits. Prerequisite: ET 3600 or permission of instructor. Provides thorough coverage of basic digital electronic circuits analysis and design. Both TTL and CMOS families examined. Number systems, mapping methods, and combinational logic circuits design for digital control strongly emphasized. Three hours lecture and three hours laboratory.
- 3630 (363) Electronics I.** Four credits. Prerequisite: ET 3600 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. Three hours lecture and three hours laboratory.
- 3640 (364) Digital Circuits Design.** Four credits. Prerequisite: ET 3620; corequisite: ET 3630. In-depth study of sequential logic circuits analysis and design including counters, shift registers, and programmable logic devices. Introduction to multi-input system controllers and state machine design using SSI, MSI, and LSI devices. Three hours lecture and three hours laboratory.
- 3650 (365) Introduction to Microprocessors.** Four credits. Prerequisite: ET 3620. 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. Three hours lecture and three hours laboratory.
- 3660 (366) 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 (367) 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 (381) 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 (383) 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 (384) 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 (386) 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 (391) Introduction to Operations Management.** Three credits. A foundation course in manufacturing and service operations management. Problem-solving applications emphasized.
- 3950 (395) Metrology.** Four credits. Overview of methods and procedures of precision measuring and gaging as used in inspection and quality control by industry. Two hours lecture and four hours laboratory.
- 3960 (396) Industrial Quality Technology.** Three credits. Covers breadth and some depth in quality technology. Explores history of quality, present techniques, and future predictions. Lecture.
- 4230 (423) Advanced Machine Tool Technology.** Four 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. Two hours lecture and four hours laboratory.
- 4280 (428) 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 (433) Advanced Computer-Aided Drafting.** Four 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. Two hours lecture and four hours laboratory.
- 4340 (434) 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. Lecture.
- 4370 (437) Tool Design.** Four 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 (442) 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 (444) 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 (445) 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 (459) Fundamentals of Computer-Integrated Manufacturing.** Three credits. Prerequisite: Junior status or consent of instructor. A beginning course to aid in identifying the terms, applications, and requirements for using computer-integrated manufacturing. An overall view of the design, drafting, manufacturing, and integration aspects of using computers for manufacturing. Includes manufacturing, human, and business elements.
- 4600 (460) 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 (461) Instrumentation and Controls.** Four 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. Three hours lecture and three hours laboratory.
- 4630 (463) Local Area Networks.** Four credits. Provides the necessary foundation experience to understand the design, implementation, and management strategies of Local Area Networks (LAN). Data Communication Standards and protocol, fundamentals included. Will include lecture, laboratory activities, and a LAN design requirement. Three hours lecture and three hours laboratory.
- 4640 (464) Industrial Electricity.** Four 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. Three hours lecture and three hours laboratory.
- 4660 (466) Microprocessor Interfacing.** Four credits. Prerequisites: ET 3640 and 3650. Analog and digital conversion devices and their related systems. Introduction to individual subsystems; A/D and D/A data conversion. Organization and design of individual digital systems emphasized. Includes data transfer, conversion, storage, input and output. Focuses on systems which are typically external to microprocessor-based systems. Three hours lecture and three hours laboratory.
- 4670 (467) Microprocessor Design.** Four credits. Prerequisite: ET 4660. Advanced course in design and application of microprocessor-based measurement and control systems. Includes an in-depth analysis of hardware design process. Three hours lecture and three hours laboratory.
- 4680 (468) Electronic Fabrication.** Four credits. Prerequisite: ET 3610 or equivalent. Planning and designing electronic packaging, including printed circuit board design, component selection criteria, construction techniques, soldering techniques, and assembly techniques. Conventional and computer-aided printed circuit board design techniques used. Three hours lecture and three hours laboratory.
- 4690 (469) Electronic System Analysis.** Four credits. Prerequisite: ET 3640 or 4670. Theory of electronic troubleshooting and proper repair techniques of electronic devices. Three hours lecture and three hours laboratory.
- 4700 (470) 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 (471) 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.
- 4801-4804 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 (480C) Computer Engineering Technology.** Prerequisites: ET 4670; CSCI 3160.
- 4802 (480E) Electro/Mechanical Engineering Technology.** Prerequisites: ET 3650, 3860, 4610, and 4860.
- 4803 (480M) Manufacturing Engineering Technology.** Prerequisites: ET 4280, 4370, 4920, and 4970.
- 4804 (480D) Design Engineering Technology.** Prerequisites: ET 3840, 3860, and 4340.
- 4850 (485) 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 understanding the language and graphic symbols associated with fluid power and the performance characteristics of system components. Lecture, laboratory, and problem solving.
- 4860 (486) 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 (490) 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 (491) 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 (492) 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.
- 4930 (493) Production Planning and Control.** Three credits. Prerequisite: ET 3910. Concepts of manufacturing planning, forecasting, material requirements, planning and control of inventories. Emphasis on computer systems for planning, scheduling, and control. Plant tours and special presentations are supplementary.
- 4940 (494) Methods and Work Measurement.** Three credits. Prerequisite: ET 3910. Design of work tasks including analysis and improvement of existing tasks. Establishing engineered time standards by stop-watch, pre-determined times, and work sampling. Application of computer systems in work measurement.
- 4950 (495) Statistical Quality Control.** Three credits. Statistical quality analysis of manufacturing processes including product sampling and design of overall quality system, study of various systems in use by industry.
- 4960 (496) Human Factors Engineering (Ergonomics).** Three credits. Integration of the human into the work task environment. Emphasis on practical applications of ergonomics to task design and analysis. Design teams apply concepts to real world problems. Presentations of projects. Computer applications reviewed.
- 4970 (497) 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 (498) 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.

Courses in Industrial Education [IED]

- 3050 (305) 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 (306) Occupational Teaching Internship II.** Three credits. A continuation of IED 3050.
- 4000 (400) 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 (401) History and Philosophy of Industrial Education.** Three credits. Relation to the development of industrial education stressed.
- 4030 (403) 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 (404) Methods of Teaching Occupational and Technology Education.** Three credits. Understanding and skills required for individualizing instruction in occupational and technology education.
- 4060 (406) 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 (407) 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 (448) 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 (281) 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.
- 4760-4763 (476 A, B, C, D) 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 proposed legislation, and the role of environmental science and technology in pollution control.
- 4770 (477) 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 (478) 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 qual-

ity standards: sources, detection, and analysis instrumentation and practices, and treatment and abatement principles, equipment, and practices.

4810 (481) 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 (482) 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 (484) 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.

4870 (487) Passive Solar Design. Three credits. Prerequisite: EST 4820 or 4 hours science and 3 hours mathematics. Introduces use of passive solar techniques on the construction of residential and light industrial structures including topics such as day lighting, passive solar design, methods, and system integration.

Honors College

The Department of Engineering Technology and Industrial Studies offers periodically the following courses in Honors:
ET 2310 (231H) Computer-Assisted Drafting/Design I
ET 3610 (361H) Introduction to Electricity/Electronics
ET 3910 (391H) Introduction to Industrial Management

Graduate Study

The Engineering Technology and Industrial Studies Department offers the Master of Science and the Master of Vocational-Technical Education degrees. Both include thesis and non-thesis options. Requirements and a list of graduate courses offered may be found in the graduate catalog.



Department of Mathematical Sciences

Curtis Church, Chair
KOM 223D

Adamson, Balch, Barnwal, Baty, Beck, Campbell, Enderson, Hankins, Hart, Hooper, Jamison, Khansari, Kimmins, Krishnamani, Lea, Martin, McSweeney, Melnikov, Miller, Morris, Nelson, Parr, Powell, Raines, Rowell, Sinkala, Tenpenny, Truitt, Walsh, Weaver, Worsey, 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 Studies requirements.

Programs in the department lead to the Bachelor of Arts or Bachelor of Science degrees 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 1410, 1730, 1710, 1720, 1420, 2090, 2130, 1610, 1010, 1810, 1820, 4010, and 1530. However, MATH 1730, 1710, 1720, 2130, 1610, 1810, 1820, and 1530 may count toward a minor in Mathematics for Managerial, Social, and Life Sciences.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

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 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, excluding those in the Actuarial Science concentration, 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*

*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 ACSI 2020, 2030, 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 1160 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 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
MATH 1910, 1920	8	MATH 3110, 2010, 3460	10
MATH 2050	3	Math elective	3
CSCI 1160	4	Gen. Studies (Areas I-B, II-B, III-A)	12
BIOL 1030 (Area IV-A)	4	PHED or M S (Area V)	2
Science (Area IV-A)	4	Minor coursework	3
PHED or M S (Area V)	2		
Minor coursework	3		
	34		36

JUNIOR		SENIOR	
MATH 3120, 4510	6	MATH 4250	3
Math electives	6	MATH 4990	3
Minor coursework	6	Math electives	6
Gen. Studies (Area III-B)	3	Minor coursework	6
Electives	12	Electives	12
	33		30

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

Mathematics majors preparing to teach secondary school mathematics must complete the professional program in Mathematics Education. In addition to the mathematics core, they must take as upper-division coursework MATH 3070, 4510, 4620, 4990, and one upper-level elective in the department. Supporting coursework and/or the enhanced General Studies component consists of MATH 3320, 3330, 4540, CSCI 1170, and 7 hours of approved general education courses. A minor in Secondary Education is required (see Department of Educational Leadership for description). Completion of this 132-hour program leads to a license to teach mathematics in grades 7-12.

Students should consult their advisors each semester to plan their schedules.

Curriculum Requirements and Recommended Sequence for Mathematics Education

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
MATH 1910, 1920, 2050, 2110	12	MATH 3110, 2010, 3460, 3070	13
FOED 1110, 2110	6	COMM 2200 (Area I-B)	3
BIOL 1030 (Area IV-A)	4	SPED 3010	3
HIST 2010 (Area III-A)	3	Gen. Studies (Area II-B)	3
PHED (Area V)	2	HIST 2020 (Area III-A)	3
	33	CSCI 1170	4
			4

JUNIOR		SENIOR	
MATH 3320, 3330, 4510, 4540	12	MATH 4620, 4990, math elective	9
SPSE 3220	3	READ 4460	3
YOED 3050, 3100, 4000	9	Gen. Studies (Area III-B)	3
PHED (Area V)	2	Approved elective*	3
PSCI 1030 (Area IV-A)	4	YOED 4110 (Student teaching)	12
Approved electives*	4		30
	34		30

*Cannot be mathematics or professional education

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 and background for students interested in 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 the art of data analysis and to develop skills in statistical methods of wide application. Emphasizing the 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 and three courses from STAT 4200, 4360, 4370, 4380, MATH 3190. One minor outside the department is required. If the minor is not Computer Science, then the supporting coursework must consist of 12 hours of computer coursework other than service courses. If the minor is Computer Science, then the supporting coursework must be 12 hours chosen with the approval of the statistics advisor from areas that significantly complement the student’s program.

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 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
MATH 1910, 1920	8	MATH 3110, 3460	7
CSCI 1170, 2170	8	MATH 2050	3
BIOL 1030 (Area IV-A)	4	Gen. Studies (Areas I-B, II-B, and III-A)	12
Science (Area IV-A)	4	PHED or MS (Area V)	2
PHED or MS (Area V)	2	Minor coursework	6
	32		36

JUNIOR		SENIOR	
MATH 2010, STAT elective	6	STAT electives	9
STAT 3150, 4190	6	MATH 4990	3
Computer Science course	3	Computer Science course	3
Gen. Studies (Area III-B)	3	Minor coursework	6
Minor coursework	6	Electives	9
Electives	12		30
	36		

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 3150 and 4190; ACSI 4200; and either STAT 4200 or 4360. The supporting coursework consists of 12 hours of computer science other than service courses. The student must complete a minor in the Jennings A. Jones College of Business as well as ACTG 2110, 2120, or 3000, 3020, ECON 2410, 2420, and Q M 4010.

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 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
MATH 1910, 1920	8	MATH 3110, 3460	7
CSCI 1170, 2170	8	MATH 2050	3
BIOL 1030 (Area IV-A)	4	Gen. Studies (Areas I-B, II-B, and III-A)	12
Science (Area IV-A)	4	PHED or MS (Area V)	2
PHED or MS (Area V)	2	ECON 2410, 2420	6
	32		36

JUNIOR		SENIOR	
MATH 2010	3	ACSI 4200, MATH 4990	6
STAT 3150, 4190	6	STAT 4360 (or 4200)	3
Computer Science courses	9	Q M 4010	3
Gen. Studies (Area III-B)	3	Minor/supporting	9-12
ACTG 2110, 2120 or 3000, 3020	6	Electives	8-11
Minor/Supporting	6-9		29-35
Electives	3-6		
	36-42		

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, as well as providing 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 STAT 3150, MATH 3120, 3260, 4250, and 4310. Required supporting coursework includes PHYS 2110,

2111, 2120, 2121 (counted towards satisfying the General Studies Science requirement for area IV-A) and CSCI 1170, 2170. If these courses are taken as part of a minor in Physics or Computer Science, then nine additional hours of supporting coursework must be chosen with the approval of the mathematics advisor from MATH 4601, 4230, 4270, 4320, 4700, STAT 4190. If the minor is not Computer Science, then six additional hours of supporting coursework must be chosen with the approval of the mathematics advisor from MATH 4230, 4270, 4320, 4700, 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 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
MATH 1910, 1920	8	MATH 3110, 3460	7
CSCI 1170, 2170	8	PHYS 2110, 2111, 2120,	
BIOL 1030 (Area IV-A)	4	2121 (Area IV-A)	8
General Studies (Area I-B)	3	MATH 2050	3
PHED or M S (Area V)	2	Gen. Studies (Areas II-B, III-B)	6
	31	PHED or M S (Area V)	2
		Minor coursework	3
			35

JUNIOR		SENIOR	
MATH 2010, 4250	6	MATH 4310	3
STAT 3150	3	MATH 4990	3
MATH 3120, 3260	6	Statistics, Math electives	3
Gen. Studies (Area III-A)	6	General electives	15-18
Minor coursework	9	Minor coursework	6
Math elective	3		30-33
General elective	3		
	36		

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; 15 hours of upper-division actuarial science courses consisting of ACSI 4140, 4220, and three elective courses chosen from ACSI 4230, 4240, 4330, 4340, 4630, and 4640; and 12 hours of supporting coursework consisting of STAT 4190, 4320, and two other courses in the department as approved by the advisor. The student is required to complete ACTG 2110, 2120, ECON 2410, 2420, and at least one course from FIN 3610, 3660, or 3710. 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 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
ACSI 2020, 2030	6	ACSI 3020, 3030	6
CSCI 1170	4	MATH 2050	3
BIOL 1030 (Area IV-A)	4	Gen. Studies (Area III-A)	6
Science (Area IV-A)	4	ACTG 2110, 2120	6
CSCI or INFS elective	3	ECON 2410 (Area III-B)	3
PHED or MS (Area V)	2	ECON 2420	3
Gen. Studies (Area I-B and II-B)	6	PHED or MS (Area V)	2
	35		35
JUNIOR		SENIOR	
STAT 3150, 4190, 4320	9	ACSI electives	15
ACSI 4140, 4200, 4220	9	Minor coursework	6
FIN 3610	3	Electives	9
Minor coursework	9		30
Electives	3		
	33		

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 2020 and 2030 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 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.

Teacher Licensure - Secondary

Students seeking a license to teach mathematics in secondary schools (grades 7-12) must complete the concentration in Mathematics Education, the enhanced general education requirements, and a minor in professional education in ad-

dition to meeting the General Studies requirements. (See Department of Educational Leadership section of catalog for details.)

Teacher Licensure - Elementary

The Department of Mathematical Sciences offers courses required for the Interdisciplinary Studies major for students preparing to teach in grades K-8 or 5-8.

Placement in Freshman Introductory Mathematics Courses

Academic success in mathematics requires that students accurately assess the proper level for their mathematics study. In addition to the requirements of the individual's major, this assessment includes reviewing a combination of ACT scores, the academic assessment placement test, and evaluation of the high school transcript. As many problems arise with individuals placed in courses which are at too low a level as they do with those individuals placed in courses for which they are not yet ready. The ACT scores and the academic assessment placement tests are very useful in ensuring that students are properly placed in developmental courses or college algebra and precalculus. Students who have successfully completed precalculus or a version of calculus in high school should stop by the office of the Department of Mathematical Sciences to have their transcripts evaluated to determine the proper beginning collegiate mathematics course.

All students are encouraged to take their mathematics in consecutive semesters; this will decrease the gap caused by not doing mathematics for long periods of time. It also ensures that you have your mathematics background before it is needed for other courses in the major.

Unless the academic assessment placement test places the student differently (see Developmental Studies Program, page 86), a student entering MTSU with

1. two years of algebra and a mathematics Enhanced ACT greater than 25—(Math SAT greater than 580) **or** with senior advanced mathematics should take the appropriate mathematics courses for his/her major. If in doubt, these students should consult the Department of Mathematical Sciences to select the appropriate level of mathematics courses
2. two years of algebra and a mathematics Enhanced ACT of 19-25—(Math SAT 460-580) should take MATH 1010. Such students who plan to take 1910 must complete 1730 as a prerequisite. Students preparing to become elementary school teachers should take MATH 1410 and 1420.
3. a mathematics ACT of 18 or less on the Enhanced ACT Assessment—(Math SAT less than 460) must take a COMPASS test in mathematics for proper placement. (See Developmental Studies Program, page 86.)
4. one year of algebra must take DSPM 0850 before taking other mathematics courses.

5. no algebra must take DSPM 0800 and DSPM 0850 before taking other mathematics courses.

Courses in Mathematics [MATH]

1010 (300) 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 Area IV-B General Studies 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 (110) 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. Required for students who are preparing to become elementary school teachers. Does not satisfy the Area IV-B General Studies requirement. Topics include tools for problem solving, sets functions, logic, numeration systems, whole numbers, integers, and rationals. Successful completion of an Arithmetic Proficiency Test (APT) is required.

1420 (201) Informal Geometry. Three credits. Prerequisite: A grade of C or better in MATH 1410. Required for students who are preparing to become elementary school teachers. Does not satisfy the Area IV-B General Studies requirement. Topics include an informal study of plane, solid, and coordinate geometry, constructions, congruences, similarity, motion geometry, concepts of measurement, and LOGO.

1530 (STAT 313) 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, pro-



portions, and variances for one and two samples, and topics from one-way ANOVA, regression and correlation analysis, chi-square analysis, and nonparametrics.

- 1610 (243) 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 (141) 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 Area IV-B General Studies 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 (142) 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 (121) 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 (344) Calculus I for Managerial, Social, and Life Sciences.** Three credits. Prerequisites: Two years of high school algebra and a mathematics Enhanced ACT greater than 25 or MATH 1710. An intuitive approach to the concepts of limits; differential and integral calculus with applications to managerial, social, and life sciences. (Not open to those who have had MATH 1910.)
- 1820 (345) Calculus II for Managerial, Social, and Life Sciences.** Three credits. Prerequisite: MATH 1810 or equivalent. A continuation of MATH 1810. Calculus of functions of several variables, logarithms, exponential functions, series, trigonometric functions, and differential equations with applications of these and other topics to managerial, social, and life sciences.
- 1910 (122) Calculus I.** Four credits. Prerequisite: MATH 1730 or equivalent. An introduction to calculus with an emphasis on analysis of functions, multi-disciplinary 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 antidifferentiation and the definite integral; basic applications of integrations; and introductory techniques of integration. Graphing calculator required.
- 1920 (221) 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 multi-disciplinary applications includes Taylor series approximation; applications of integration to physics, biology, and business; and geometric and power series applications. Graphing calculator required.
- 2010 (312) 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.
- 2020 (202) Calculus of Business Engineering I.** Three credits. (Same as ACSI 2020.)
- 2030 (203) Calculus of Business Engineering II.** Three credits. (Same as ACSI 2030.)
- 2050 (STAT 314) 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 (209) 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 (211) Data Analysis.** One credit. Grouping and classifying technical data. Curve fitting by statistical and non-statistical methods. Graphing of scientific data. Secondary education in mathematics students should take concurrent or subsequent to MATH 2050.
- 2130 (213) 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 (302) Calculus of Business Engineering III.** Three credits. (Same as ACSI 3020.)
- 3030 (303) Calculus of Business Engineering IV.** Three credits. (Same as ACSI 3030.)
- 3070 (307) 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 (308) 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 (222) 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 (323) 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 (318) 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 (319) Deterministic and Probabilistic Models.** Three credits. Corequisite: MATH 2050. Linear programming, network analysis, queuing theory, dynamic programming.
- 3260 (326) 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 (332) 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 (333) 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 (340) 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 (346) 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 (401) Selected Topics in Elementary Mathematics.** Three credits. Prerequisites: MATH 1410, 1420, and 1010. Required of students who are preparing to teach grades 5-8. Does not satisfy the Area IV-B General Studies requirement. 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 (439) Introduction to Mathematics of Investment.** Three credits. (Same as ACSI 4200.)
- 4210 (421) Advanced Calculus I.** Three credits. Prerequisites: MATH 3110 and 3460. Theory and application of continuity, differentiation, and integration.
- 4220 (422) Advanced Calculus II.** Three credits. Prerequisite: MATH 4210. A continuation of MATH 4210 including theory and application of convergence.
- 4230 (423) 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 (425) Theory of Calculus.** Three credits. Prerequisites: MATH 3110 and 3460. Theoretical development of limits, continuity, differentiation, and integration in one dimension.
- 4270 (427) Introduction to Topology.** Three credits. Prerequisites: MATH 3110 and 3460. Fundamental concepts of topology including continuity, compactness, connectedness, separation axioms, and metric spaces.
- 4310 (431) 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 (432) Numerical Analysis II.** Three credits. Prerequisite: MATH 4310. A continuation of MATH 4310.
- 4420 (442) Number Theory.** Three credits. Prerequisite: MATH 3460. Divisibility, congruences, quadratic residues, Diophantine equations, quadratic forms, and continued fractions.
- 4470 (447) Introduction to Modern Algebra.** Three credits. Prerequisite: MATH 3460. A treatment of sets, relations, operations, and the construction of number systems in algebra.
- 4510 (451) Abstract Algebra I.** Three credits. Prerequisite: MATH 3460. An introduction to groups, with a brief introduction to rings, integral domains, and fields.
- 4530 (453) Abstract Algebra II.** Three credits. Prerequisite: MATH 4510/5510. The theory of rings, fields, integral domains, and vector spaces.
- 4540 (454) 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 (460) Problems in Contemporary Mathematics.** One to six credits. Pass/Fail grading in specified sections.
- 4601 (460D) Problems in Contemporary Mathematics—Complex Variables.** Three credits. Prerequisite: MATH 3460. Fundamental principles and applications of complex variables.

- 4620 (462) 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 which have occupied successively 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 (405) Mathematics of Risk Management.** Three credits. (Same as ACSI 4630.)
- 4640 (406) Mathematics of Options, Futures, and Other Derivatives.** Three credits. (Same as ACSI 4640.)
- 4700 (470) 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 (480) 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 nonnumerical tools such as theorem provers and algebraic manipulation systems.
- 4990 (499) 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, mathematical 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 (315) 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 (419) 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 (420) 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 (437) 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 (438) 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 (460) 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]

- 2020 (202) Calculus of Business Engineering I.** Three credits. (Same as MATH 2020.) Prerequisite: Eligibility to take MATH 1710. First of a four-course sequence. Introduces the process of mathematical modeling applied to current business problems. For students majoring or minoring in the Jennings A. Jones College of Business and/or obtaining a concentration in Actuarial Science. Topics include 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 business models including cost, revenue, profit, and money behavior.
- 2030 (203) Calculus of Business Engineering II.** Three credits. (Same as MATH 2030.) Prerequisite: ACSI/MATH 2020. Second of a four-course sequence. For students majoring or minoring in the Jennings A. Jones College of Business and/or obtaining a concentration in Actuarial Science. Topics include Riemann Sum, indefinite and definite integrals, modeling using substitution, differential equations with initial conditions, 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.
- 3020 (302) Calculus of Business Engineering III.** Three credits. (Same as MATH 3020.) Prerequisites: ACSI/MATH 2020 and 2030. Third of a four-course sequence. For students majoring or minoring in the Jennings A. Jones College of Business and/or obtaining a concentration in Actuarial Science. Topics include additional methods of integration, approximation of a definite integral by the trapezoid rule and Simpson's Rule, practical uses of partial differentiation, sketching the region of integration for a double integral, integration of double integrals, L'Hopital's Rule, improper integrals, arithmetic sequences, geometric sequences, investigation of partial sum sequences as cumulative functions, use of bond theory or investments to illustrate cumulative functions, convergence and divergence of series, Taylor and Maclaurin series for several functions, and error of approximation.

- 3030 (303) Calculus of Business Engineering IV.** Three credits. (Same as MATH 3030.) Prerequisites: ACSI/MATH 2020, 2030, and 3020. Last of a four-course sequence. For students majoring or minoring in the Jennings A. Jones College of Business and/or obtaining a concentration in Actuarial Science. Topics include differentiation and integration of trigonometric functions, vector spaces, subspaces, dot product, basis, orthonormal basis, linear transformations, kernel subspace, range subspace, matrices representing a linear transformation, return maximization of portfolio, cross product, convex combinations of vectors, affine functions, convex functions, duration and convexity of bonds, moments, moments from a convex combination point of view, and Taylor polynomials for functions of two variables.
- 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 (439) 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 (440) 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 No. 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 (448) 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 No. 3. Topics include survival distributions and life tables, life insurance, life annuities, and net premiums.
- 4340 (449) 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 No. 3. Topics chosen from net premium reserves, multiple life functions, multiple decrement models, valuation theory and pension plans, and insurance models (including expenses and nonforfeiture benefits and dividends).
- 4600 (460) 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 (405) 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 (406) 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**

Giles, Powell, Riedel, Tilton

The Department of Military Science offers courses which are 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 five-week ROTC Basic Camp 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)*		SOPHOMORE (Basic)*	
M S 1010	1	M S 2010	2
M S 1020	1	M S 2020	2
M S 1000**		M S 1000**	
		M S 3000	6

JUNIOR (Advanced)		SENIOR (Advanced)	
M S 3110	3	M S 4110	3
M S 3120	3	M S 4120	3
M S 3130	6	M S 1000**	
M S 1000**			

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 23 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.); GEOG 4300 (1 hr.); M S 1000** (4 hrs.).

**All of the basic military science requisite courses are acceptable for activity courses in lieu of PHED. (Two courses in military science will be accepted for two courses in PHED activity.)*

***M S 1000 Military Science Practicum is one hour per semester but is limited to a maximum of four hours per student.*

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 \$1,500 per year. High school seniors are eligible to apply for a four-year scholarship during their senior year. Applications for four-year scholarships must be submitted before November 15 of the senior year. Applications for two- and three-year scholarships must be submitted by March.

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 \$1,500 per year and approximately \$640 plus travel costs for summer camp attendance.

Courses in Military Science [M S]

- 1000 (100) 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 (101) First Year Basic Military Science.** One credit. Practical application in adventure-oriented skills like 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 (102) 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 (201) 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 (202) 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 (300) Basic Military Science.** Six credits. Prerequisite: Permission of PMS. Five-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.
- 3110 (311) 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. Two one-hour, fifteen-minute periods of class work and two one-hour, fifteen-minute periods of laboratory per week.
- 3120 (312) 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; concentration of skills evaluated at ROTC Advanced Camp. Two one-hour, fifteen-minute periods of class work and two one-hour, fifteen-minute periods of laboratory per week.
- 3130 (313) Military Science Field Methods.** Six credits. Prerequisites: M S 3110 and 3120. Five weeks of training normally taken during the summer between the junior and senior academic years. Training conducted at a designated U.S. Army installation; practical experience in leadership, military teaching, small unit tactics, weapons, and communications under field conditions. U.S. Army pays the student approximately \$640.
- 4110 (411) 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. Two-and-one-half hours of class work and two-and-one-half hours of laboratory per week.
- 4120 (412) 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. Two-and-one-half hours of classroom instruction and two-and-one-half hours of laboratory per week.



School of Nursing

Pamela J. Holder, Director
Cason-Kennedy Nursing Building 201

Burlin, Campbell, Covington, Draude, Dugger, Harris, Hastings, Kinslow, Krau, Lavender, Marquart, Moore, O'Leary, Parsons, Prevost, Rice, Roesler, Sauls, Smith, Ward, Weaver

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. employ the nursing process as a method for providing holistic care that communicates responsiveness to the client's self-care requisites;
2. use theoretical and empirical knowledge and skills drawn from nursing, the humanities, and the natural, social, and medical sciences as bases for formulating nursing practice decisions;
3. analyze social, emotional, physiological, and spiritual factors in determining and meeting the health care requisites of individuals, families, groups, and communities;
4. use research processes and findings as a means for improving therapeutic nursing interventions;
5. exhibit psychomotor competence in nursing system operations;
6. collaborate with consumers and other health professionals for the purpose of enhancing self-care abilities;
7. function as a change agent, client advocate, teacher, and leader in the delivery and management of nursing care;
8. accept legal and ethical responsibility and accountability for nursing practice decisions and actions as well as for individual professional growth and growth of the profession.

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 two years of a pre-nursing curriculum consisting of General Studies courses and nursing prerequisites. Students then apply for admission to the last two years which includes 69 semester hours of upper-division nursing courses. When a student applies for admission to the last two years and is accepted and becomes enrolled, he/she is then classified as a Nursing major. The number of students accepted into the junior year 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 two years of the curriculum should maintain a minimum 2.50 cumulative grade point average and are required to earn no less than a C (2.00) on any prerequisite course.

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 reserve the right to make changes in curricula requirements and/or course sequencing as appropriate.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

Required Pre-nursing Curriculum for the B.S.N.

FALL		SPRING	
ENGL 1010 (Area I-A)	3	ENGL 1020 (Area I-A)	3
BIOL 2010 (Area IV-A)	4	BIOL 2020 (Area IV-A)	4
PHED or M S (Area V)	1	PSCI 1030 or GEOL 1030	
MATH 1530 (Area IV-B)	3	(Area IV-A)	4
Elective (Area I-B)	3	PHED or M S (Area V)	1
	14	PSY 1410 (Area III-B)	3
		N FS 2220	3
			18

FALL		SPRING	
ENGL 2030 (Area II-A)	3	ENGL 2--- (Area II-A)	3
BIOL 2230	4	NURS 3010	3
MATH 2090	2	Elective (Area II-B)	3
PSY 3230	3	SOC 3150	3
HIST 2010 (Area III-A)	3	HIST 2020 (Area III-A)	3
PHED 2100 (Area V)	2	Computer Science	1
	17		16

Required Upper-division Curriculum for the B.S.N.

FALL		SPRING	
NURS 3110	2	NURS 3230	3
NURS 3130	2	NURS 3240	3
NURS 3140	1	NURS 3250	3
NURS 3150	5	NURS 3260	3
NURS 3160	5	NURS 3270	4
NURS 3170	3	NURS 3280	3
	18		19

FALL		SPRING	
NURS 4130	6	NURS 4210	3
NURS 4140	3	NURS 4230	4
NURS 4150	3	NURS 4240	3
NURS 4160	3	NURS 4250	4
	15	NURS 4260	3
			17

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 43 credit hours of required courses including N FS 2220 and PHED 2100. This credit, however, will be held in escrow until the student has matriculated and successfully completed NURS 3110, 3130, 3140, and 3170. 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.

Required Upper-division Curriculum—Students Holding R.N.

Licensure:

SUMMER

NURS 3111	3
NURS 3130	2
NURS 3140	1
NURS 3170	3
	9

FALL

Guided elective	3	SPRING	
NURS 3270	4	NURS 4250	4
NURS 3280	3	NURS 4260	3
NURS 4210	3	Guided elective	3
	13		10

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 year 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 2.50 is required for beginning eligibility.
4. Applicants must have no grade less than a C (2.00) in any prerequisite 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. Students must attain a minimum grade of C (2.00) in all nursing courses.
6. 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.
7. Students may 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.



8. Faculty reserve 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 student an unsatisfactory grade and ask a student to leave clinical agency for the day.
9. 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.
10. 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 readmitted.
11. If a student fails a nursing course at MTSU, he/she **must** repeat that course at MTSU.
12. **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.

Costs

Nursing 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 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]

- 3010 (334) Pathophysiology.** Three credits. (Same as BIOL 3340.) Prerequisites: BIOL 2230, 3130, and 3140. Basic mechanisms of disease processes and their role in disrupting normal physiology. Three hours lecture.
- 3110 (311) 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 (309) 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 (313) 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 (314) 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 (321) 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 (322) 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 (331) Pharmacological Requisites for Nurse Agency.** Three credits. Prerequisites: Science (Area IV-A); BIOL 2230, 2010, 2020; NURS 3010. Knowledge and responsibility necessary for the assessment and monitoring of clients receiving pharmacotherapeutics.
- 3230 (421) 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 (422) 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 (351) 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 (352) 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 (451) 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 (452) 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.
- 4005 (490) 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 (481) 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 (412) 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 (341) 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 (342) 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 (431) 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 (432) 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 (410) 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 (460) 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 (462) 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 (470) 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 (472) 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.

Graduate Study

The School of Nursing offers a graduate certificate in Critical Care Nursing. Requirements for this and a list of the courses offered for graduate credit are published in the Graduate Catalog.



Department of Physics and Astronomy

Robert F. Carlton, Chair
Wiser-Patten Science Building 219

Cook, 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, 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. The Physics major must be accompanied by one minor of at least 18 semester hours in a subject area of the student's choosing. Minors in Physics and Electro-Acoustics are also available.

Environmental Science and Technology is an interdisciplinary major and minor offered by Agribusiness and Agriscience, Biology, Chemistry, Engineering Technology and Industrial Studies, and Physics and Astronomy. A complete description of the program can be found under the Department of Engineering Technology and Industrial Studies listing in this catalog.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

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, 1111, 1120, 1121, 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

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
PHYS 2110-2121 (2010-2021)	8	PHYS 3100, 3110	6
MATH 1910, 1920	8	PHYS 3150, 3160	6
CHEM 1110, 1111, 1120, 1121	8	CSCI 1170	4
PHED or M S (Area V)	2	Electives	6
	32	PHED or M S (Area V)	2
			30

Credit may be received for PHYS 2110-2121 or 2010-2021, but not for both series.

Courses satisfying the remaining areas of General Studies areas 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 professional education, and (3) courses in addition to the General Studies requirements. Students can also become licensed to teach physics under the Science major (see page 112).

Enhanced General Education Requirements

In addition to the General Studies requirements (see pages 59-61) the following courses are required for licensure in physics:

MATH through 3110
CSCI 1160 Fortran Programming
BIOL 1110, 1120 General Biology
CHEM 1110, 1111, 1120, 1121 General Chemistry
ASTR 1030 Exploring the Universe OR
ASTR 3400 Fundamentals of Astrophysics
PHYS 2010-2021 Non-Calculus-Based Physics/Laboratory OR
PHYS 2110-2121 Calculus-Based Physics/Laboratory
GEOL 1040 Physical Geology

Professional Education Requirements

Students must contact their minor advisor in professional education for approval of appropriate courses. (For specific procedures and additional requirements for teacher licensure, see page 184.)

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 and Analog Electronics
PHYS 3610 Thermodynamics
PHYS 3700 Introduction to Environmental Physics
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 (140) 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 (141) 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.

3400 (340) Fundamentals of Astrophysics. Three credits. Prerequisite: PHYS 2020 or 2120. 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 (341) Experimental Astronomy. One credit. Prerequisite: Consent of instructor. Principles and techniques of astronomical data acquisition and reduction. Possible research topics involve photometry, spectroscopy, astronomical applications of electronic detectors, and computer modeling.

Courses in Physics [PHYS]

1300 (130) Discovering Physics. Three credits. Prerequisite: MATH 1710. 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 (160) 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 (231) 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 (233) 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 (232) Non-Calculus-Based Physics II. Zero credit. Prerequisites: PHYS 2010 and 2011. Required corequisite: PHYS 2021. Web-based-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 (234) Physics Problems Laboratory II. Four credits. Prerequisites: PHYS 2010 and 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 (235) Calculus-Based Physics I. Three credits. Prerequisite: MATH 1910. Corequisite: PHYS 2111. A calculus-based introduction to mechanics, wave motion, electricity, magnetism, circuit analysis, and optics.

2111 (237) 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 (236) Calculus-Based Physics II. Three credits. Prerequisites: PHYS 2110 and 2111; MATH 1920. Corequisite: PHYS 2121. A continuation of PHYS 2110.

2121 (238) University Physics Laboratory II. One credit. Prerequisites: PHYS 2110 and 2111 or PHYS 2010 and 2011. 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 (300) 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.

3100 (310) Modern Physics I. Three credits. Prerequisites: PHYS 2020 or 2120 and MATH 1920 or consent of instructor. Introduction to the fundamental principles of modern physics (spe-

cial relativity and quantum mechanics) and their application to atomic physics.

- 3110 (311) 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 (315) Topics and Methods of Theoretical Physics I.** Three credits. Prerequisites: PHYS 2020 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 (316) 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 (320) 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 (330) 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 (331) Concepts and Applications of Digital Electronics.** Three credits. Prerequisite: PHYS 2021 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 (333) Health Physics and Radiation Protection.** Three credits. Prerequisites: PHYS 2021 and 2020 or 2120 and 2121. 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 (334) 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 (335) Concepts and Applications of Analog Electronics.** Four credits. Prerequisite: PHYS 2020 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 (350) 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.
- 3610 (361) Thermodynamics.** Three credits. Prerequisite: PHYS 3110 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.
- 3700 (370) Introduction to Environmental Physics.** Four credits. Prerequisites: CHEM 1110 and 1111; PHYS 2021 and 2020 (or 2120 and 2121). Energy, energy conversion processes, and radiation and their roles in technological development and the quality of the natural environment. Three hours lecture and one three-hour laboratory.
- 3800 (380) Physics Seminar.** One credit. Prerequisites: PHYS 3150 and consent of instructor. 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 (390) Physics Practicum.** One credit. Prerequisites: One year of physics and MATH 1910. 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 (391, 392) Advanced Physics Laboratory.** One credit each. Prerequisites: PHYS 2021 and PHYS 2020 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.
- 4010 (401) Thermometry and Calorimetry.** One credit. Prerequisite: PHYS 3610. Temperature measurements and calorimetric determinations. Characteristics, preparation, calibration and use of thermocouples, resistance thermometers, pyrometers, thermistors, and constant volume gas thermometers. Instrument characteristics and sample preparations for heat capacities and yields.
- 4070 (407) Vacuum Techniques.** One credit. Prerequisite: PHYS 3610. Vacuum system design and construction with respect to pumps and their capabilities, gauges, and measurement of very low pressure, leak detection and leak repair, seals, and cements. Thin film deposition techniques in vacuum.
- 4310 (431) Electricity and Magnetism.** Three credits. Prerequisite: PHYS 3160 or consent of instructor. 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 (433) 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 (438) Introduction to Quantum Mechanics.** Three credits. Prerequisites: PHYS 3110 and 3160 or permission of instructor. 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.

4630 (463) 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- (480A, 480B) Special Topics in Physics. Three credits each.

4810 Prerequisites: An extensive physics background and permission of instructor. 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 (480A) Special Topics A

4810 (480B) Special Topics B

4850- (485A, 485B) Physics Research. Two credits each. Prerequisite: Consent of instructor. Independent study of a selected

4860 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 (490) Physics Senior Thesis. Two credits. Prerequisite: PHYS 4850 or consent of thesis advisor. Brings undergraduate experience 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 (495) Modern Physics Laboratory. One credit. Prerequisites: PHYS 2021 or 2121 and 3110. Concepts and ideas which formed the basis for an understanding of the atom and atomic phenomena. One three-hour laboratory.

Honors College

In addition to the above courses, the Department of Physics and Astronomy offers the following courses in Honors: PHYS 2011 (233H) and PHYS 2021 (234H). See current class schedule and Honors information in this catalog.



Department of Accounting

Ken Harmon, Chair
Business and Aerospace Building N425C

Boyd, Brandon, Burton, Bush, Colvard, Dawkins, Farmer, B. Harper, P. Harper, Harrington, Hopper, James, Johns, Jones, Olibe, Reynolds, Rezaee, Smith, Thomas, Ward, 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 an additional 18 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).

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

Major in Accounting

In addition to meeting the Jennings A. Jones College of Business requirements (see page 158), an Accounting major consists of 27 semester hours of accounting and requires a minimum of 2.00 GPA. At least 12 semester hours must be taken in residence at MTSU. Majors must earn a C (2.00) or better in all required 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

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
Science (Area IV-A)	8	HIST 2010, 2020 (Area III-A)	6
PHED (Area V)	2	PHED (Area V)	2
UNIV 1010	3	ACTG 2110, 2120	6
Gen. Studies (Area II-B)	3	INFS 2200	3
ECON 2410 (Area III-B), 2420	6	Q M 2610	3
MATH 1610 (Area IV-B)	3	COMM 2200 (Area I-B)	3
MATH 2020 or 1810	3	Non-business elective	3
(Area IV-B)	3		32
	34		

JUNIOR

INFS 3100	3	SENIOR	
ACTG 3110, 3120	6	ACTG 4530	3
ACTG 3310, 4510	6	ACTG 4620 or 4---	3
MGMT 3610, 3620	6	ACTG electives*	9
Q M 3620	3	BLAW 3400, 3430	6
BMOM 3510, FIN 3010	6	Non-business electives	6
MKT 3820	3	B AD 4980	3
ECON 3210 or BMOM 4510	3		30
	36		

**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 (111) 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 (211) 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 (212) Principles of Accounting II.** Three credits. Prerequisite: ACTG 2110. A continuation of ACTG 2110 with emphasis on partnership and corporate entity accounting.
- 3000 (300) 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 (311) Financial Accounting and Reporting I.** Three credits. Prerequisites: ACTG 2120 or ACTG 3000 with minimum grade of C; MATH 1610; GPA of at least 2.00; junior standing. Accounting practices and fundamental theories (balance sheet sequence) with some review of authoritative accounting pronouncements.
- 3120 (312) 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 (331) Cost Accounting.** Three credits. Prerequisites: ACTG 2120 or 3000 with minimum grade of C; MATH 1610; 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 (356) 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 (411) 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 (442) 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 (451) 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 (453) 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 (454) 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 (457) 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 (461) 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 (462) 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 (463) 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 (465) Accounting Theory.** Three credits. Prerequisite: ACTG 3120 with minimum grade of C (or taken concurrently). Analysis of propositions, 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.)
- 4980 (498) 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 (340) 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 (343) Commercial Law.** Three credits. Prerequisite: BLAW 3400. 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.
- 3450 (345) 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.
- 3460 (346) 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.
- 3480 (348) Legal Aspects of Banking and Finance.** Three credits. Prerequisite: BLAW 3400. Government regulation of the securities market and U.S. banking laws. Considers legal constraints affecting decisions of the investment advisor and officers of financial institutions.
- 4420 (442) 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.
- 4470 (447) 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 (449) 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 (450) Employment Discrimination Law.** Three credits. (Same as MGMT 4500.) Prerequisite: BLAW 3400. 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 anti-discrimination law.
- 4990 (499) 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, Fann, Ford, Lewis, Moore, Sawyer, 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, Marketing Education, Entrepreneurship, and Office Management. Programs for the first two majors lead to the Bachelor of Science degree while the latter two majors lead to the Bachelor of Business Administration. A two-year program is offered in administrative business. 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.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

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 Education major who is licensed to teach will have minors in Busi-

ness Administration and Secondary Education. The Business Education major will be licensed to teach all business courses as outlined under the section entitled "Teacher Licensure Requirements."

Required Program

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
BMOM 2320	3	History (Area III-A)	6
BMOM 2330	3	MATH 1610	3
Science (Area IV-A)	8	ACTG 2110, 2120	6
PHED (Area V)	2	ECON 2410 (Area III-B), 2420	6
FOED 1110, 2110	6	Q M 2610	3
BMOM 1400	3	PHED (Area V)	2
MATH 1710 (Area IV-B)	3	BMOM 2340	3
	34		35

JUNIOR

ART 1030 or MUS 1030 (Area II-B)	3	YOED 3050, 4000, 4110	18
COMM 2200 (Area I-B)	3	BMOM 4240, 4510	6
INFS 3100	3	SPSE 3220	3
BMOM 4710, 4250	6		27
BLAW 3400	3		
BMOM 3510	3		
MGMT 3610	3		
MKT 3820	3		
BMOM 4340	3		
FIN 3010	3		
SPED 3010	3		
	36		

SENIOR

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 advisor 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 emphasis may be selected and includes the following courses: BMOM 4200, 4410, 4450, 4660, 4810 or approved BMOM 4000 elective, MGMT 3810, and B AD 4980.

Both options include a Business Administration minor and require a minimum of 12 hours of the major in residence at MTSU.

Required Program

Lower-Division Program for Non-Teaching and Training and Development Non-Teaching Options for Business Education Majors

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
UNIV 1010	3	History (Area III-A)	6
Science (Area IV-A)	8	PHED (Area V)	2
MATH 1710 (Area IV-B)	3	MATH 1610	3
PHED (Area V)	2	ECON 2410 (Area III-B), 2420	6
BMOM 1400, 2330	6	ACTG 2110, 2120	6
Gen. Studies (Area II-B)	3	Q M 2610	3
Non-business elective	3	Gen. Studies (Area I-B)	3
	34		35

Upper-Division Program, Non-Teaching Option

JUNIOR		SENIOR	
BMOM 2320	3	BMOM 4240 or 4000-level elective	3
MGMT 3610, 3620	6	BMOM 4710	3
BMOM 3510, 4510, 3010	9	BMOM elective*	3
BLAW 3400	3	Electives*	9
MKT 3820	3	Non-business electives*	9
INFS 3100	3	B AD 4980	3
FIN 3010	3		
BMOM 4900 or 4450	3		
	33		30

*Students must complete 48 hours of upper-division courses.

Upper-Division Program, Training and Development Non-Teaching Option

JUNIOR		SENIOR	
MGMT 3610, 3620	6	BMOM 4240, 4670, 4800, or 4900	3
BMOM 3510, 4510, 3010	9	BMOM 4660, 4710	6
BLAW 3400	3	BMOM 4450, 4200	6
MKT 3820	3	Non-business electives	9
INFS 3100	3	B AD 4980	3
FIN 3010	3		
MGMT 3810	3		
BMOM 4410	3		
Elective	3		
	36		27

Major in Marketing Education

Marketing Education majors receive preparation to be marketing education coordinators in high schools, vocational-technical schools, and junior colleges and to teach subjects such as marketing and other basic business courses. The Mar-

keting Education major who is licensed to teach will have minors in Business Administration and Secondary Education.

Students who seek to be graduated without meeting licensure requirements are not required to take the courses for the Secondary Education minor but should meet with the BMOM Department chair before filing an upper-division form.

Required Program

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
MATH 1710 (Area IV-B)	3	History (Area III-A)	6
Science (Area IV-A)	8	ECON 2410 (Area III-B), 2420	6
FOED 1110, 2110	6	ACTG 2110, 2120	6
BMOM 1400, 1410, 2330	9	Q M 2610	3
PHED (Area V)	2	MATH 1610	3
	34	BMOM 2340	3
		PHED (Area V)	2
			35

JUNIOR

COMM 2200 (Area I-B)	3	YOED 3050, 4000, 4110	18
MUS 1030 or ART 1030 (Area II-B)	3	BMOM 4240	3
INFS 3100	3	SPSE 3220	3
MGMT 3610	3	BLAW 3400	3
BMOM 3510, 2900	6		27
SPED 3010	3		
BMOM 4510	3		
MKT 3820	3		
FIN 3010	3		
BMOM 4520, 4600	6		
	36		

Minor in Marketing Education

A minor in Marketing Education consists of the following 18 hours: BMOM 1400, 2900, 3510, 4520, 4600, and 4660.

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 will provide the impetus to start and operate a successful business.

A major in Entrepreneurship consists of 30 hours, 12 of which must be taken in residence at MTSU, and includes a Business Administration minor. Course requirements for the major follow.

Required Program**FRESHMAN**

ENGL 1010, 1020 (Area I-A)	6
UNIV 1010	3
Science (Area IV-A)	8
MATH 1610	3
MATH 2020 or 1810	3
PHED (Area V)	2
BMOM 1400	3
Gen. Studies (Areas I-B, II-B)	6

34**SOPHOMORE**

ENGL 2030, 2--- (Area II-A)	6
History (Area III-A)	6
PHED (Area V)	2
ECON 2410 (Area III-B), 2420	6
ACTG 2110, 2120	6
Q M 2610	3
BMOM 2330, 2340, or	
INFS 2200	3
BMOM 2900	3

35**JUNIOR**

MGMT 3610, 3620	6
Q M 3620	3
INFS 3100	3
MKT 3820	3
FIN 3010	3
BMOM 3510	3
BLAW 3400	3
ECON 3210	3
Non-business elective	3
ACTG 3020	3

33**SENIOR**

MGMT elective	3
MKT 3930	3
MKT elective	3
MGMT 4920, 3650	6
BLAW elective	3
BMOM 4620	3
BMOM 4810, MGMT 4950,	
or MKT 4950 (internship)	3
Non-business elective	3
B AD 4980	3

30**Minor in Entrepreneurship**

A minor in Entrepreneurship consists of the following 21 hours: BMOM 1400, 2900; ACTG 3000 (or 2110 and 2120); FIN 3000 or 3010; MGMT 3610, 4920; and MKT 3820.

Major in Office Management

Office Management majors receive preparation to become 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 36 hours, 12 of which must be in residence at MTSU, and includes a Business Administration minor. Course requirements for the major are listed below.

Required Program**FRESHMAN**

ENGL 1010, 1020 (Area I-A)	6
UNIV 1010	3
Science (Area IV-A)	8
BMOM 1410, 2320	6
MATH 1710 (Area IV-B)	3
PHED (Area V)	2
PSY 1410	3
Gen. Studies (Area I-B)	3

34**SOPHOMORE**

ENGL 2030, 2--- (Area II-A)	6
History (Area III-A)	6
ACTG 2110, 2120	6
ECON 2410 (Area III-B), 2420	6
MATH 1610	3
Q M 2610	3
BMOM 2330	3
PHED (Area V)	2

35**JUNIOR**

Gen. Studies (Area II-B)	3
MGMT 3610, 3620	6
Q M 3620	3
MKT 3820	3
BLAW 3400	3
FIN 3010	3
BMOM 3510, 4510	6
INFS 3100	3
BMOM 3010	3
BMOM 2340	3

36**SENIOR**

BMOM 4350, 4640, 4660	9
Non-business electives	6
BMOM elective*	3
BMOM electives**	6
B AD 4980	3

27

*Selected from BMOM 4450, 4650, 4670, 4680, or 4900

**Selected from BMOM 4340, 4410 or 4800/4810

Minor in Office Management

For a minor in Office Management, one may choose 18 semester hours from BMOM 1310 or 2320, 2330, 3010, 3510, 4350, 4510, 4640, 4660, and 4900.

Minor in Business Communication

A minor in Business Communication consists of 18 hours and must include BMOM 1550, 3510, and 4660. The remaining 9 hours are to be selected from BMOM 2320, 2330, 2340, 2600, 4510, and 4670 and must be approved in advance by the minor advisor.

Special Business Program**Administrative Business**

A two-year special business curriculum in administrative business is offered for students who desire a shorter, more concentrated period of business training in which primarily only business subjects are taken. Students completing the outlined two-year business sequence with at least a 2.00 overall average in 64 semester hours earn a special business certificate. A student may transfer from this special business program to any of the four-year degree programs within the department. Course substitutions may be made in the following program only with the consent of the department chair.

Administrative Business**FIRST YEAR**

BMOM 1400, 2000	6
BMOM 1550	3
BMOM 1410	3
BMOM 1310, 2320	6
BMOM 2330	3
PHED	2
BMOM 2900	3
ACTG 2110	3
BMOM track course*	3

SECOND YEAR

BMOM 2340, 3510, 4350	9
BMOM 3010, 4640	6
BMOM 4800 or 4810	3
BMOM track courses*	6
Electives	6
PHED or PHED 2100	2

32**32**

*See department for track courses.

Certified Professional Secretary

Those persons having successfully passed the Certified Professional Secretary's examination and who have successfully completed 12 semester hours of study in the Jennings A. Jones College of Business at MTSU may make formal application to the chair of the BMOM Department for credit for each of the following courses and a grade of P will be recorded if no previous credit has been earned. Each course carries three hours credit.

ACTG 2110	Principles of Accounting
BMOM 1550	Introduction to Word Processing Skills
BMOM 3010	Office Management
BMOM 3510	Business Communication
BLAW 3400	Legal Environment of Business
ECON 2410	Principles of Economics

Credit is subject to change when the actual content of the CPS examination no longer corresponds to the course content.

Courses in Business Education, Marketing Education, and Office Management [BMOM]

- 1000 (100) 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 alpha-numeric keyboard. Students needing to operate a computer terminal keyboard receive basic skills required to input information swiftly and efficiently.
- 1310 (131) 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 (140) 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 (141) Applied Distributive Computation.** Three credits. Relates mathematical computations using electronic calculating methods to a broad area of business, marketing, and administrative office occupations.
- 1550 (155) 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 (200) 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 (228) Medical Dictation and Transcription.** Three credits. High speed dictation and transcription of medical material. Two- and three-voice dictation.
- 2320 (232) 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 (233) Word Processing Concepts.** Three credits. (BMOM 2320 recommended.) Familiarization with word processing equipment, implications, and applications in business operations.
- 2340 (234) 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 (235) 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 (260) 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 (276) Legal and Technical Terminology.** Three credits. Covers the most common legal terms, their pronunciations and spellings, needed by legal assistants.
- 2900 (290) Entrepreneurship.** Three credits. (BMOM 1400 recommended.) The mechanics and operational skills needed for organizing and operating an enterprise.
- 3010 (301) 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 (351) 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 general functions of business communication and composing effective business letters.
- 4200 (420 A-Z) 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 (421) 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 (424) 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 (425) 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 (434) 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 develop a thorough knowledge and refine skills using various application software.
- 4350 (435) 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 (441) 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 (445) 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 (451) 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 (452) Instructional Strategies in Marketing Education.** Three credits. Prerequisite: Junior standing. Develops competence in techniques of teaching with emphasis on problem-solving and demonstration procedures. Emphasizing teaching-learning evaluation.
- 4600 (460) Organization and Administration of ME Programs.** Three credits. Prerequisite: Junior standing. Organizing marketing education programs at secondary and post-secondary levels; emphasizes youth organizations, techniques of coordination, and administrative procedures.
- 4620 (462) 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 (464) Problems in Office Management.** Three credits. Prerequisite: Junior standing. (BMOM 3010 recommended.) Significant research in office management; observations in local business offices, visiting office managers; and identifying and solving office problems.
- 4650 (465) 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 (466) 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 (467) 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 (468) 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 (471) 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 (473) 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 (480) 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 (481) Internship Program.** Three credits. Prerequisite: Junior standing. A supervised program requiring 300 hours of work experience in a position related to student's major. Provides experience of the application of theory to practice. Can be applied toward the student's degree requirements only upon approval of department chair.
- 4900 (490) 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.

Department of Computer Information Systems

Lee Maier, Chair
Business and Aerospace Building N333C

Adams, Aggarwal, C. Clark, J. Clark, Freeman, Gambill, Gober, Greer, Holmes, Hughes, Lee, Morris, Murtaza, Rob, 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 prepares 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 12 semester 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.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

Major in Information Systems

In addition to meeting the business requirements (see page 158), 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 18 hours are required of all Information Systems majors:

INFS 2720	COBOL Applications
INFS 3700	Introduction to System Analysis and Design
INFS 4760	Advanced Programming
INFS 4790	Database Techniques
INFS 4900	Seminar in Data Communications
INFS 4980	Management Information Systems (MIS) Project

In addition, 12 hours of electives must be chosen from the following courses:

INFS 2200	Introduction to Microcomputing
INFS 3200	Business Applications of Microcomputers
INFS 3500	Decision Support Systems
INFS 3990/4990	Independent Study in Information Systems
INFS 4200	Microcomputer Database Applications
INFS 4420	Information Systems Internship
INFS 4500	New Technologies in Information Systems
INFS 4740	Information Resource Management
INFS 4830	Database Design and Application Development

The following is the required course outline for the Information Systems major with a minor in Business Administration.

Required Program

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
Science (Area IV-A)	8	HIST 2010, 2020 (Area III-A)	6
UNIV 1010	3	PHED (Area V)	2
PHED (Area V)	2	ACTG 2110, 2120	6
Gen. Studies (Area I-B)	3	INFS 2720	3
ECON 2410 (Area III-B), 2420	6	Gen. Studies (Area II-B)	3
MATH 1610 (Area IV-B)	3	Q M 2610	3
MATH 2020 or 1810 (Area IV-B)	3	Non-business elective	3
	34		32
JUNIOR		SENIOR	
INFS 3100, 3700, 4760	9	INFS 4790, 4900, 4980	9
Q M 3620	3	ECON 3210	3
MGMT 3610, 3620	6	Q M 4010	3
BMOM 3510, FIN 3010	6	INFS courses	9
ACTG 3020 or 3310	3	Non-business elective	3
INFS course	3	B AD 4980	3
BLAW 3400	3		30
MKT 3820	3		
	36		

Minor in Information Systems

A minor in Information Systems consists of 18 semester hours of coursework in information systems, 6 hours of which must be taken at MTSU. INFS 2200, 3100, and 3700 are required. One of the following must be taken: INFS 3200 or 4830. In addition, six hours of approved INFS electives are required. Recommended background courses for this minor are ACTG 3000, MATH 1610, Q M 2610, or the equivalent of these.

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 (100) 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 (220) Introduction to Microcomputing.** Three credits. Microcomputer applications and the microcomputer environment.
- 2720 (272) COBOL Applications.** Three credits. Prerequisite: INFS 2200. Systems of commercial computer programming using Common Business Oriented Language in solving business problems.
- 3100 (310) Principles of Management Information Systems.** Three credits. Prerequisite: Junior standing. The role of information technology in organizations.
- 3200 (320) Business Applications of Microcomputers.** Three credits. Prerequisites: INFS 2200; junior standing. An applications-oriented course including extensive laboratory work and development of projects.
- 3500 (350) 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 (370) Introduction to System 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 (399) 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 (420) Microcomputer Database Applications.** Three credits. Prerequisites: 6 hours of information systems; junior standing. Focus on database system design, deploying, maintaining, and querying a database using appropriate hardware and software. E-commerce applications in a microcomputer environment.
- 4420 (442) 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 (450) 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 (474) 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 (476) 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 organi-



zation; interactive, menu-driven applications; and uploading/downloading programs to a central site. Requires extensive laboratory work.

- 4790 (479) Database Techniques.** Three credits. Prerequisites: 6 hours of information systems, including INFS 3700; 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 (483) Database Design and Application Development.** 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 (490) Seminar in 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 (498) Management Information Systems (MIS) Project.** Three credits. Prerequisites: Senior standing and 12 hours of information systems credit including INFS 3700. Systems Development Life Cycle (SDLC) design and implementation. Appropriate automated technologies will be used throughout the course.
- 4990 (499) 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 (261) Statistical Methods I.** Three credits. Prerequisite: MATH 1610. 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 (362) 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 (364) Introduction to Operations Research.** Three credits. Prerequisites: Q M 3620; junior standing. Optimization techniques used in business decision making.
- 4010 (401) 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, Hollman, Homaifar, Kyle, Lee, Michello, Norman-Zietz, Nguyen, 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.

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.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

Major in Economics

Economics majors are encouraged to enroll in Honors 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 158) in the college;
2. ECON 3210, 3510, and 4570;
3. at least 15 additional upper-division hours in economics.

This program incorporates a minor in Business Administration and requires 12 hours of major courses 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.

Required Program

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
UNIV 1010	3	History (Area III-A)	6
Science (Area IV-A)	8	PHED (Area V)	2
MATH 1610 (Area IV-B)	3	MATH 2020 or 1810	3
PHED (Area V)	2	ACTG 2110, 2120	6
ECON 2410 (Area III-B), 2420	6	Non-business electives	6
Gen. Studies (Area I-B)	3	Q M 261	3
Gen. Studies (Area II-B)	3		32
	34		

JUNIOR

INFS 3100	3	SENIOR	
ECON 3510, 4570	6	Economics electives	12
Q M 3620 or ECON 4620	3	Non-business electives	3
ECON 3210, FIN 3010	6	B AD 4980	3
MGMT 3610, 3620	6	Electives	12
BMOM 3510	3		30
BLAW 3400	3		
MKT 3820	3		
Economics elective	3		
	36		

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 56). 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.

Required Program for the B.S. in Economics

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
UNIV 1010	3	History (Area III-A)	6
Science (Area IV-A)	8	PHED (Area V)	2
MATH 1610 (Area IV-B)	3	MATH 2020 or 1810	3
PHED (Area V)	2	Q M 2610 or MATH 1530	3
ECON 2410 (Area III-B), 2420	6	Electives	3
Gen. Studies (Area I-B)	3	Non-business electives	9
Gen. Studies (Area II-B)	3		32
	34		
JUNIOR		SENIOR	
Q M 3620 or MATH 2050	3	Economics electives	
ECON 3510, 4570	6	(upper division)	15
Economics elective		Non-business electives*	15
(upper division)	3		30
Electives*	24		
	36		

*Student must complete 48 hours of upper-division courses.

Minor in Economics

A minor in Economics requires a minimum of 18 semester hours. The minor must include ECON 2410, 2420, and at least 12 hours of upper-division courses in economics.

Minor in Industrial Relations

A minor in Industrial Relations must include ECON 4420 and 4510 and MGMT 3610 and 3810. The remaining 6 hours are to be selected from ECON 4490 or 4390 and MGMT 4660 or 4690.

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 158) 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 12 hours of major courses in residence at MTSU.

Lower-Division Program for All Finance Majors

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
UNIV 1010	3	History (Area III-A)	6
Science (Area IV-A)	8	PHED (Area V)	2
MATH 1610 (Area IV-B)	3	ACTG 2110, 2120	6
Gen. Studies (Area I-B)	3	Non-business electives*	6
Gen. Studies (Area II-B)	3	MATH 2020 or 1810	3
ECON 2410 (Area III-B), 2420	6	Q M 2610	3
PHED (Area V)	2		32
	34		

*Students pursuing the Real Estate concentration must take FIN 2450 and 3 hours of non-business electives.

Upper-Division Program, Business Finance Concentration

JUNIOR		SENIOR	
INFS 3100	3	MKT 3820	3
FIN 3010, ECON 3210	6	FIN 4110, 4810, 4860	9
Q M 3620	3	Finance electives	6
MGMT 3610, 3620	6	Economics/Finance elective	3
BMOM 3510	3	Electives	6
ACTG 3020	3	B AD 4980	3
Elective	3		30
FIN 3810, 4010	6		
BLAW 3400	3		
	36		

Upper-Division Program, Insurance Concentration

JUNIOR		SENIOR	
INFS 3100	3	MKT 3820	3
FIN 3010, ECON 3210	6	FIN 4110	3
Q M 3620	3	FIN 4750	3
MGMT 3610, 3620	6	FIN 3660 or 3710, 4710 or 4730*	6
BMOM 3510	3	Insurance elective	3
Electives	6	Finance elective	3
FIN 3610	3	Economics/Finance elective	3
BLAW 3400	3	Elective	6
	33	B AD 498	3
			33

*Students pursuing the CIU should take FIN 3660 and 4710 and students pursuing the CPCU should take FIN 3710 and 4730.

Upper-Division Program, Financial Institution Management Concentration

JUNIOR		SENIOR	
INFS 3100	3	MKT 3820	3
FIN 3010, ECON 3210	6	FIN 4860	3
Q M 3620	3	FIN 4810	3
MGMT 3610, 3620	6	FIN 4360	3
BMOM 3510	3	FIN 4260	3
ACTG 3020 or 3310	3	Electives	9
FIN 3610	3	Economics/Finance elective	3
FIN 3810, 4440	6	B AD 4980	3
BLAW 3400	3		30
	36		

Upper-Division Program, Real Estate Concentration

JUNIOR		SENIOR	
INFS 3100	3	ECON 4500 or GEOL 4120	3
FIN 3010, ECON 3210	6	FIN 4430, 4550	6
Q M 3620	3	FIN 4470 or 4710	3
MGMT 3610, 3620	6	Electives	9
BMOM 3510	3	Finance elective	3
FIN 3810, 4440	6	Economics/Finance electives	3
Non-business elective	3	B AD 4980	3
BLAW 3400	3		30
MKT 3820	3		
	36		

Minor in Finance

A minor in Finance consists of a minimum of 18 semester hours with at least 12 upper-division hours in finance.

Minor in Real Estate

A minor in Real Estate consists of FIN 2450, FIN 3000 or 3010, BLAW 4470, and 9 hours of coursework in real estate approved in advance by the minor advisor.

Minor in Insurance

A minor in Insurance consists of FIN 3610 and 15 hours of coursework in insurance approved in advance by the minor advisor.

Minor in Real Estate/Insurance

A composite minor in Real Estate/Insurance consists of FIN 2450, 3610; MKT 3820; BLAW 447; 3 hours of coursework in insurance; and 3 hours of coursework in real estate approved in advance by the minor advisor.

Courses in Economics [ECON]

General [ECON]

2410 (241) 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 (242) 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 (321) 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 (351) 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 (354) 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 (391) Computer Applications in Economics and Finance. Three credits. (Same as FIN 3910.) Prerequisites: INFS 3100; ECON 2420; FIN 3010 or 3000. Develops ability to employ a computer in economic and financial decision making. Covers spreadsheets, object-relational database management systems, and data warehousing.

3970, 3980 (397,398) 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 may 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 (426) Financial Markets and Institutions. Three credits. (Same as FIN 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.

4440 (444) 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 (447) 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 (457) Managerial Economics. Three credits. Prerequisites: ECON 2420; MATH 1810 or 2020; 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 (462) Econometrics and Forecasting. Three credits. Prerequisites: ECON 2410, 2420; MATH 1810 or 2020; 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.

4660 (466) 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 neo-classical economists; twentieth century contributions.

4890 (489) 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.

4990 (499) 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 (439) 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 (442) 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 (449) 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 (451) 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 (343) 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 (431) 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 (440) 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 (450) 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 (300) 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 (301) 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 (343) 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. Inter-governmental fiscal relations.

3810 (381) Investments. Three credits. Prerequisite: FIN 3010. Introductory survey course focusing on investment markets and instruments. Emphasis on security characteristics, analysis, and valuation.

4010 (401) Intermediate Financial Management. Three credits. Prerequisites: FIN 3010; MATH 1810 or 2020; 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 (411) 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 (439) 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 (481) Portfolio Theory and Management. Three credits. Prerequisites: FIN 3810; MATH 1810 or 2020; 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 (486) International Financial Management. Three credits. Prerequisite: FIN 3010. 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 (426) 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 (436) 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 (245) 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 (443) 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 (444) 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 (447) 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 (451) 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 (455) 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 (459) 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 (361) 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 (366) 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 (371) 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 (471) 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 (473) 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 (475) 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 (479) 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 (201) 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 (391) Computer Applications in Economics and Finance.** Three credits. (Same as ECON 3910.) Prerequisites: INFS 3100; ECON 2420; FIN 3010 or 3000. Develops ability to employ a computer in economics and financial decision making. Covers spreadsheets, object-relational database management systems, and data warehousing.
- 3970, 3980 (397, 398) 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 may 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 (431) 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 (489) 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 (491) Futures and Options.** Three credits. Prerequisites: FIN 3000 or 3010; junior standing. Commodity and financial derivatives. Discusses functions of markets, institutional arrangements, mechanics of trading, pricing of contracts, risk management, speculation, and hedging.
- 4990 (499) 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

Jill Austin, Chair
Business and Aerospace Building N121D

Bullington, Festervand, Foote, Gilbert, Graeff, Harmon, Hart, Hill, Howard, Ingram, Inks, Jones, Kemp, Kethley, Mayo, Moser, Mpoyi, Mullane, Peters, Phillips, Roy, Singer, Sokoya, Tang, E. Thomas, J. Thomas, Tillery, Warren

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.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

Major in Business Administration

A major in Business Administration consists of 24 semester hours selected from the following:

- I. Financial Analysis (6 hours)**
 ACTG 3020, 3110, or 3310 (3)
 FIN 3810 or 4110 (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 Marketing electives except 3970/3980, 4990, or 4950

IV. Business Environment (6 hours)

BLAW 3430, 3450, 3460, 3480, 4490, or 4500 (3)
MGMT OR MKT 4710 or ECON 4440 (3)

Required Program***FRESHMAN**

ENGL 1010, 1020 (Area I-A)	6	SOPHOMORE	ENGL 2030, 2--- (Area II-A)	6
UNIV 1010	3		History (Area III-A)	6
Science (Area IV-A)	8		ACTG 2110, 2120	6
MATH 1610 (Area IV-B)	3		ECON 2410 (Area III-B), 2420	6
MATH 2020 or 1810			Q M 2610	3
(Area IV-B)	3		PHED (Area V)	2
Gen. Studies (Areas I-B, II-B)	6		Non-business elective	3
Non-business elective	3			32
PHED (Area V)	2			
	34			

JUNIOR

INFS 3100	3	SENIOR	Major electives	21
MGMT 3610, 3620	6		ECON 4570	3
Q M 3620	3		Economics or Finance elective	3
MKT 3820	3		Elective	3
BMOM 3510	3		B AD 4980	3
BLAW 3400	3			33
FIN 3010	3			
MGMT 3890 or 4820 or MKT 3930	3			
Major elective	3			
ECON 3210	3			
	33			

*The 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, 12 of which must be in residence at MTSU, and includes a Business Administration minor. Course requirements for the major are listed on page 166.

Minor in Entrepreneurship

A minor in Entrepreneurship consists of the following 21 hours: BMOM 1400, 2900; ACTG 3000 (or 2110 and 2120); FIN 3000 or 3010; MGMT 3610, 4920; and MKT 3820.

Major in Management

A major in Management consists of 24 hours of management courses. All Management majors must take a minimum of 12 hours of 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.

Required Program***FRESHMAN**

ENGL 1010, 1020 (Area I-A)	6	SOPHOMORE	ENGL 2030, 2--- (Area II-A)	6
UNIV 1010	3		History (Area III-A)	6
Science (Area IV-A)	8		ACTG 2110, 2120	6
MATH 1610 (Area IV-B)	3		ECON 2410 (Area III-B), 2420	6
MATH 2020 or 1810			Q M 2610	3
(Area IV-B)	3		PHED (Area V)	2
Gen. Studies (Areas I-B, II-B)	6		Non-business elective	3
Non-business elective	3			32
PHED (Area V)	2			
	34			

JUNIOR

INFS 3100	3	SENIOR	ECON 3210 or BMOM 4510	3
MGMT 3610, 3620, 3810	9		MGMT 3640, 4710	6
MKT 3820	3		FIN 3010, 4110	6
ACTG 3020 or 3310	3		Elective	3
Q M 3620	3		Management electives	9
BLAW 3400	3		Non-business elective	3
BMOM 3510	3		B AD 4980	3
Management electives	6			33
	33			

*The program includes a Business Administration minor.

Minor in Management

A minor in Management consists of ACTG 3000 (or 2110 and 2120), MGMT 3610 and 3010 or 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.

Major in Marketing

A major in Marketing consists of 27 hours of marketing courses. All Marketing majors must take a minimum of 12 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, 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, 3900, 3920, 4170, 4950. Students interested in careers in business-to-business marketing are encouraged to choose their marketing electives from the following list: MKT 3840, 3860, 3870, 3950, 3960, 4810, and 4950.

Required Program***FRESHMAN**

ENGL 1010, 1020 (Area I-A)	6
UNIV 1010	3
Science (Area IV-A)	8
MATH 1610 (Area IV-B)	3
MATH 2020 or 1810 (Area IV-B)	3
Gen. Studies (Areas I-B, II-B)	6
Non-business elective	3
PHED (Area V)	2
34	

SOPHOMORE

ENGL 2030, 2--- (Area II-A)	6
History (Area III-A)	6
ACTG 2110, 2120	6
ECON 2410 (Area III-B), 2420	6
Q M 2610	3
PHED (Area V)	2
Non-business elective	3
32	

JUNIOR

INFS 3100	3
BLAW 3400	3
MKT 3820, 3910	6
MGMT 3610, 3620	6
ACTG 3020 or 3130 or INFS 2200	3
BMOM 3510	3
Q M 3620	3
FIN 3010	3
Marketing elective	3
33	

SENIOR

ECON 3210 or BMOM 4510	3
MKT 3930, 4710, 4890	9
Marketing electives	12
Non-business elective	3
Elective	3
B AD 4980	3
33	

*The program includes a Business Administration minor.

Minor in Marketing

A minor in Marketing consists of MKT 3820, ACTG 2110 or 3000, BLAW 3400 or 3450, 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 course work in marketing at Middle Tennessee State University.

Course in Business Administration [B AD]

4980 (498) 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 (361) 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 (363) 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 (365) New Venture Feasibility Analysis. Three credits. Prerequisites: BMOM 2900 or MGMT 3610; junior standing. An ex-

amination 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 (389) 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 (394) 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 (397, 398) 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 (468) 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 (471) 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 (473) 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 (482) 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 (492) 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 (495) 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.

4990 (499) 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.

Human Resources Management [MGMT]

3810 (381) 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 (449) 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 (450) Employment Discrimination Law. Three credits. (Same as BLAW 4500.) Prerequisite: BLAW 3400. 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 anti-discrimination law.

4510 (451) 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 (464) 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 (465) 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 (466) 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 (469) 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 (483) 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 (301) 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 (362) 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 (364) 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.

3710 (371) Management of Quality. Three credits. Corequisite: MGMT 3620. 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.

3730 (373) Management of Technology. Three credits. Corequisite: MGMT 3620. 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.

3750 (375) Materials Management Systems. 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.

3770 (377) Operations Simulation. Three credits. Corequisite: MGMT 3620. 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.

4610 (461) 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 (470 A-Z) 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 (382) 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 (383) 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 (384) 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 (385) 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 (386) 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.
- 3870 (387) Principles of Transportation.** Three credits. Prerequisite: MKT 3820. Transportation development in the United States and internationally. A historical, economic, and regulatory perspective.
- 3880 (388) 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 (390) 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 (391) 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 (392) 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 regards to personality management, merchandising tie-ins, sports marketing/issues, and film/television distribution.
- 3930 (393) 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 (395) 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 (396) 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 (397, 398) 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 (417) 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 (471) 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 (480) 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 (481) 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 (485) 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 plays, and sales force automation software.
- 4860 (486) 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 (487) 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 (488) 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 (489) Marketing Management. Three credits. Prerequisites: MKT 3820, 3910, 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 are emphasized. (Must be taken in the semester in which the student will graduate.)

4950 (495) 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.

4990 (499) 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.

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.



Department of Criminal Justice Administration

Frank Lee, Chair
Vaughn House 6

Miller, Newman, Powell, Rogers, Selva, Shulman

Courses in the Department of Criminal Justice Administration provide students and practitioners in the criminal justice system the opportunity to obtain a balanced, liberal arts-based education in conformity with the National Crime Commission's recommendations on higher education programs in criminal justice.

The major in Criminal Justice Administration, which leads to the Bachelor of Science degree, offers a strong foundation in the liberal arts, a deep knowledge of behavioral and social sciences, and strong professional growth for those pursuing a career in the criminal justice system.

The department offers a two-year program in law enforcement which leads to the Associate in Applied Science (A.A.S.) degree. The minor in Criminal Justice Administration is also available.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

Major in Criminal Justice Administration

Requirements for the major in Criminal Justice Administration include

- 33 semester hours of criminal justice courses including CJA 1100, 2200, 2400, 2600, 3400, and 18 hours of electives;
- a minor in Psychology which must include PSY 1410, 1420, 3020, 3230, 4120, and 4220;
- 9 hours of political science;
- SOC 1010, 4300, 4540;

An additional 9 hours in either sociology or political science is recommended to satisfy the requirements for the second minor.

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	
English (Area I-A)	6	English (Area II-A)	6
Science (Area IV-A)	8	History (Area III-A)	6
SOC 1010	3	PHED (Area V)	2
CSCI 1000 or equivalent	1	Gen. Studies (Area II-B)	3
PHED (Area V)	2	P S 1010, 2010, or 2440 (Area III-B)	3
Gen. Studies (Area I-B)	3	CJA 2400, 2600	6
CJA 1100, 2200	6	Mathematics (Area IV-B)	3
PSY 1410, 1420	6	Electives as advised	4
	35		33

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 electives. CJA 4300 may **not** be used for the 9 hours of electives, but may be taken by minors.

Associate in Applied Science in Law Enforcement

Open to any person interested in formal preparation for a career in law enforcement, the Associate in Applied Science in Law Enforcement program consists of 65 hours of academic work and is designed as a two-year degree. Requirements are

ENGL 1010 and 1020, 6 hours
 BIOL 1030 or PSCI 1030, 4 hours
 Political Science, 9 hours
 SOC 1010, 4300, 4540, 9 hours
 PSY 1410, 1420, 3230, 4120, 12 hours
 PHED or Military Science, 4 hours
 CJA 1100, 2200, 3230, 3400, plus an additional 9 hours in CJA to be selected from the following: CJA 2900, 4220, 4260, 4330, 4530—21 hours

Students who wish to continue the above program to a bachelor's degree may do so with a major in Criminal Justice Administration or other appropriate field.

Courses in Criminal Justice Administration [CJA]

1110 (110) 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 (220) 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 (240) 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 (260) Correctional Procedures. 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 (290) 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—approximately \$300 per week for eight weeks. 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.
- 3220 (322) 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 (323) 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 (325) 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 (340) 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 (363) Community-Based Treatment of Offenders.** 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 (370) 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.
- 3900 (390) 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 (422) 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 (426) 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 (430) Law Enforcement Internship.** Nine credits. (Open only to pre-service seniors, e.g., those preparing for a career in law enforcement who are not currently employed by a law enforcement agency and restricted to Criminal Justice Administration majors and minors. Permission of instructor required.) Field placement in a law enforcement agency to provide practical understanding and experience in the field. A minimum of 320 clock hours required.
- 4330 (433) 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.
- 4500 (450) 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 (453) 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 (475) 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 (480) 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 (485) 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 (486) 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 (487) 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 (490) 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

James Huffman, Interim Chair
Jones Hall 325

Bonner, Bullen, Craig, Eaker, Embry, Grimes, Hausler, Hayes, Keese, Milligan, 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.

Minor in Secondary Education

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 must be earned in order to proceed to YOED 3100.

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 (111) Education as a Profession.** Three credits. Analysis of current school systems and the development of their common features including historical background, legal issues, curricular patterns, organization, and administration. Designed to assist the prospective teacher in evaluating personal qualifications in relation to professional demands.
- 2110 (211) Educational Psychology.** Three credits. Physical, mental, social, and emotional development of the human organism from birth to maturity; learning theory; motivating and facilitating learning processes in school settings. A tutorial assignment in the public school required.
- 3350 (335) 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 (305) 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.
- 3100 (310) 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.
- 4000 (400) Managing the Classroom for Instruction.** Three credits. Prerequisite: Admission to teacher education program. Required for student teaching. 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 (411) Directed Teaching, Grades 7-12.** 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.
- 4510 (451) 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 (322) Technology in Teaching.** Three credits. Prerequisite: Admission to teacher education program. Use of selected hardware and software in the teaching/learning processes. The computer and selected media delivery systems for teaching and learning along with the design and creation of inexpensive teaching and learning materials.
- 4100 (410) 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 (421) 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 (426 A-Z) 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 (415) 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 (416) 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

Race Bergman, Interim Chair
Jones Hall 223

Alexander, Babb, Bertrand, Burriss, Calder, Campbell, Crews, Gower, Higdon, Jones, Manson, Means, Moore, Ring, Shaffer, Solley, Trent, 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: either grades K-8 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 should consult with their assigned advisors before each registration. 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.

Major in Interdisciplinary Studies

Designed to prepare teachers for elementary schools, the major in Interdisciplinary Studies requires courses which satisfy the requirements for General Studies, Interdisciplinary Studies major, professional education, and enhanced student teaching as follows:

General Education Requirements

The following courses are required in addition to the General Studies requirements as described on pages 59-61.

ART 2210, 3200, 6 hours, Area II-B

GEOG 2000, 3 hours, Area III-B

GEOL 1030 and 1031, 4 hours

HIST 2010 or 2020, 3 hours

HIST 2030, 3 hours

MUED 1210, 3210, 6 hours, Area II-B

HLTH 4300, 3 hours

PHED 3430 (not required for 5-8 emphasis), 2 hours

Interdisciplinary Studies Major Requirements**Grades K-8 Level**

6 hours of the same foreign language
 BIOL 3000 Life Science for Elementary Teachers, 4 hours
 CDFS 3310 Human Development II, 3 hours, OR
 PSY 4190 Child Psychology, 3 hours, OR
 PSY 4210 Adolescent Psychology, 3 hours
 CDIS 3250 Speech and Language Development, 3 hours
 COMM 4560 Intercultural Communication, 3 hours
 ENGL 3330 Southern Literature, 3 hours
 ENGL 3600 Children's Literature, 3 hours, OR
 LIBS 4150 Books and Media for Children, 3 hours
 ENGL 4510 Modern English Grammar and Usage, 3 hours
 H SC 4410 Consumer Economics, 3 hours
 HIST 1110 Survey World Civilization I, 3 hours, OR
 HIST 1120 Survey World Civilization II
 MATH 1410 Concepts and Structure of Elementary School
 Mathematics, 3 hours
 MATH 1420 Informal Geometry, 3 hours
 PSCI 4030 Experimental Physical Science, 4 hours*

Grades 5-8 Level

ANTH 2010 Cultural Anthropology, 3 hours
 BIOL 3000 Life Science for Elementary Teachers, 4 hours
 COMM 4560 Intercultural Communication, 3 hours
 ENGL 3330 Southern Literature, 3 hours
 ENGL 3800 Literature for Adolescents, 3 hours, OR
 LIBS 4160 Books and Media for Young People and Adults, 3 hours
 ENGL 4510 Modern English Grammar and Usage, 3 hours
 HIST 1110 Survey World Civilization I, 3 hours, OR
 HIST 1120 Survey World Civilization II
 HIST 2010 Survey of United States History I, 3 hours, OR
 HIST 2020 Survey of United States History II, 3 hours
 H SC 4410 Consumer Economics, 3 hours
 MATH 1410 Concepts and Structure of Elementary School
 Mathematics, 3 hours
 MATH 1420 Informal Geometry, 3 hours
 MATH 4010 Selected Topics in Elementary Mathematics, 3 hours
 P S 2020 State and Local Government, 3 hours
 PSCI 4030 Experimental Physical Science, 4 hours*
 PSY 4210 Adolescent Psychology, 3 hours

*PSCI 1030 is a prerequisite for PSCI 4030.

Professional Education**Grades K-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 3300 Instructional Design and Technology in the
 Elementary School, 3 hours
 ELED 3050 Creating Learning Environments K-8, 3 hours
 ELED 3150 Mathematics Methodology, 3 hours
 ELED 4010 Introduction to Language and Literacy in the
 Elementary School, 3 hours
 ELED 4020 Language and Literacy in the Elementary Grades,
 K-8, 3 hours
 ELED 4350 Theory to Practice, 3 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 3330 Instructional Design and Technology in the
 Middle Grades, 3 hours
 ELED 4030 Introduction to Literacy in the Middle Grades,
 5-8, 3 hours
 ELED 4040 Literacy Instruction in the Middle Grades, 5-8, 3 hours
 ELED 4400 Middle School Instruction, 3 hours

Enhanced Student Teaching

ELED 4110 Directed Teaching, Grades K-8, 12 hours

Major in Special Education

The major in Special Education requires 136 semester hours including courses which satisfy the General Studies 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.

Enhanced General Education Requirements**All Special Education Majors**

The following courses are required in addition to the General Studies requirements as described on pages 59-61.

BIOL 3000 Life Science for Elementary Teachers, 4 hours
 ENGL 3600 Children's Literature, 3 hours, OR
 LIBS 4150 Books and Media for Children, 3 hours
 HLTH 3310 Health Problems of Exceptional Children, 3 hours
 HLTH 3300 First Aid and Safety Education, 3 hours, OR
 CPR certification and electives in arts and sciences
 MATH 1410 Concepts and Structure of Elementary School
 Mathematics, 3 hours
 MATH 1420 Informal Geometry, 3 hours

Special Education Major Requirements**Modified Program, K-12**

CDFS 3330 Dynamics of Interpersonal Relationships, 3 hours
 CDFS 4350 Parenting, 3 hours
 PSY 2180 Thinking: Intelligence and Creativity, 3 hours
 PSY 4190 Child Psychology, 3 hours
 PSY 4210 Adolescent Psychology, 3 hours
 PSY 4720 Multicultural Perspectives in Psychology and Education,
 3 hours
 READ 4130 Corrective Reading, 3 hours
 SPED 3010 Survey of the Exceptional Child, 3 hours
 SPED 3210 Practicum in Special Education (Resource Room),
 3 hours*
 SPED 4240 Methods and Techniques of Behavior Management,
 3 hours*
 CDIS 3250 Speech and Language Development, 3 hours
 S W 4440 Social Work with the Disabled Individual, 3 hours

Comprehensive Program, K-12

CDFS 3330 Dynamics of Interpersonal Relationships, 3 hours
 CDFS 4350 Parenting, 3 hours
 PHED 3950 Adapted Physical Activity, 3 hours
 PHED 4910 Kinesiology, 3 hours
 PSY 4190 Child Psychology, 3 hours
 PSY 4210 Adolescent Psychology, 3 hours
 PSY 4720 Multicultural Perspectives in Psychology and Education,
 3 hours
 SPED 3010 Survey of the Exceptional Child, 3 hours
 SPED 3220 Practicum in Special Education (Self Contained),
 3 hours*
 SPED 4240 Methods and Techniques of Behavior Management,
 3 hours*
 CDIS 3250 Speech and Language Development, 3 hours
 S W 4440 Social Work with the Disabled Individual, 3 hours

Professional Education

Modified Program, K-12

- ELED 3150 Mathematics Methodology, 3 hours
- ELED 3300 Instructional Design and Technology in the Elementary School, 3 hours
- ELED 4010 Introduction to Language and Literacy in the Elementary School, 3 hours
- ELED 4020 Language and Literacy in the Elementary Grades, K-8, 3 hours
- FOED 1110 Education as a Profession, 3 hours
- FOED 2110 Educational Psychology, 3 hours
- SPED 3430 Characteristics of Mildly Disabled Children, 3 hours*
- SPED 4150 Techniques, Methods, and Materials in Special Education (Mildly Disabled), 3 hours*
- SPED 4160 Educational Assessment of Exceptional Children, 3 hours*

Comprehensive Program, K-12

- ELED 4010 Introduction to Language and Literacy in the Elementary School, 3 hours*
- ELED 3150 Mathematics Methodology, 3 hours*
- ELED 3300 Instructional Design and Technology in the Elementary School, 3 hours
- ELED 4020 Language and Literacy in the Elementary Grades, K-8, 3 hours
- FOED 1110 Education as a Profession, 3 hours
- FOED 2110 Educational Psychology, 3 hours
- SPED 3440 Characteristics of Severely/Profoundly Disabled Children, 3 hours*
- SPED 4140 Techniques, Methods, and Materials in Special Education (Severely/Profoundly Disabled), 3 hours*
- SPED 4160 Educational Assessment of Exceptional Children, 3 hours*

*Must be admitted to teacher education program before taking course

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†

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
FOED 1110	3	FOED 2110	3
BIOL 1030 (Area IV-A)	4	SPED 3010	3
GEOL 1030 or PSCI 1030	4	HIST 2010, 2020, or 2030 (Area III-A)	6
ELED 3300	3	BIOL 3000	4
COMM 2200 or 4000 (Area I-B)	3	MATH 1010	3
MATH 1410, 1420	6	HLTH 3300 (Health)	3
PSY 2180	3	Gen. Studies (Area II-B)	3
HLTH 3110 (Health)	3	Gen. Studies (Area III-B)	3
PHED Activity courses	2		34
	37		

JUNIOR

SPED 3210, 3430, 4160*	9	SPED 4150, 4240*	6
ELED 4010, 4020	6	READ 4130*	3
ELED 3150	3	CDIS 3250	3
ENGL 3600 or L S 4150	3	CDFS 4350	3
PSY 4190, 4210	6	PSY 4720	3
S W 4440	3	SPED 4350* (Student Teaching Modified)	12
CDFS 3330	3		30
PHED activity courses or PHED 2100 (Health)	2		
	35		

*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.

Recommended Curriculum - Comprehensive†

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
FOED 1110	3	FOED 2110	3
BIOL 1030 (Area IV-A)	4	SPED 3010	3
GEOL 1030 or PSCI 1030	4	HIST 2010, 2020, or 2030 (Area III-A)	6
ELED 3300	3	BIOL 3000	4
COMM 2200 or 4000 (Area I-B)	3	MATH 1010	3
MATH 1410, 1420	6	HLTH 3300 (Health)	3
HLTH 3110 (Health)	3	PHED activity courses or PHED 2100 (Health)	2
PHED Activity courses	2	Gen. Studies (Area III-B)	3
Gen. Studies (Area II-B)	3		33
	37		

JUNIOR

SPED 3220, 3440, 4160*	9	SPED 4140, 4240*	6
ELED 4010, 4020	6	PHED 4910	3
ELED 3150	3	CDIS 3250	3
ENGL 3600 or LIBS 4150	3	CDFS 4350	3
PSY 4190, 4210	6	PSY 4720	3
S W 4440	3	SPED 4320* (Student Teaching Comprehensive)	12
CDFS 3330	3		30
REC 4510	3		
	36		

*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 a minimum of 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 (100) 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 (305) Creating Learning Environments K-8. Three credits. Design, instruction, and evaluation of an integrated reflective curriculum in the elementary grades. Classroom experiences provided.

3070 (307) Creating Learning Environments 5-8. Three credits. 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 (315) 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 (330) 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 (333) 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 (400) 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 (401) Introduction to Language and Literacy in the Elementary School.** Three credits. Prerequisites: Admission to teacher education program; ELED 3050. Develops an understanding of the acquisition and development of language and literacy and of the theories behind the teaching of language and literacy; promotes lifelong literacy skills.
- 4020 (402) Language and Literacy in the Elementary Grades, K-8.** Three credits. Prerequisites: Admission to teacher program; ELED 3050. Introduces various strategies and techniques for teaching and assessing literacy (reading and writing) in the elementary school.
- 4030 (403) Introduction to Literacy in the Middle Grades, 5-8.** Three credits. Prerequisites: Admission to teacher education program; ELED 3070. Introduces preservice teachers to the concept of literacy as it relates to middle school learners. The preservice teacher will gain an understanding of language and literacy in the middle school.
- 4040 (404) Literacy Instruction in the Middle Grades, 5-8.** Three credits. Prerequisites: Admission to teacher education; ELED 3070. Introduces various strategies and techniques for teaching and assessing literacy (reading and writing) in the middle school.
- 4110 (411) Directed Teaching, Grades K-8.** Twelve credits. Full-day supervised teaching experience of 15 weeks duration in a public school classroom. Pass/Fail.
- 4260 (426 A-Z) 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 (435) Theory to Practice.** Three credits. Prerequisite: Completed or presently enrolled in all methods courses. Strategies and techniques for guiding the learning of the young child. Development and use of materials in primary and elementary classrooms with emphasis on explanation and experimentation. Laboratory work and weekly seminar.
- 4400 (440) Middle School Instruction.** Three credits. Prerequisites: Admission to teacher education program; ELED 3070. Introduces strategies to teach children in the upper elementary and middle grades. Practicum experiences required.
- 4510 (451) 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 (334) 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.
- 4130 (413) Corrective Reading.** Three credits. Prerequisite: Admission to teacher education. The application of diagnostic and remedial skills in the solution of problems related to reading level, rate, comprehension, and other difficulties in the elementary classroom.
- 4460 (446) 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 (301) 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 (321) 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 (322) 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 (343) 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 (344) Characteristics of Severely/Profoundly Disabled Children.** Three credits. Prerequisites: Admission to teacher education; SPED 301. In-depth study of children with severe/profound disabilities. Includes ways to set up an instructional program for teaching severely/profoundly disabled.

- 4140 (414) Techniques, Methods, and Materials in Special Education (Severely/Profoundly Disabled).** Three credits. Prerequisites: Admission to teacher education; SPED 3440. A practical application of special education techniques and methods for teaching children with severe disabilities. Includes curriculum planning, methods and materials, data collection, and classroom management for the student functioning at the severe/profound levels.
- 4150 (415) 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 (416) 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.
- 4240 (424) 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.
- 4260 (426 A-Z) 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.
- 4320 (432) 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 (435) 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 (436) 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.
- 4510 (451) 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

Martha Whaley, Chair
Murphy Athletic Center 111

Armstrong, Bartley, Bennett, Caputo, Chambers, Colclough, Cunningham, Edwards, Ellis, Farley, Fiveash, Frauman, Green, Guinn, Hayes, Herzer, Herzog, Holland, Jubenville, Kerr, Kisse, Lewis, MacBeth, McClellan, McGuire, Martin, O'Hara-Murdock, Nance, Neal, Perry, Peterson, Robins, Roth, Ryan, Scarlett, Shelar, Short, Smith, Warmley, Weatherby, Whitehill, Wiel, 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.

Through the basic instructional program, students are given the opportunity to meet part of their General Stud-

ies requirements by selecting activities of interest to them in which they will learn the fundamental skills and techniques that will provide a basis for future activity or leisure pursuits.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

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. These activity courses can be used to fulfill General Studies requirements. 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 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
BIOL 1030 (Area IV-A)	4	HIST 2010, 2020 (Area III-A)	6
Science (Area IV-A)	4	PHED 3720, 3740, 3780	8
PHED 2100, 3300, 3430		Gen. Studies (Area II-B)	3
3850	10	SPED 3010	3
Gen. Studies (Area III-B)	3	Math (Area IV-B)	3
FOED 1110, 2110	6	PHED activity (Area V)	2
PHED activity (Area V)	2	COMM 2200 (Area I-B)	3
	35		34
JUNIOR		SENIOR	
BIOL 2030	3	PHED 4820, 4910	6
PHED 3400, 3750, 3950,		Minor	9
4340, 4810	15	YOED 4000	3
SPSE 3220	3	YOED 4110	12
YOED 3050	3		30
Minor	9		
	33		

Physical Education—Persons who wish to pursue a non-teaching career may, in consultation with the assigned advisor, select two minors appropriate for realizing a professional goal.

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 requires N FS 1240, 3280; BIOL 2010, 2020; HUM 2130; HLTH 2310, 3110; ATHT 2580; ATHC 4060; PHED 1200, 3250, 3300, 3720, 4240, 4250, 4340, 4810, 4830, 4910, and 10 hours of guided electives and a minor to be selected in consultation with advisor; General Studies requirements.

Minor in Physical Education

The minor requires 18 semester hours to include PHED 3300, 3430, and 3850, plus 10 hours selected (in consultation with the assigned advisor) from the following courses: PHED 3400, 3720, 3740, 3750, 3780, 3950, 4340, 4810, 4820, 4830, and 4910.

Minor in Athletic Coaching

The minor requires 18 semester hours including ATHT 2580; ATHC 4690, 4800, and either PHED 4820 or ATHC 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 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
BIOL 1030 (Area IV-A)	4	HIST 2010, 2020, or	
PSCI 1030 (Area IV-A)	4	2030 (Area III-A)	6
HLTH 3110	3	N FS 1240	3
Gen. Studies (Area II-B)	3	HLTH 3110	3
Gen. Studies (Area III-B)	3	MATH 3000 or 1410	3
COMM 2200 (Area I-B)	3	CSCI 1000	1
HLTH 3300	3	PHED activity (Area V)	2
HLTH 2600	3	Minor (two classes)	6
PHED activity (Area V)	2	HLTH related elective	3
	34		33
JUNIOR		SENIOR	
BIOL 2030	3	Certification/licensure	
HLTH 4340	3	transfer**	33
PHED 3720	3		
PHED 4810	3		
HLTH related electives	9		
Minor (four classes)	12		
	33		

****NOTE:** These courses or their equivalents are required for certificate/licensure in Health Science and Technology: IED 4000, 4030, 4040, and 4060.

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 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
BIOL 1030 (Area IV-A)	4	HIST 2010, 2020, or	
PSCI 1030 (Area IV-A)	4	2030 (Area III-A)	6
HLTH 2310	3	HLTH 3110	3
COMM 2200 (Area I-B)	3	MUS 1030 (Area II-B)	3
SOC 1010 (Area III-B)	3	MATH 1010 (Area IV-B)	3
PHED activity (Area V)	2	PHED activity (Area V)	2
FOED 1110, 2110	6	HLTH 3300	3
N FS 1240	3	SPED 3010	3
	34	YOED 3050	3
			32
JUNIOR		SENIOR	
BIOL 2030	3	HLTH 4260	3
HLTH 4270	3	PHED 4830	3
HLTH 4300	3	YOED 4000	3
HLTH 4340	3	PHED 4810	3
PE minor	15	HLTH 4360	3
HLTH 3310	3	HLTH 4400	3
SPSE 3220	3	PE minor	3
	33	YOED 4110	12
			33

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 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
BIOL 1030 (Area IV-A)	4	HIST 2010, 2020, or	
Science (Area IV-B)	4	2030 (Area III-A)	6
Gen. Studies (Area II-B)	3	N FS 1240	3
Gen. Studies (Area III-B)	3	HLTH 3300	3
COMM 2200 (Area I-B)	3	MATH 1010 or 1710	3
HLTH 2310	3	CSCI 1000	1
HLTH 2600	3	PHED activity (Area V)	2
PHED activity (Area V)	2	Minor classes	6
	31	HLTH related electives	3
			33
JUNIOR		SENIOR	
BIOL 2030	3	PHED 4810	3
HLTH 4340	3	HLTH 4270	3
Minor (two classes)	6	HLTH related electives	9
HLTH 4860	3	Minor (three classes)	9
HLTH 4440	3	Internship	12
HLTH related electives	6		36
General electives	6		
HLTH 4360	3		
	33		

Minor in Health

The minor in Health requires 18 semester hours including HLTH 2310, 3110, 3300, 4400, plus 6 hours of electives to be chosen 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 18 semester hours to include HLTH 3110, 3300; PHED 3780, 3850, plus 7 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 core which includes REC 3010, 3380, 3520, 3530, 3540, 3560, 4540, 4660, 4890, and 4900 (a nine-hour internship). Students may choose from concentrations in Recreational Therapy, Outdoor Recreation, or Recreation Administration. An 18-21 hour minor of the student's choice is also required.

Concentration: Recreational Therapy

Persons choosing the Recreational Therapy concentration find careers in hospitals, rehabilitation centers, geriatric/pediatric settings, or in any program serving persons with disabilities. Students graduating with this concentration are 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 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
BIOL 1030 (Area IV-A)	4	HIST 2010, 2020, or	
PSCI 1030 or GEOL 1030		2030 (Area III-A)	6
(Area IV-A)	4	CDFS 3340	3
PHED activity (Area V)	1	MATH 1710, 3000, or	
COMM 2200 or	3	1530	3
3230 (Area I-B)	3	PHED activity (Area V)	1
Gen. Studies (Area II-B)	3	REC 3380, 3520, and 3530	9
Gen. Studies (Area III-B)	3	Electives	5
REC 3010	3		33
Electives	6		
	33		
JUNIOR		SENIOR	
BIOL 2030	3	Minor	12
PSY 3230	3	REC 4510, 4540, 4660,	
REC 3540, 3560, 4499,		4890 (1 hr.), and	
and 4500	12	4480 or 4520	13
PHED activity (Area V)	1	REC 4900 (Internship)	9
Minor	6	PHED activity (Area V)	1
Electives	6		35
	31		

Concentration: Outdoor Recreation

Persons choosing the Outdoor Recreation concentration might find employment with various natural resource-based agencies such as municipal, state, and federal land management agencies (e.g., city, state, and national parks), organized youth and adult day and residential camps, and commercial and resort organizations that offer natural resource-based programs and services. Ongoing consultation with an advisor is essential.

Recommended Curriculum—Outdoor Recreation

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
BIOL 1030 (Area IV-A)	4	HIST 2010, 2020, or 2030 (Area III-A)	6
PSCI 1030 or GEOL 1030 (Area IV-A)	4	MATH 1710, 1010, or 1530	3
PHED activity (Area V)	1	REC 3380, 3520, 3530	9
COMM 2200 or 3230 (Area I-B)	3	PHED activity (Area V)	1
Gen. Studies (Area II-B)	3	Minor	3
Gen. Studies (Area III-B)	3	Electives	6
REC 3010	3		34
Elective	3		
	30		

JUNIOR		SENIOR	
Electives	6	Electives	5
REC 3370, 3540, 3560	9	Select one: BIOL 3070; HIST 4640; or PHIL 4800	3
Select one: GEOL 4310, 4480; EST 2810; or ABAS 3630	3	REC 4901 (Internship)	9
Select two: REC 3360, 3570, 4570, 3390; HLTH 3300	6	REC 4580, 4660, 4540, 4890	10
PHED activity (Area V)	1	PHED activity (Area V)	1
Minor	6	Minor	9
	31		37

Concentration: Recreation Administration

Persons choosing the concentration in Recreation Administration prepare for leadership opportunities in a variety of recreation and leisure services such as public park and recreation agencies, youth service agencies, military recreation, tourism, and commercial recreation. Ongoing consultation with an advisor is essential.

Recommended Curriculum—Recreation Administration

FRESHMAN		SOPHOMORE	
ENGL 1010, 1020 (Area I-A)	6	ENGL 2030, 2--- (Area II-A)	6
BIOL 1030 (Area IV-A)	4	HIST 2010, 2020, or 2030 (Area III-A)	6
PSCI 1030 or GEOL 1030 (Area IV-A)	4	Gen. Studies (Area II-B)	3
PHED activity (Area V)	2	PHED activity (Area V)	2
COMM 2200 or 3230 (Area I-B)	3	REC 3010, 3380, 3520, and 3530	12
Gen. Studies (Area III-B)	3	Minor	3
MATH (Area IV-B)	3		32
Electives	6		
	31		

JUNIOR		SENIOR	
PSY 2210 or 4380	3	REC 4540, 4600, 4601, 4660, and 4890	10
BMOM 2900 or MGMT 3810 or MKT 3820	3	Minor	6
REC 3540, 3560	6	Recreation electives	6
Recreation elective	3	REC 4902 (Internship)	9
Electives	8	Electives	6
Minor	9		37
	32		

Minor in Recreation

The minor in Recreation requires 18 semester hours including REC 3010, 3530, 3560, and 4540, plus 6 hours of electives in recreation course offerings.

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 132 credit hours, which include General Studies, athletic training core courses, and a Science minor and Physical Education/Health minor. Students enter the program as pre-athletic training majors and must complete the first year of pre-athletic training curriculum consisting of General Studies and athletic training prerequisite courses. Students then make formal application for admission to the last three years, which includes 38 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 2580 and 2590; HLTH 3300; 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, 3020; PHYS 2020, 2021; N FS 1240; PHED 4830, 4910; ATHC 4060; and FOED 2110 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 (Area I-A)	3	ENGL 1020 (Area I-A)	3
HLTH 3300	3	ATHT 2580	2
BIOL 1110 or 1030 (Area IV-A)	4	ATHT 2590	3
MATH 1710	3	PSY 1410	3
COMM 2200 or 3230 (Area I-B)	3	BIOL 2010	4
	16	PHED 1200	1
			16

ADMITTED ATHLETIC TRAINING PROGRAM

SOPHOMORE

FALL		SPRING	
ENGL 2030 (Area II-A)	3	ENGL 2--- (Area II-A)	3
ATHT 3000	2	ATHT 3950	3
BIOL 2020	4	ATHT 3001	2
N FS 1240	3	BIOL 3020	4
HLTH 3110	3	PHED 1300	1
	15	HIST 2010 (Area III-A)	3
			16

JUNIOR

FALL		SPRING	
ATHT 3960	3	ATHT 4960	3
ATHT 3002	2	ATHT 4970	3
PHED 4910	3	ATHT 3003	2
ATHT 4500	3	Gen. Studies (Area II-B)	3
PHYS 2010, 2011	4	PHED activity (Area V)	1
FOED 2110	3	PHYS 2020, 2021	4
	18		16

SUMMER

ATHT 4000	3
ATHT 4430	3
	6

SENIOR

FALL		SPRING	
PHED 4830	3	ATHT 4990	3
PHED 4820	3	ATHC 4060	3
ATHT 4950	3	Minor PE/Health	3
HIST 2020 or 2030 (Area III-A)	3	PHED activity (Area V)	1
PHED 3850	3	PHED 3780	2
		Electives	2
	15		14

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 18 semester hours including either PHED 3300 or ET 4420; SAFE 4320, 4350, 4850, 4870; and either ET 4420 or 4440.



Courses in Physical Education [PHED]

Basic Instructional Program

University graduation requirements for all students include four semesters of physical education or two semesters of physical education and PHED 2100. *Only one physical education activity course (or PHED 2100) may be awarded General Studies credit in a semester.

The physical education activity courses which make up the basic instructional program 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.

Students whose physical limitations prevent them from participating fully in the basic instructional program will be placed in activities commensurate with their abilities.

**This requirement may also be fulfilled by substituting two semesters of band or ROTC for the two hours of physical education. Students who have served on active duty with the armed forces are given credit toward the requirement. One credit is allowed for each six months of service to a maximum of two credits.*

- 1000 (100) Team Games and Conditioning.** One credit.
- 1010 (101) Beginning Folk and Square Dance.** One credit.
- 1020 (102) Beginning Social Dance.** One credit.
- 1040 (104) Beginning Tennis.** One credit.
- 1050, 1060 (105, 106) Adapted Physical Activity.** One credit each.
- 1080 (108) Beginning Bowling.** One credit. Fee required.
- 1100 (110) Beginning Karate.** One credit.
- 1110 (111) Casting and Fishing Techniques.** One credit.
- 1120 (112) Backpacking and Hiking.** One credit.
- 1130 (113) Beginning Bicycling.** One credit.
- 1140 (114) Gymnastics.** One credit.
- 1150 (115) Beginning Badminton.** One credit.
- 1160 (116) Beginning Archery.** One credit.
- 1170 (117) Beginning Racquetball.** One credit.
- 1180 (118) Beginning Aerobics (Walking/Jogging).** One credit.
- 1190 (119) Aerobic Dance.** One credit.
- 1200 (120) Beginning Weight Training.** One credit.
- 1210 (121) Beginning Basketball.** One credit.
- 1220 (122) Beginning Soccer.** One credit.
- 1230 (123) Team Handball.** One credit.
- 1240 (124) Water Aerobics.** One credit. No swimming skills required.
- 1250 (125) Self Defense.** One credit.
- 1260 (126) Intermediate Bicycling.** One credit.
- 1270 (127) Yoga.** One credit.
- 1300 (130) Personal Fitness.** One credit. Basic concepts, techniques, and activities needed to design an individual fitness program.
- 2000 (200) Beginning Wrestling.** One credit.
- 2010 (201) Beginning Modern Dance.** One credit.
- 2020 (202) Beginning Golf.** One credit. Fee required.
- 2030 (203) Tumbling and Trampoline.** One credit.
- 2040 (204) Beginning Swimming.** One credit.
- 2050, 2060 (205, 206) Adapted Physical Activity.** One credit each.
- 2070 (207) Intermediate Swimming.** One credit.
- 2080 (208) Intermediate Modern Dance.** One credit.
- 2090 (209) Intermediate Tennis.** One credit.
- 2100 (310) 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 (211) Basic Horsemanship—Equitation.** One credit.
- 2120 (212) Scuba Diving.** Two credits. Prerequisite: PHED 2070. Students must pass a swimming proficiency test.
- 2130 (213) Basic River Canoeing.** One credit. Prerequisite: PHED 2070. Students must pass a swimming proficiency test.
- 2140 (214) Basic Lifeguarding.** One credit.
- 2150 (215) Synchronized Swimming.** One credit. Prerequisite: PHED 2070.
- 2160 (216) Ballet—Primary.** One credit.
- 2170 (217) Ballet—Intermediate.** One credit.
- 2180 (218) Beginning Jazz Dance.** One credit.
- 2190 (219) Beginning Tap Dance.** One credit.
- 2200 (220) Modern Gymnastics.** One credit.
- 2240 (224) Beginning Roller Skating.** One credit. Fee required.
- 2250 (225) Intermediate Bowling.** One credit. Fee required.
- 2260 (226) Basic Rock Climbing.** One credit.
- 2270 (227) Beginning Volleyball.** One credit.
- 2280 (228) Intermediate Tap Dancing.** One credit.
- 2290 (229) Intermediate Roller Skating.** One credit.

- 2300 (210) Beginning Handball.** One credit.
- 2320 (232) Advanced Weight Training.** One credit.
- 2330 (233) Advanced Karate.** One credit.
- 2340 (234) Aquatic Instructor Certification.** One credit.
- 2350 (235) Intermediate Badminton.** One credit.
- 2360 (236) Intermediate Wrestling.** One credit.
- 2380 (238) Intermediate Jazz Dance.** One credit.
- 2400 (240) Intermediate Handball.** One credit.
- 2410 (241) Beginning Softball.** One credit.
- 2420 (242) Intermediate Golf.** One credit.
- 2430 (305) Advanced Volleyball.** One credit.
- 2440 (307) Advanced Swimming.** One credit.
- 2450 (309) Advanced Tennis.** One credit.
- 3250 (325) Workshops in Wellness.** Three credits. Preparation for conducting workshops in a variety of professional settings.
- 3300 (330) 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 (340) 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 (343) 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 (350) 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 (372) 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 (373) 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 (374) 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 (375) 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 (376) 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 (381) Directing Intramurals.** Two credits. The organization and administration of intramural programs. The student experiences actual participation in developing and supervising intramural activities.
- 3850 (385) 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 (391) Officiating.** Two credits. (Same as ATHC 3910.) Technique and practice in officiating major sports.
- 3950 (395) 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.
- 4240 (424) Principles of Exercise Prescription and Assessment.** Three credits. Prerequisites: PHED 4810, 4830, and 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 (425) Internship in Exercise Science and Health Promotion.** Twelve credits. (Same as 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 (429) 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 (434) 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 (460) 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 (460L) Technology Applications Lab.** Two credits. Corequisite: PHED 4600. Investigation and application of profession-specific software and hardware applications.
- 4700 (470) 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 (481) Measurement and Evaluation.** Three credits. 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 (482) 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.
- 4830 (483) Physiology of Exercise.** Three credits. Prerequisites: BIOL 2030 or 2010 and 2020. Introduction to the 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.
- 4910 (491) Kinesiology.** Three credits. The science of human motion. Emphasis on principles of anatomy, physiology, and mechanics of human activity.
- 4920 (492) Special Problems.** One, two, or three credits. (Same as 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.)
- 3310 (331) 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.
- 3330 (333) 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 (425) Internship in Exercise Science and Health Promotion.** Twelve credits. (Same as 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 (426) 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 (427) Bioethical Issues in Health Education.** Three credits. An analysis of current bioethical issues, problems, needs, trends, and interests in health education.
- 4280 (428) 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 (430) 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 (434) 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.

Courses in Health [HLTH]

- 2310 (231) Community and Public Health.** Three credits. Basic preparation for health educators in community and public health programs with emphasis on identifying and solving problems.
- 2600 (260) 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 (311) Personal Health.** Three credits. Personal health in contemporary society; designed specifically for preparation of health educators.
- 3300 (330) 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.



- 4360 (436) 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 (437) 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 (439) 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 (440) 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 (446) 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 (460) 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 (460L) Technology Applications Lab.** Two credits. Corequisite: HLTH 4600. Investigation and application of profession-specific software and hardware applications.
- 4860 (486) Organization and Administration of Health Education.** Three credits. Administrative theories, program development, scheduling, budgeting, and evaluating health education programs in schools (K-12) and in the community.
- 4900 (490) Certified Health Education Specialist (CHES) Review.** One credit. Responsibilities and competencies on the Certified Health Education Specialist examination.
- 4920 (492) Special Problems.** One, two, or three credits. (Same as 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.)
- 3630 (363) 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 (366) 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.
- 3810 (381) Directing Intramurals.** Two credits. The organization and administration of intramural programs. Actual participation in developing and supervising intramural activities.
- 3910 (391) Officiating.** Two credits. (Same as PHED 3910.) Technique and practice in officiating major sports.
- 4000 (400) 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 (406) 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 (418) 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 (422) Coaching Soccer.** Two credits. Theory and practice of soccer fundamentals as well as introduction of offensive and defensive plays.
- 4600 (460) Advanced Coaching of Football.** Two credits. Philosophies of coaching and a detailed study of the master plan of coaching responsibilities.
- 4620 (462) 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 (464) Coaching of Baseball.** Two credits. Theory and practice in the fundamentals as well as reviewing various systems of types of play.
- 4650 (465) Coaching Cross-Country, Track and Field.** Two credits. Theory and practice in fundamentals and skills.
- 4690 (469) 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 (480) 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 (360) 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 (361) 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 (362) 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.

Courses in Athletic Training [ATHT]

- 2580 (258) Introduction to Athletic Training.** Three credits. Modern principles in the care, prevention, and management of sports injuries.
- 2590 (259) Topics in Athletic Training.** Two 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 (300A) Clinical A in Athletic Training.** Two credits. Prerequisites: ATHT 2580, 2590. Psychomotor skills used in the application of protective 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 (300B) Clinical B in Athletic Training.** Two 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 (300C) Clinical C in Athletic Training.** Two 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 (300D) Clinical D in Athletic Training.** Two 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.
- 3950 (395) 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 (396) 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 (400) 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.
- 4430 (443) 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 (450) 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 (495) Pathology of Sport Illness and Consideration of Special Populations.** Three credits. Pathology of special problems and general medical conditions of athletes and others involved in physical activity. Includes an athletic training field experience.
- 4960 (496) Rehabilitation Techniques.** Three credits. Prerequisites: BIOL 2010, 2020; ATHT 3950, 3960. Methods and techniques in the selection and application of rehabilitation techniques.
- 4970 (497) 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 (499) 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 (300) 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 (301) 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 as career opportunities and areas of service delivery.
- 3360 (336) 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 (337) Principles of Outdoor Recreation.** Three credits. Concepts, principles, and practices in various types of park, recreation, and tourism settings. Emphasis on overall and critical subsystems of the outdoor recreation management system primarily in public land settings.
- 3380 (338) 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 (339) 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 recreation organizations and historical, cultural, and natural resources.
- 3520 (352) 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 (353) 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 (354) 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 (356) 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 (357) 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 (434) 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 (447) 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 (448) 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 (449) 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 (450) 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 (451) 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 (452) 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 (454) 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 (457) 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 (458) 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 (459) 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 (460) 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 (460L) Technology Applications Lab.** Two credits. Corequisite: REC 4600. Investigation and application of profession-specific software and hardware applications.
- 4660 (466) 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 (479) 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 (489) 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 (490A) Internship in Therapeutic Recreation.** 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 (490B) Internship in Outdoor Recreation. 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 (490C) Internship in Recreation. 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 (492) Special Problems. One, two, or three credits. (Same as 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 (432) 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 (435) 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 (485) 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 (487) 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

Dellmar Walker, Interim Chair
Ellington Human Sciences 100

Belcher, Chavetz, Coleman, Colson, Davidson, Detmer, Deveau, Emery, Estes, Harrison, Katz, Keeling, Kelley, Lewis, Manson, Marks, McNaughton, 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 Consumer Services, Family and Consumer Sciences Education, and Child Development and Family Studies; Interior Design; Nutrition and Food Science with concentrations in Dietetics and Food Technology; 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 Studies requirements. Consultation with the assigned advisor is necessary before each registration.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

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: Consumer Services

Career opportunities in the consumer service field include working with businesses, industries, government agencies, and consumer protection agencies in the areas of consumer affairs; consumer information dissemination; product development, testing, and promotion; consumer protection; public relations; and communications.

Required courses include H SC 1010, 1610, 3020, 3430, 4000, 4102, 4410, 4420, 4430, 4450; N FS 1240, 3200, 3210; TXMD 3100; CDFS 3320, 3330, 3340; IDES 4620; 3 hours human sciences elective; CSCI 1150 or INFS 2200; COMM 2150 or BMOM 3510; MKT 3910 or BLAW 3400 or 3450; an approved minor; General Studies requirements.

Recommended Curriculum

FRESHMAN		SOPHOMORE	
English (Area I-A)	6	English (Area II-A)	6
Natural Science (Area IV-A)	8	History (Area III-A)	3
History (Area III-A)	3	Gen. Studies (Area I-B)*	3
PHED (Area V)	2	Gen. Studies (Area II-B)	3
Gen. Studies (Area III-B)*	3	CSCI 1150	3
H SC 1010, 1610; N FS 1240;		Mathematics (Area IV-B)	3
CDFS 3340	10	Human Sciences elective	3
	32	PHED (Area V)	2
		H SC 3020; N FS 3200;	
		CDFS 3320	8
			34
JUNIOR		SENIOR	
COMM 2150 or BMOM 3510	3	H SC 4102, 4430, 4450;	
H SC 3430, 4000, 4410, 4420;		TXMD 3100	15
N FS 3210; IDES 4620;		Minor	12
CDFS 3330	19	Electives	6
Minor	6		33
MKT 3910 or BLAW 3400 or			
3450	3		
Elective	3		
	34		

*Selection of courses depends on minor chosen

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 in family and consumer sciences from an institution approved for the training of teachers in consumer and homemaking education and occupational home economics. 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.

Required courses include ART 1030 and MUS 1030 in the General Studies requirements; H SC 1010, 1610, 3020, 3430, 4000, 4410, 4420; N FS 1240, 3200, 3210; CDFS 3320, 3340, 4340, 4350; FCSE 2510, 3510; TXMD 3100, 3190; IDES 4620. Students must complete a minor in Secondary Education. Occupational endorsements may be added but are not a required part of the major.

Recommended Curriculum

FRESHMAN		SOPHOMORE	
English (Area I-A)	6	English (Area II-A)	6
Natural Science (Area IV-A)	8	Gen. Studies (Area III-B)	3
PHED (Area V)	2	Gen. Studies (Area II-B)	3
FOED 1110	3	Gen. Studies (Area IV-B)	6
H SC 1010, 1610; CDFS 3320;		PHED (Area V)	2
N FS 1240; FCSE 2510	13	History (Area III-A)	6
CSCI 1000 or equivalent	1	Major	6
	33	FOED 2110	3
			35
JUNIOR		SENIOR	
COMM 2200 or 4000	3	SPED 3010	3
FCSE 3510	3	YOED 4000	3
YOED 3050	3	Major	12
SPSE 3220	3	Student Teaching	12
Major	22		30
	34		

Concentration: Child Development and Family Studies

Completion of this program leads to career opportunities with family life education, social service agencies, day care programs (care giving and administration), and senior citizen services; in business as consultants, medical settings as care givers, certified nurses' assistant (CNAs) and/or child life specialists, and as advocates for children and families.

Required courses include H SC 1010, 1610, 3020, 4000, 4101, 4410; CDFS 2350, 3310, 3320, 3330, 3390, 4140, 4300*, 4310, 4340, 4350, 4360 or 3300, 4370, 4380*, 4390, 4391; N FS 1240; required related subjects SOC 3060 or PSY 4470; PSY 4600; 4 hours electives; an approved minor; General Studies requirements.

*NOTE: Students **must** take one practicum (CDFS 4300 or 4380 or 4391) or they may choose to take two. If only one practicum is taken, an alternate course is chosen from H SC 4430, N FS 4210, 4250.

Recommended Curriculum

FRESHMAN		SOPHOMORE	
English (Area I-A)	6	English (Area II-A)	6
Natural Science (Area IV-A)	8	History (Area III-A)	6
PHED (Area V)	2	PSY 4600	3
Gen. Studies (Area I-B)	3	PHED (Area V)	2
PSY 1410 (Area III-B)	3	Mathematics (Area IV-B)	3
H SC 1010, 1610; N FS 1240;		CDFS 3310, 3320, 3330	9
CDFS 2350	10	Gen. Studies (Area II-B)	3
CSCI 1000 or equivalent	1	Elective	3
	33		35
JUNIOR		SENIOR	
H SC 3020, 4000; CDFS 3390,		H SC 4101, 4410;	
4140, 4310, 4340, 4350,		CDFS 4300 or 4380, 4390	15
4360 or 3300, 4370;		SOC 3060 or PSY 4470	3
CDFS 4391, 4380		Minor	12
or H SC 4430 or			30
N FS 4210 or 4250	28-29		
Minor	6		
Electives	1		
	35-36		

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.

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, minors in Human Sciences and either Art or Theatrical Design are required.

Required courses include H SC 1010, 1610, 3020; TXMD 3000, 3070, 3100, 3120, 3130, 3140, 3150, 3170, 3180, 3190, 4110, 4120, 4130, and one course from either TXMD 3160, 4160, 4170; H SC 4000, 4043, 4410; N FS 1240; CDFS 3320; CDFS 3330, 3340, or 4340. Additional requirements include MATH 2130; ETIS 1310; ART 1910 or 1030; CSCI 1000; Art or Theatrical Design minor; General Studies requirements.

Recommended Curriculum

FRESHMAN		SOPHOMORE	
English (Area I-A)	6	English (Area II-A)	6
Natural Science (Area IV-A)	8	History (Area III-A)	6
PHED (Area V)	2	CSCI 1000	1
Gen. Studies (Area III-B)	3	PHED (Area V)	2
H SC 1010, 1610	4	H SC 3020	3
TXMD 3130, 3190	6	TXMD 3070, 3100, 3150	9
Art or Theatrical Design minor	3	ETIS 1310	4
	32	Art or Theatrical Design minor	6
			37

JUNIOR		SENIOR	
Gen. Studies (Area I-B)	3	TXMD 4120, 4130	6
Gen. Studies (Area II-B)	3	H SC 4000, 4410	4
ART 1910 or 1030	3	TXMD 4160	3
MATH 2130 (Area IV-B)	3	CDFS 3320	3
N FS 1240	3	CDFS 3330 or 3340 or 4340	3
TXMD 3000, 3120, 3140, 3180, 4110	15	TXMD 3160 or 4170 or H SC 4043	3
Art or Theatrical Design minor	3	Electives	1-4
	33	Art or Theatrical Design minor	6
			29-32

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, two minors are required: a minor in Human Sciences and in one of the following areas: Business Administration, Management, Marketing, Mass Communication, or Entrepreneurship.

Required courses include H SC 1010, 1610, 3020; TXMD 3070, 3100, 3130, 3160, 3170, 3150 or 3190, 4130, 4150, 4170; H SC 4103 or 6 hours from TXMD 3120, 3140, 4110, 4120, or H SC 4043; H SC 4000, 4410, 4430; IDES 4620;

N FS 1240; CDFS 3320; CDFS 3330, 3340, or 4340. Additional requirements include ACTG 1110 or 2110 or 3000, ART 1030 or 1910, MATH 2130, and CSCI 1150; approved minor; General Studies requirements.

Recommended Curriculum

FRESHMAN		SOPHOMORE	
English (Area I-A)	6	English (Area II-A)	6
Natural Science (Area IV-A)	8	History (Area III-A)	6
PHED (Area V)	2	MATH 2130; CSCI 1150 (Area IV-B)	6
Gen. Studies (Area I-B)	3	ART 1910 or 1030	3
Gen. Studies (Area III-B)	3	H SC 3020	3
Gen. Studies (Area II-B)	3	TXMD 3100; 3150 or 3190	6
H SC 1010, 1610; TXMD 3130	7	CDFS 3320	3
	32	PHED (Area V)	2
			35
JUNIOR		SENIOR	
ACTG 1110 or 2110 or 3000	3	TXMD 3160, 4130, 4150	9
H SC 4410, 4430	6	H SC 4000	1
IDES 4620	3	H SC 4103 or 6 hours from TXMD 3000, 3140, 3180, 4110, 4120, or H SC 4043	6
N FS 1240	3	Minor	9
TXMD 3070, 3170, 4170	7	Electives	6
CDFS 3330, 3340, or 4340	3		
Minor	9		
	34		31

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 4120.

Major in Nutrition and Food Science

Concentration: Dietetics

The Nutrition and Food Science program, Dietetics concentration, is currently granted approval status by the Commission on Accreditation for Dietetics Education of the American Dietetic Association, 216 W. Jackson Blvd., Chicago, IL 60606-6995, (312) 899-4876. The program offers preparation for careers in dietetics as nutritionists, clinical or management dietitians, and dietitians in private practice as consultants. After completing the degree, students receive a verification statement that requirements have been met and may choose a qualifying experience program to complete requirements for taking the national exam to become registered dietitians (R.D.) and licensed dietitians/nutritionists (L.D.N.). Students with degrees in other areas who choose to complete the DPD must take a minimum of 15 hours in nutrition and food science courses at MTSU to include N FS 4200 and 4290. The major in Nutrition and Food Science also offers preparation for careers in community services and positions in business, state, and federal health departments; in food systems management; and in the food industry.

Students who do not plan to pursue a dietetic internship may elect to substitute other courses for N FS 4290 and 4800 with the advice of the academic advisor. Students who elect this substitution will not receive verification statements.

Requirements for the major in Nutrition and Food Science, Dietetics concentration, includes H SC 1010, 1610, 3020, 4000, 4410; N FS 2220, 3200, 3260, 3280, 4200, 4210, 4220, 4240, 4250, 4260, 4270, 4280, 4290, 4800; CDFS 3320 and H SC 4430. Related courses include PSY 3320 or CDFS 3330; MATH 1530; CSCI 1150; SOC 1010; ACTG 1110 or 3000; and a Science minor to include CHEM 1010, 1011, 1020, 1021, 2030, 3530, and BIOL 2230, 3130, and 3140; General Studies requirements.

Recommended Curriculum

FRESHMAN		SOPHOMORE	
English (Area I-A)	6	English (Area II-A)	6
CHEM 1010, 1011, 1020, 1021 (Area IV-A)	8	History (Area III-A)	6
PHED (Area V)	2	PHED	2
H SC 1010, 1610	4	BIOL 2010, 2020	8
N FS 2220	3	Gen. Studies (Area I-B)	3
SOC 1010 (Area III-B)	3	N FS 3200, 3260, 3280	9
Gen. Studies (Area II-B)	2		34
Elective	2		
	30		
JUNIOR		SENIOR	
CSCI 1150	3	CDFS 3330 or PSY 3320	3
MATH 1530 (Area IV-B)	3	ACTG 1110 or 3000	3
CHEM 2030, 3530	8	BIOL 2230	4
H SC 4410	3	H SC 3020, 4000, 4430	7
N FS 4200, 4260, 4270, 4280, 4800	13	N FS 4210, 4220, 4240, 4250, 4290	18
CDFS 3320	3		35
	33		

Concentration: Food Technology

The major in Nutrition and Food Science, Food Technology concentration offers preparation for career opportunities in the foods-related industry in jobs such as food processing, food marketing, quality control, and food systems management.

Requirements for the major in Nutrition and Food Science, Food Technology concentration and required minor in Human Sciences include N FS 2220, 3200, 3260, 3280, 4220, 4240, 4260, 4270, 4280; ABAS 4810, 4820, 4830; BIOL 2230; CHEM 1010, 1011, 1020, 1021, 2030; H SC 1010, 1610, 3020, 4000, 4410, 4430; CDFS 3320; CSCI 1000; six hours to be chosen from H SC 4105, 4450; ABAS 3810, 4100, 3490, 4200; BIOL 4510; or MKT 3820. General Studies requirements. A second minor of 18 hours is chosen with the academic advisor from the suggested areas of Agribusiness, Journalism, or Management and Marketing.

Recommended Curriculum

FRESHMAN		SOPHOMORE	
English (Area I-A)	6	English (Area II-A)	6
Gen. Studies (Area I-B)	3	HIST 2010, 2020 (Area III-A)	6
Gen. Studies (Area II-B)	3	PHED	2
BIOL 1030 (Area IV-A)	4	N FS 3200, 3260, 3280	9
PHED (Area V)	2	CDFS 3320	3
CSCI 1000	1	CHEM 1020, 1021 (Area IV-A)	4
N FS 2220	3	Minor	3
H SC 1010, 1610	4		33
Gen. Studies (Area III-B)	3		
CHEM 1010, 1011 (Area IV-A)	4		
	33		
JUNIOR		SENIOR	
ABAS 4810, 4820, 4830	9	H SC 4410, 4000	4
N FS 4260, 4220, 4280	9	MATH 1010 or 1530 (Area IV-B)	3
BIOL 2230	4	N FS 4240, 4270	6
H SC 3020, 4430	6	Minor	12
Minor	3	Elective	7
CHEM 2030	4		32
	35		

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 professional level 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, with a major in Interior Design, a minor in Human Sciences, and a professional core in art and business, includes the following courses: H SC 1010, 3020, 4410; H SC 4430 or CDFS 3330; IDES 2700, 2710, 3600, 3700, 3710, 3720, 3730, 3740, 3750, 3760, 4700, 4710, 4730, 4740, 4750, 4760, 4770, 4780, 4790; N FS 1240; CDFS 3320 or 3340; TXMD 3100; MKT 3820, 3840; INFS 2200; and 3 hours from ACTG 1110, MGMT 3610, BLAW 3400; ART 1620, 1910, 1920, and 3 hours from ART 1640, 1930, 2130, 2510, 3550, 4900, or PHOT 2050; General Studies requirements.

Interior design majors must 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	
English (Area I-A)	6	English (Area II-A)	3
Natural Science (Area IV-A)	4	H SC 3020;	
H SC 1010; IDES 2700, 2710,		IDES 3700, 3710, 3720,	
3600; N FS 1240	14	3730, 3750, 3760,	
INFS 2200	3	4700, 4710	27
PHED (Area V)	1	PHED (Area V)	1
ART 1620	3		31
	31		

Must pass Portfolio Review before entering junior-level design studios

SUMMER

History (Area III-A)	6
Natural Science (Area IV)	4
Gen. Studies (Area III-B)	3
MKT 3820	3
	16

JUNIOR

English (Area II-A)	3	SENIOR	
Mathematics (Area IV-B)	3	IDES 4760, 4770, 4780	9
CDFS 3330 or H SC 4430	3	H SC 4410	3
TXMD 3100	3	MKT 3840	3
IDES 3740, 4730, 4740		Gen. Studies (Area I-B)	3
4750, 4790	15	Business elective	3
ART 1910	3	Art elective	3
PHED (Area V)	1	PHED (Area V)	1
	31	ART 1920 (Area II-B)	3
		CDFS 3320	3
			31

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 fourth 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.*

1. FOED 1110, 2110;
2. ELED 3050, 3150, 3300, 4010, 4020, 4110;
3. H SC 1010, 1610, 4000; N FS 1240, 4250; CDFS 2350, 3310, 3320, 4300, 4320, 4330, 4350, 4360, 4370, 4380;
4. 9 hours of communications of ideas including ENGL 1010 and 1020, COMM 2200 or 4000;
5. 10 hours of health and physical education including PHED 2100 and 4370, PHED 3500, and 2 activity courses;
6. 16 hours of humanities and fine arts including ART 2230, MUED 4670, ENGL 2030, 2130 or 2330 or ENGL 3600 or LIBS 4150 or HUM 2610;
7. 9 hours of social and behavioral science to include HIST 2010, 2020, GEOG 2000;
8. 14 hours of natural science and mathematics to include BIOL 1030, PSCI 1030, or GEOL 1030; MATH 1410, 1420;
9. SPED 3010.

*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, 4010, 4020.
3. Students interested in a program in Early Childhood that does not lead to licensure should contact an advisor for planning appropriate course substitutions.

Recommended Curriculum

FRESHMAN		SOPHOMORE	
English (Area I-A)	6	English (Area II-A)	6
BIOL 1030; GEOL 1030 or		History (Area III-A)	6
PSCI 1030 (Area IV-A)	8	FOED 2110	3
MATH 1410 (Area IV-B)	3	MATH 1420 (Area IV-B)	3
FOED 1110	3	GEOG 2000 (Area III-B)	3
ART 2230	3	COMM 2200 or	
H SC 1010, 1610; CDFS 2350;		or 4000 (Area I-B)	3
N FS 1240	10	CDFS 3310, 3320, 4320,	
PHED (Area V)	2	4370	12
	35		36

JUNIOR

SPED 3010	3	SENIOR	
ELED 3050, 3150, 3330,		ELED 4020	3
4010	12	N FS 4250	3
H SC 4000; CDFS 4380,		HLTH 4370	2
4300, 4350	10	CDFS 4330, 4360	6
PHED 3500	4	LIBS 4150 or ENGL 3600	3
MUS 4670 (Area II-B)	4	ELED 4110 (Stu. Teaching)	12
HLTH 3100	2		29
	35		

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 (101) 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 mid-term.

1610 (161) 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 (302) 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 (343) 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 socio-psychological satisfaction with the residence. Offered once a year.

4000 (400) 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.

4041 (404A) Human Development-Family Life. Three credits.

4042 (404B) Foods-Nutrition. Three credits.

4043 (404C) Clothing-Textiles. Three credits.

4044 (404D) 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

4051 (405A) Human Development-Family Life. Three credits.

4052 (405B) Foods-Nutrition. Three credits.

4053 (405C) Clothing-Textiles. Three credits.

4054 (405D) Housing-Design. Three credits.

4060 (406) 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.

4101 (410A) Human Development-Family Life (Prerequisites: CDFS 2350, 3310, 3320, 3330, 4300, 4340, 4350, 4360, and 4390).

4102 (410B) Consumer Services (Prerequisites: H SC 3020, 4410, 4420, and 4430).

4103 (410C) Textiles, Merchandising, and Design (Prerequisites: retail-oriented: TXMD 3100, 3130, 3150 or 3190, 3160, 3170, and 4150; design-oriented: TXMD 3100, 3130, 3140, 3170, and 3190).

4104 (410D) Interior Design (Prerequisites: IDES 3730, 4750).

4105 (410E) Nutrition and Food Science (Prerequisites: N FS 3200, H SC 4430, and approval of advisor)

4410 (441) 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 (442) 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 (443) 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 (445) 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 (110) Clothing I. Three credits. The fundamental clothing construction processes necessary for advanced work in clothing. Five hours per week. Offered once a year.

3000 (300) 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 (307) 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 (310) 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 (312) 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 (313) 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 (314) 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 (315) 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 (316) 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 (318) 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 (319) 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 (411) 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 (412) Advanced Computer-Aided Apparel Design.** Three credits. Prerequisites: ETIS 1310; 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 (413) 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 (415) 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 (416) Advanced Apparel Design.** Three credits. Prerequisites: TXMD 3140 and 3190. Advanced apparel design techniques including patterning, draping, drafting, grading, and marker de-

velopment. Includes computerized patternmaking. Offered once a year.

- 4170 (417) Social Aspects of Clothing.** Three credits. Principles of sociology and psychology applied to the study of clothing and related behaviors. Research methods for studying socio-psychological aspects of clothing included. Offered once a year.

Courses in Nutrition and Food Sciences [N FS]

- 1240 (124) Principles of Nutrition.** Three credits. Fundamentals of normal nutrition and its relationship to the health and physical fitness of individuals with emphasis on the scientific, psychological, sociological, and economic aspects of nutrition. (Credit not allowed for Nutrition and Food Sciences major.)
- 2220 (222) 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 (320) 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.
- 3210 (321) Meal Management.** Three credits. Functions of management applied to serving nutritionally adequate and aesthetically satisfying meals. Management of human and non-human resources in group situations. Five hours per week.
- 3260 (326) 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 (328) 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. Offered once a year.
- 4090 (409) 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 (420) 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 once a year.
- 4210 (421) 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 (422) 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 (424) 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 once a year.

4250 (425) 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.

4260 (426) 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 (427) 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 once a year.

4280 (428) 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 (429) Dietetic Practicum. Six credits. Prerequisites: N FS 4200 and 4220. Practical preparation in the field of clinical dietetics. Clinical experience provided with the cooperation of Middle Tennessee Medical Center and other facilities. For senior dietetics students only. Offered summer only.

4800 (480) 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.

Courses in Child Development and Family Studies [CDFS]

2350 (235) Human Development I. Three credits. Total development of the child, conception to three years of age. Three hours plus one hour observation per week.

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 (331) Human Development II. Three credits. Prerequisite: CDFS 2350 or permission of instructor. In-depth study of physical, intellectual, social, and emotional factors influencing development preschool through middle childhood. Three hours plus one hour observation per week.

3320 (332) 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 (333) 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 (334) 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 (339) 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.

4140 (414) Violence in the Family. Three credits. (Same as SOC 4140.) The causes, dynamics, and consequences of violence in the family. 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 (430) Nursery School Practicum. Three credits. Prerequisites: CDFS 2350, 3310, 4370 or permission of instructor. 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 (431) 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.

4320 (432) 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. Three hours plus one hour of observation and interaction with young children with diverse needs per week.

4330 (433) Primary Practicum. Three credits. Prerequisites: CDFS 4300, 4380; ELED 3050; admission to teacher education. Advanced information and skills in working with kindergarten and primary age students. Consists of field experiences in the appropriate development and implementation of curriculum in kindergarten and one other primary grade. Three hours laboratory and two hours seminar per week.

- 4340 (434) 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 (435) Parenting.** Three credits. Developing knowledge and understanding of parenting and parent/child interaction explored across the lifespan from a theoretical as well as an applied perspective.
- 4360 (436) Day Care Perspectives.** Three credits. Prerequisite: CDFS 2350 and 3310 or permission of instructor. 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. Three hours plus one hour observation per week.
- 4370 (437) Effective Instruction (Birth-5).** Three credits. Prerequisites: CDFS 2350 and 3310 or permission of instructor. Must be taken concurrently with CDFS 4320 - Early Childhood Education majors only. A comprehensive exploration of the knowledge and skills necessary for designing and implementing curriculum appropriate for programs serving children birth to five years.
- 4380 (438) Infant/Toddler Practicum.** Three credits. Prerequisites: CDFS 2350, 3310, 4370 or permission of instructor. 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 (439) 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.
- 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.

Courses in Family and Consumer Sciences Education [FCSE]

- 2510 (251) 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 (351) 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 (450) 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 (450A) Care and Guidance of Children.** Three credits.
- 4502 (450B) Food Management, Production, and Services.** Three credits.
- 4540 (454 A-Z) 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 (455) 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 (456) 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 (457) Occupational Home Economics Seminar.** Three credits. Prerequisite: Consent of instructor. Examination and analysis of program development, execution, and evaluation in a selected occupational area.

Courses in Interior Design [IDES]

- 2700 (270) Interior Design Fundamentals.** Four credits. IDES 2700 and 2710 should be taken during same semester. Exploration of elements and principles of design with emphasis on the impact on the built environment. Architectural lettering styles and techniques applied to interior design. Six hours per week.
- 2710 (271) Interior Design Graphics.** Three credits. IDES 2700 and 2710 should be taken during same semester. Technical drawing techniques, lettering, and drawing 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 (293, 294, 397, 398) 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 and IDES coop coordinator.
- 3600 (360) 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 (370) Interior Design Visual Presentations I.** Three credits. Prerequisites: IDES 2700 and 2710; ART 1620; or permission of instructor. 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 (371) Principles of Interior Design.** Three credits. Prerequisites: IDES 2700 and 2710 or permission of instructor. Basic principles, theories, and procedures involved in creative problem solving. Five hours per week. Offered once a year.

- 3720 (372) Interior Materials and Finishes.** Three credits. Prerequisite: IDES 2710 or permission of instructor. Materials and finishes used in the treatment of interior space to be examined in terms of properties, specifications, installation, and manufacturers. Four hours per week. Offered once a year.
- 3730 (373) Residential Design I.** Three credits. Prerequisites: IDES 3710 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 (374) Interior Design Business Practices.** Three credits. Prerequisites: IDES 3720 and 3730; pass portfolio review. 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 (375) Interior Design Visual Presentations II.** Three credits. Prerequisites: IDES 3600 and INFS 2200. Presentation techniques using computer-aided drafting as applied to the interior design profession. Emphasis on 2-dimensional drawings. Five hours per week.
- 3760 (376) 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 (462) 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.**
- 4700 (470) History of Interiors.** Three credits. 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 (471) Survey of Contemporary Interior Design.** Three credits. Prerequisite: IDES 4700 or permission of instructor. 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 (473) Residential Design II.** Three credits. Prerequisites: IDES 3730 and 4750. 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 (474) Lighting Design.** Three credits. Prerequisite: IDES 3730 or permission of instructor. 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 (475) Introduction to Commercial Design.** Three credits. Prerequisites: IDES 3730; pass portfolio review. 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 (476) Contract Design I.** Three credits. Prerequisites: IDES 3760, 4740, 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 (477) 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 (478) Interior Design Portfolio.** Three credits. Prerequisite: IDES 4730. 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 (479) Interior Construction Documents.** Three credits. Prerequisites: IDES 4750; must be enrolled in IDES 4730 concurrently. 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 Master of Vocational Technical Education degree is offered in cooperation with three other departments. 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

Larry W. Morris, Chair
Jones Hall 103

Bauer, Belsky, Bernstein, Boyer-Pennington, Brinthaup, Brissie, Burke, Carlson, Compton, Dansby, Davis, Fromuth, Fuller, Hamilton, Hein, Heritage, Johnson, Jones, Kelly, Kendrick, Kim, Kramer, Langston, Littlepage, McCarthy, Moffett, Musicant, Pennington, Pleas, Quarto, Royal, Rust, G. Schmidt, S. Schmidt, Slicker, Sobel, Tate, Traugher, Ujcich, Van Hein, Vermillion, 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 masters 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.

A student whose major(s) and/or minor(s) include both Psychology and Industrial/Organizational Psychology cannot use the same coursework for both programs. Some courses may be used in either program, but in no case can a single course be used to satisfy requirements in both programs.

Consultation with the assigned advisor is recommended before each registration.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

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 Studies requirement (Area IV-B), 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

English (Area I-A)	3
BIOL 1030 (Area IV-A)	4
CSCI 1000 or equivalent	1
PHED (Area V)	1
PSY 1410 (Area III-B)	3
MATH 1710 or 1730 (Area IV-B)	3-4
15-16	

SECOND SEMESTER

English (Area I-A)	3
PHED (Area V)	1
Gen. Studies (Area II-B)	3
PSY 2210 and 2300	6
Minor	3
16	

SOPHOMORE YEAR

English (Area II-A)	6
Physical Science or Geology (Area IV-A)	4
HIST 2010, 2020 (Area III-A)	6
PHED (Area V)	2
PSY 2000	1
PSY 3020	3
PSY 3070	4
ENGL 3500 or 3520*	0-3
Minor	3
Gen. Studies (Area I-B)	3
32-35	

JUNIOR AND SENIOR YEARS

Psychology	21
Minors	30
Electives	15-18
66-69	

*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 3520 or ENGL 3500.

Two 18 hour 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, except as required for the major in I/O 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 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 2000 Seminar on Careers in Psychology
 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 Advanced Composition OR
 ENGL 3520 Professional Writing

Recommended Curriculum**FRESHMAN**

FIRST SEMESTER		SECOND SEMESTER	
English (Area I-A)	3	English (Area I-A)	3
BIOL 1030 (Area IV-A)	4	PHED (Area V)	1
CSCI 1000 or equivalent	1	Gen. Studies (Area II-B)	3
PHED (Area V)	1	PSY 2210 and 2300	6
PSY 1410 (Area III-B)	3	Minor	3
MATH 1710 or 1730 (Area IV-B)	3-4		16
	15-16		

SOPHOMORE YEAR

English (Area II-A)	6	PSY 4070	3
Physical Science or Geology (Area IV-A)	4	PSY 4080	3
HIST 2010, 2020 (Area III-A)	6	Psychology*	18
PHED (Area V)	2	Minor	12
PSY 2000	1	Electives	30
PSY 3020	3		66
PSY 3070	4		
ENGL 3500 or 3520	3		
Minor	3		
General Studies (Area I-B)	3		
	35		

*Students must have at least 28 psychology credit hours at 3000-4000 level.

One 18-hour minor is required (no restrictions on choice of minor.)

Major in Industrial/Organizational Psychology

Industrial/Organizational Psychology deals with a variety of personnel 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 personnel 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 24 hours of required courses (which must be completed with a grade of C- or above in each course), and 12 hours selected from a list of additional I/O

psychology courses. A minor in Psychology (which consists of 19 hours from six core areas of psychology) and a second minor* (in a related human resource field) are required. To meet the Mathematics General Studies requirement (Area IV-B), Industrial/Organizational Psychology majors must take MATH 1710 or 1730.

Required Courses (24 hours)

PSY 3020 Basic Statistics for Behavioral Sciences
 PSY 3320 Introduction to Industrial and Organizational Psychology
 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 4360 Organizational Psychology
 PSY 4370 Motivation and Work Attitudes

Additional I/O Courses

(Select 12 hours from the following courses):

PSY 2000 Seminar on Careers in Psychology
 PSY 3990 Research in Psychology
 PSY 4660 Psychology Seminar: Industrial-Social
 PSY 4070 Advanced Statistics for the Behavioral Sciences
 PSY 4080 Advanced Research Methods
 PSY 4730 Apprenticeship: Industrial
 PSY 4340 Human Factors Psychology
 PSY 4350 Safety Psychology
 PSY 4380 Group Dynamics
 PSY 4390 Persuasion
 PSY 4420 Experimental Social Psychology
 PSY 4610 Adult Psychology and Aging
 PSY 4720 Multicultural Perspectives in Psychology and Education

Psychology Minor (for Industrial/Organizational)

PSY 1410 General Psychology
 PSY 2210 Psychology of Social Behavior
 PSY 2300 Developmental Psychology OR
 PSY 4030 Psychology of Sensation and Perception OR
 PSY 4240 Behavioral Neuroscience
 PSY 3070 Research Methods
 PSY 3230 Abnormal Psychology OR
 PSY 3590 Personality
 PSY 4040 Introduction to Cognitive Psychology OR
 PSY 4480 Learning Theories

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 ENGL 3520.

*Students must complete a second 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		SECOND SEMESTER	
English (Area I-A)	3	English (Area I-A)	3
HIST 2010 (Area III-A)	3	Elective	3
INFS 2200 (computer)	3	HIST 2020 (Area III-A)	3
Gen. Studies (Area I-B)	3	PSY 2210 (minor)	3
PSY 1410 (minor) (Area III-B)	3	MATH 1710 or 1730 (Area IV-B)	3-4
PHED (Area V)	1	PHED (Area V)	1
	16		16-17

SOPHOMORE YEAR		JUNIOR YEAR	
English (Area II-A)	6	PSY 3070, 4040 (minor)	7
BIOL 1030 (Area IV-A)	4	PSY 4260, 4360 (I/O)	6
Physical Science or Geology (Area IV-A)	4	I/O electives	9
PSY 2300, 3230 (minor)	6	Minor	6
PHED (Area V)	2	Electives	6
Minor	3		34
PSY 3020, 3320 (I/O)	6	SENIOR YEAR	
Gen. Studies (Area II-B)	3	PSY 4270, 4290, 4330, and 4370 (I/O)	12
34		I/O electives	3
		Minor	9
		Electives including additional courses in major and minors	10
			34

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.*

Courses in Psychology [PSY]

1410 (141) 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 (142) 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 (200) 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 (218) 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 (219) 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 (221) 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 (230) 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 (302) 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 (302L) Laboratory in Psychology. One credit.

3070 (307) 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 (323) Abnormal Psychology. Three credits. Prerequisite: PSY 1410. Patterns of maladaptive behavior, including anxiety, depression, schizophrenia, and antisocial behavior.

3240 (324) Abnormal Child Psychology. Three credits. Prerequisite: PSY 1410. Emotional and behavioral disorders in childhood and adolescence including autism and depression and child maltreatment.

3250 (325) 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 (332) 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 (359) 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 (375) 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 (399) 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 (400H) Psychology Seminar: Honors.** One credit. Representative and integrative study of scientific journals of field. May be taken for a total of three credits.
- 4010 (401H) 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 (431H) Apprenticeship: Honors.** One to three credits. Supervised practical experience utilizing psychological principles and tools in an established organization.
- 4030 (403) 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 (404) 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 (405) 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 (406) 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 (407) 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 (408) 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 (410) 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 (411) 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 (412) 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 (403L) Laboratory in Psychology.** One credit.
- 4140 (404L) Laboratory in Psychology.** One credit.
- 4150 (424L) Laboratory in Psychology.** One credit.
- 4170 (442L) Laboratory in Psychology.** One credit.
- 4180 (448L) Laboratory in Psychology.** One credit.
- 4190 (419) 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 (421) 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 (422) 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 (424) 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 (425) 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 (426) 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 (427) Personnel Selection and Placement.** Three credits. Survey of test, interview, and other variables relating to applicant evaluation, placement, and upgrading.
- 4290 (429) 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 (433) 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 (434) 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 (435) Safety Psychology.** Three credits. Survey of basic theories of accident causation, safety research literature, methods of accident prevention, and industrial hygiene.
- 4360 (436) Organizational Psychology.** Three credits. Application to human interaction, group processes, and leadership.
- 4370 (437) 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 (438) 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 (439) 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 (440) 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 (442) 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 (444) 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 (445) 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 lifespan, and factors affecting self-perception and self-evaluation.
- 4460 (446) 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 (447) Theories of Counseling.** Three credits. Integration of the major theories of counseling and psychotherapy and their application.
- 4480 (448) Learning Theories.** Three credits. Survey of research and major theories of learning with emphasis on classical and instrumental conditioning and related topics.
- 4490 (449) 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.
- 4600 (460) 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 (461) 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 (462) Psychology of Women.** Three credits. Psychological impact of the culture on women's attitudes, roles, aspirations, problems, and personality development.
- 4630 (463) 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 (465) 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.
- 4660-4680 Psychology Seminar.** One credit each. Representative and integrative study of scientific journals of field. May be taken for a total of three credits.
- 4660 (400B) Industrial-Social**
4670 (400C) Clinical-Personality
4680 (400D) General-Experimental
- 4700 (470) 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 (472) Multicultural Perspectives in Psychology and Education.** Three credits. Theories and research relative to the education of multiethnic/racial minorities. Relation of culture and socialization to learning styles, assessment practices, and counseling considerations.
- 4730-4760 Apprenticeship.** One to three credits. Supervised practical experience utilizing psychological principles and tools in an established organization.
- 4730 (431A) Industrial**
4740 (431B) Child
4750 (431C) Pre-clinical
4760 (431D) Adolescent
- 4780 (478) 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 (480) 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 (482) 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 (499) 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, 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.



Department of Art

Mark Price, Chair Art Barn 115

Buxkamper, Fancher, Higgins, Jansen, Johnson, Kallenberger, Kelker, Nagy, C. Nuell, L. Nuell, O'Connell, Price, Recchia, Shaul, Tewell, Yokley

Programs in the Department of Art lead to the Bachelor of Science or the Bachelor of Fine Arts degree. 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.

Minors in Art, Art History, and Art Education also are available.

In addition, the student may elect to participate in a minor program of study which includes art therapy, art therapy/gerontology, and arts administration. Through these sequences, the department offers preparation for advanced study in a student's chosen field.

Beginning in Fall 2002, students transferring into department programs may be required to submit a portfolio of artwork for review before transfer credits are approved.

A portfolio review or art test is required to determine if transfer credit from art courses taken at other colleges will substitute for one or more 1000-level foundation art courses at MTSU. Transfer credits are evaluated three times each year: the first Monday of July, the third Monday of October, and during the Sophomore Review held each Spring semester. Contact the Art Department Office for information on materials that must be submitted, procedures, specific deadlines, etc.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

Recommended Lower-Division Curriculum

FIRST YEAR - FALL		FIRST YEAR - SPRING	
English (Area I-A)	3	English (Area I-A)	3
Gen. Studies (Area I-B)	3	Gen. Studies (Area III-B)	3
PHED activity (Area V)	1	CSCI 1000 or equivalent	1
ART 1610	3	PHED activity (Area V)	1
ART 1620	3	ART 1630	3
ART 1910	3	ART 1640	3
	16	ART 1920	3
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SECOND YEAR - FALL	
English (Area II-A)	3
Gen. Studies (Area IV-B)	3
PHED activity (Area V)	1
Entry Level Studios	6
Guided or gen. elective	3

SECOND YEAR - SPRING	
English (Area II-A)	3
Gen. Studies (Area II-B)	3
PHED activity (Area V)	1
ART 2800	1
Entry Level Studio	3
Second Level Studio	3
Guided or gen. elective	3
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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 Studies requirements as specified by the department. Students should consult with their advisors each semester in order to plan their schedule 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.

Students in the Graphic Design concentration also take 3 to 6 hours of directed problems leading to a portfolio review at the end of level VI (ART 4330).

Concentration: Studio

The Studio Art concentration requires the completion of a minimum of 75 semester hours in the Art Department including

- Foundation courses of 24 hours:
 - 12 hours of studio art courses: ART 1610, 1620, 1630, and 1640
 - 9 hours of art history survey: ART 1910, 1920, and 1930
 - 3 hours of seminars: ART 2800, 3800, and 4800;
- A studio emphasis of 15 hours from courses in clay, jewelry, painting, printmaking, or sculpture through course level V; 3 to 6 hours of directed individual problems (which must include level VI); and a student exhibition which must be juried by members of the faculty;
- Studio electives of 18 hours (9 hours of which must be upper-division);
- One minor in studio art of 9 hours through course level III;
- Advanced art history (6 hours of upper-division courses);
- MUS 1030; COMM 2200; and 3 hours of theatre or philosophy;
- General electives of 15 hours approved by an academic advisor.

Concentration: Graphic Design

The Graphic Design concentration requires the completion of a minimum of 84 semester hours in the Art Department and graphic related credits, including

- Foundation courses of 24 hours:
 - 12 hours of studio art courses: ART 1610, 1620, 1630, and 1640
 - 9 hours of art history survey: ART 1910, 1920, and 1930
 - 3 hours of seminars: ART 2800, 3800, and 4800;
- A graphic design emphasis of 21 hours from ART 2310, 2320, 3320, 3330, 4310, 4320, and 4330;

NOTE: ART 3330, 4310, and 4320 must be taken in sequence. ART 4330 may be taken concurrently with ART 4320. A juried portfolio review is required to enroll in ART 3330.

3. Specified electives of 15 hours:
 - a. 3 hours from ART 3930 or 4390
 - b. 3 hours from ART 3550 or 3770
 - c. 3 hours from ART 4280 or 4290
 - d. 3 hours from PHOT 2050 or ADV 3060
 - e. 3 hours from PHOT 3200, ART 3610, or ART 3620, or an approved graphics technology course;
4. One minor in studio art of 9 hours through course level III;
5. Advanced art history (6 hours of upper division courses);
6. Studio electives of 15 hours (6 hours of which must be upper-division).

Pre-Professional Study Minors

The pre-professional study minor requires the completion of 72 semester hours in the Art Department, including

1. Foundation courses of 24 hours:
 - a. 12 hours of studio art courses: ART 1610, 1620, 1630, and 1640
 - b. 9 hours of art history survey: ART 1910, 1920, and 1930
 - c. 3 hours of seminars: ART 2800, 3800, and 4800;
2. A studio emphasis of 15 hours from courses in clay, jewelry, painting, printmaking, or sculpture through course level V; 3 to 6 hours of directed individual problems (which must include level VI); and a student exhibition which must be juried by members of the faculty;
3. Studio electives of 15 hours (6 hours of which must be upper-division);
4. One minor in studio art of 9 hours through course level III;
5. Advanced art history (6 hours of upper-division courses);
6. MUS 1030; COMM 2200;
7. Pre-professional minor (18 hours) in one of the following:

Psychology Minor

This program is designed to prepare the student for entry into graduate level work in art therapy (prerequisite: PSY 1410).

PSY 3020	Basic Statistics for Behavioral Science
PSY 3230	Abnormal Psychology
PSY 4670	Psychology Seminar: Clinical Personality
PSY 4750	Apprenticeship: Pre-clinical
PSY 4610	Adult Psychology and Aging
3 hours elected from PSY 4120, 4210, 4240	

Aging Studies (Gerontology)

This program is designed to prepare the student for work with older persons or for entry into graduate work in art therapy (prerequisite: SOC 1010).

SOC 4020	Sociology of Aging
SOC 4500	Social Psychology
SOC 4800	Special Projects
PSY 4610	Adult Psychology and Aging
6 hours elected from PSY 3230, 4240, 4470	

Entrepreneurship Minor

This program is designed to prepare the student for work in the field of art administration, self-employment as an artist/businessperson, or for work in galleries and museums.

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

Minor in Art

A general minor in Art requires the following sequence of courses: ART 1610, 1620, 1630, 1640, and two studio courses.

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.

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.

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 Studies 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.

Art Education

The major in Art Education requires the completion of 62 semester hours in the Art Department.

1. ART 1610, 1620, 1630, 1640, 1910, 1920, 1930, 2200, 3210, and 3220;
2. 18 hours from ART 2010, 3020; 3550; 2130, 3140 or 4000; 2510, 3520; 2710, 3720, 2810, 3820, to include one series of two courses in a two-dimensional and one series of two courses in a three-dimensional area plus one additional series of two courses;
3. 6 hours of upper-division art history;
4. 8 hours of upper-division art electives.

Minor in Art Education

The minor in Art Education requires a minimum of 22 semester hours in art as recommended by the department chair.

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 are required to participate in a Sophomore Review during the second semesters of their sophomore years.
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 jewelry, 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, 2800, 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.

Courses in Art [ART]

- 1030 (290) Orientation to Art.** Three credits. An introduction to art structure and styles of art; relationships between past ideas and current trends.
- 1610 (161) Two-Dimensional Design.** Three credits. The principles and techniques of design and their application to two-dimensional art forms.
- 1620 (162) Drawing I.** Three credits. Develops observational drawing skills and a formal drawing vocabulary; introduces various drawing materials.
- 1630 (163) Three-Dimensional Design.** Three credits. Prerequisite: ART 1610. Emphasis on elements of design as they operate in the three-dimensional environment.
- 1640 (164) Drawing II.** Three credits. Prerequisites: ART 1610 and 1620. A continuation of ART 1620 with specific emphasis placed on drawing processes and expression.
- 1910 (191) 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 (192) 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 (193) 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.
- 2010 (201) Jewelry I.** Three credits. Prerequisites: ART 1610, 1620, 1630, and 1640 or permission of instructor. Introduction to the basic techniques of making jewelry.
- 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 (213) 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 (220) 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 (221) 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 (223) 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 (231) 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 (232) 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 (215) 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 (262) 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 (271) 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.
- 2800 (280) Sophomore Seminar.** One credit. Prerequisite: Must be a third-semester sophomore or recent transfer. An overview of art worlds within and outside of the department; also, preparation for the required Sophomore Review.
- 2810 (281) 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.
- 3020 (302) Jewelry II.** Three credits. Prerequisites: ART 1610, 1620, 1630, and 1640 or permission of instructor. Advanced jewelry techniques including centrifugal casting.
- 3030 (303) Jewelry III.** Three credits. Prerequisite: ART 3020. Studio experience in constructing, forging, casting, chasing and

repousse, raising, and stone setting with an emphasis on jewelry as an art form.

- 3140 (314) 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 (320) 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 (321) 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 (322) 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.
- 3320 (332) 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 (333) 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 (352) 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 (353) 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 (355) 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 (356) 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 (361) 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 (362) 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 (365) 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 (372) Painting II.** Three credits. Prerequisite: ART 2710. A continuation of ART 2710 with additional attention paid to individual expression and art historical perspectives.
- 3730 (373) 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 (377) 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.
- 3800 (380) Junior Seminar.** One credit. Prerequisite: Must have completed the Sophomore Review. Fosters an understanding of creative processes and an awareness of issues in contemporary art.
- 3820 (382) 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 (383) 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 (387A) Art of the Americas.** Three credits. Prerequisite: ART 1930 or permission of the instructor. Content varies; covers indigenous visual arts expressions in North America through the nineteenth century. Interpretation and relevant art historical theory.
- 3871 (387B) Art of the Americas.** Three credits. Prerequisite: ART 1930 or permission of the instructor. Content varies; covers Pre-Columbian visual arts expressions in Meso-America. Interpretation and relevant art historical theory.
- 3872 (387C) Art of the Americas.** Three credits. Prerequisite: ART 1930 or permission of the instructor. Content varies; covers Pre-Columbian visual arts expressions in South America. Interpretation and relevant art historical theory.

- 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 (391) Renaissance Art History.** Three credits. Prerequisite: ART 1920 or permission of instructor. The visual arts of the Renaissance in Europe (ca. 1300-1600).
- 3930 (393) 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 (399) 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 (400) 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.)
- 4010 (401) Lapidary.** Three credits. Prerequisites: ART 2010 and 3020. Cutting, polishing, and setting of semi-precious minerals with a basic course in stone identification.
- 4020 (402) Enameling.** Three credits. Prerequisites: ART 2010 and 3020. Basic techniques of enameling on copper with a strong emphasis on the development of the student's aesthetic and design awareness.
- 4030 (403) Silversmithing.** Three credits. Prerequisites: ART 2010 and 3020. Aesthetics and techniques of raising hollowware (in copper and silver).
- 4100 (410) 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 (411B) Advanced Book Arts.** Three credits. Prerequisite: ART 3550. Further work with papermaking, bookbinding, and the production of artist's books.
- 4120 (412) 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 (413) Advanced Printmaking.** Three credits. Prerequisite: ART 4120. Advanced work in one of the printmaking media as described in ART 4120.
- 4140 (414) 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 (429) Beginning Illustration.** Three credits. Prerequisites: ART 1610, 1620, 1630, 1640, and 1650; ART 3330 for graphic design majors. Introduces basic methods, materials, and business practices of illustration, with an emphasis on development of rendering skills.
- 4300 (430) 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 (431) 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 (432) 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 (433) 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 (439) 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 (440) 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 (451) 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 (452) 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 (453) 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 (464) 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 (471) 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 (472) 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 (473) 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 (477) 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.
- 4800 (480) Senior Seminar.** One credit. Prerequisite: Must be at least a first-semester senior. Covers professional matters and explores possibilities for continued learning and/or career enrichment.
- 4810 (481) 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 (482) Advanced Clay.** Three credits. Prerequisites: ART 4810 and permission of instructor. Further work as described in Intermediate Clay II.
- 4830 (483) 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 (480) 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 (489) 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 (490) 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 (491) 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 (492) 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 (494 A-Z) 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 (496) 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 Art Department offers a 15-hour certificate program of graduate study in Art Education. The department also offers a minor at the graduate level. Requirements for these programs 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, Barnett, Blackwell, Bradley, Brantley, Bray, Brewer, Cain, Cantrell, Casal, Casson, Clayton, Cox, Dayton, E. Donovan, K. Donovan, Dudinetz, M. Dunne, S. Dunne, Fesmire, Gentry, Hague, Helford, Hibbard, Hixon, Hollings, Holtzclaw, Jackson, Johnson, J. Kates, R. Kates, Kerrick, King, Kostkowska, Lavery, Lee, Levine, Lewis, Lutz, Mackin, Mapp, McCluskey, McKee, Neth, Ordoubadian, Ostrowski, Penn, Petersen, Phillips, Rizzo, Sherman, Shipp, Strawman, Taylor, Therrien, Walker, Wolfe

Courses in the Department of English meet the General Studies 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. 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, Medieval Studies, Native American Studies, Southern Studies, Twentieth-Century European Studies, Women's Studies, and Writing. See page 72 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 12 semester hours of English.**

General Requirements

A minimum of 12 semester hours in General Studies English is required of all students for graduation. Students complete this requirement by taking ENGL 1010 and 1020, in sequence; ENGL 2030; and either ENGL 2130, 2230, or 2330 or HUM 2610.

Students must pass ENGL 1010, 1020, and 2030 in sequence before taking either ENGL 2130, 2230, or 2330 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 either 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 86, Developmental Studies.)

Enhanced ACT English Score of 18 or below: Must undergo further testing (See page 86, 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 86, Developmental Studies, and page 34.)

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 33). Students may earn credit for ENGL 2030, 2130, and 2230 by scoring satisfactorily on CLEP exams (see page 33).

If a student takes an examination for advanced placement credit in General Studies 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 12 semester hours of English General Studies by passing the following courses in the sequence in which they are listed.

1. ENGL 1010
2. ENGL 1020
3. ENGL 2030
4. ENGL 2130, 2230, or 2330 or HUM 2610

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

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. 72) to satisfy the Enhanced General Education requirements; and (3) the professional educational requirements (Secondary Education minor).

Major in English

A major in English consists of a minimum of 36 semester hours.

1. Students should take ENGL 3010 and 3020 in sequence as soon as possible after they declare an English major and complete freshman and sophomore General Studies requirements for English.
2. One course must be included from each of the following eight groups:
 - a. English literature I: 3110, 3120, 3130, 4330, 4340, 4360, 4610
 - b. English literature II: 3210, 3220, 3230, 4100, 4240, 4620, 4710
 - c. American literature: 3300, 3310, 3320, 3330, 3340, 3360, 3370, 4630, 4800
 - d. European literature: 3390, 3400, 3440, 4210, 4220, 4420, 4430; HUM 3950
 - e. Writing and language: 3500, 3520, 3530, 3540, 3550, 3560, 4000, 4500, 4510, 4530, 4540, 4560, 4870
 - f. Genre studies: 3350, 3380, 3450, 3460, 3750, 4450, 4460, 4470, 4770
 - g. Gender/Cultural studies: 3060, 3070, 3080, 3090, 3100, 3300, 3360, 3590, 3600, 4010, 4480, 4750, 4880; FREN 3130
 - h. Film/Popular literature: 3050, 3610, 3650, 3660, 3670, 3700, 3800, 4650, 4860
3. ENGL 4500, Methods of Teaching Secondary English, and ENGL 4510, Modern English Grammar and Usage, are required for all English majors seeking teacher certification and for all students seeking licensure in English (as defined above). Majors seeking certification should choose one course from either group "g" or "h."
4. 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 (3500 and 4600) may also be substituted, with approval, in one of the above groups.
5. ENGL 1010 and 1020 may not be counted as part of the hours required for an English major.
6. No more than 6 hours of sophomore literature (2000 level) courses in English can be counted toward a 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 from either those listed under the B.A. requirements (page 56) or from the interdisciplinary minors (page 72).

All students pursuing a major within this department must complete the General Studies 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

English (Area I-A)	6
Science (Area IV-A)	8
Gen. Studies (Area III-B)	3
PHED (Area V)	2
Gen. Studies (Area I-B)	3
Requirements as advised	6
Electives as advised	4
CSCI 1000 or equivalent	1

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SOPHOMORE

English (Area II-A)	6
History (Area III-A)	6
Gen. Studies (Area V)	2
Gen. Studies (Area II-B)	3
Mathematics (Area IV-B)	3
Requirements as advised	6
Electives as advised	8

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Minor in English

A minor in English requires a minimum of 18 hours, at least 12 of which must be in upper-division courses. ENGL 1010 and 1020 cannot be counted as part of the hours required for the minor, and no more than six hours of sophomore literature (2000-level) courses in English can be counted toward the minor. 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 in the University. The Department of English coordinates the interdisciplinary minors in Film Studies, Great Books, and Writing. See Interdisciplinary Minors beginning on page 72.



Courses in English [ENGL]

General Studies Courses

- 1010 (111) Expository Writing.** Three credits. The first General Studies 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 (112) Research and Argumentative Writing.** Three credits. Prerequisite: ENGL 1010. The second General Studies 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 (104) 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 Studies English requirement.**
- 2030 (211) 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. Required of all students.
- 2130 (221) Themes in American Literature.** Three credits. Prerequisites: ENGL 1010, 1020, and 2030. Reading—poetry, prose, and drama—which emphasizes the fundamental attitudes and ideas pervasive in American literature.
- 2230 (224) Themes in British Literature.** Three credits. Prerequisites: ENGL 1010, 1020, and 2030. Reading in British literature—prose, poetry and drama—that expresses significant ideas, attitudes, and values in British culture.
- 2330 (223) Special Topics in Literature and Culture.** Three credits. Prerequisites: ENGL 1010, 1020, and 2030. Selected topics including the study of literature and its connections to relevant cultural issues. Subject will vary with instructor.
- 3060 Black Women as Writers.** Three credits. A survey of black women's literary expressions and the historical and socio-cultural factors that shape these women's artistic sensibilities and thematic concerns. Emphasis will be given to U.S. women writers.
- 3070 (307) Early Women Writers.** Three credits. An introduction to British/American/world literature by women through the eighteenth century.
- 3080 (308) Women and Film.** Three credits. Representations of women in classic and contemporary films and of the work of contemporary women directors.
- 3090 (309) 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 (310) 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 (311) 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 (312) English Literature: The Sixteenth Century.** Three credits. Readings in the major (More, Sidney, Spenser, Shakespeare, Jonson, Donne) and minor authors and genres (prose fiction, romance epic, sonnet, lyric). Effects of cultural, political, and religious influences on the literature.
- 3130 (313) 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 (321) English Literature: Restoration and Eighteenth Century.** Three credits. English literature 1660-1800 emphasizing writings which reflect or influenced historical and literary developments.
- 3220 (322) 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 (323) English Literature: The Victorian Period.** Three credits. The literature of England, 1830-1900. Emphasis on poetry and the novel.
- 3300 (330) 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.
- 3310 (331) Nineteenth-Century American Literature.** Three credits. Survey of American literature from Washington Irving to Henry James. Concentration on Romanticism, Realism, Naturalism, Pragmatism. Selected novels.

Upper-Division Course Offerings

Prerequisites: Completion of 1000- and 2000-level English requirements.

- 3010 (301) Introduction to English Studies I.** Three credits. Open only to English majors; required. Study of literature, 450-1700. Historical periods of literature, literary genres, critical approaches to literature, and literary research.
- 3020 (302) Introduction to English Studies II.** Three credits. Prerequisite: ENGL 3010. Open only to English majors; required. Study of literature, 1700 to the present. Historical periods of literature, literary genres, critical approaches to literature, and literary research.
- 3050 (305) Science Fiction.** Three credits. The science fiction genre, emphasizing significant themes, recurrent images and conventions, and historical and cultural context.

- 3320 (332) Twentieth-Century American Literature.** Three credits. Survey of American literature from Theodore Dreiser to the present. Concentration on major authors. Selected novels.
- 3330 (333) Southern Literature.** Three credits. Early and modern Southern writers. Emphasis on the period 1920-present.
- 3340 (334) 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 (335) 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 (480) Multicultural Literature of the United States.** Three credits. Writers, genres, and criticism in Native American, African American, Hispanic American, and Asian American literatures.
- 3370 (337) 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 (338) The Comic Tradition.** Three credits. The various forms of comic literary art as manifested in fiction, drama, poetry, and in folk humor and rituals.
- 3390 (339) Classical Mythology.** Three credits. Survey of the major myths and legends of the classical world, with an emphasis on Greek mythology.
- 3400 (340) 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 (344) 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, philosophical concepts, and literary features.
- 3450 (345) 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 (346) 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 (350) Advanced Composition.** Three credits. Exercises in the solution of expository writing problems posed in advanced university studies and in non-technical professions: essays, reports, reviews, analyses.
- 3520 (352) 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.
- 3530 (353) Legal Writing and Research.** Three credits. 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.
- 3540 (354) Fiction Writing.** Three credits. Prerequisite: Permission of instructor. A specialized seminar in which students study and create works of fiction.
- 3550 (355) Poetry Writing.** Three credits. Prerequisite: Permission of instructor. A specialized seminar in which students study and create poetry.
- 3560 (356) Playwriting.** Three credits. Prerequisite: Permission of instructor. A specialized writing course focusing on the appreciation and realization of the dramatic form.
- 3590 (359) 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 (360) Children's Literature.** Three credits. A survey of literature for children based on wide reading in the field.
- 3610 (361) 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 (365) Literature and Film.** Three credits. The relationship between literature and film with emphasis on narration, characterization, point of view, and setting.
- 3660 (366) Film Genre.** Three credits. One or more groups of films linked through narrative, stylistic, and/or thematic characteristics.
- 3670 (367) Film History.** Three credits. History of world film from its inception through the 1990s.
- 3700 (370) British Popular Culture.** Three credits. A cultural survey of Great Britain since 1945, including history, music, film, and literature.
- 3750 (375) Modern and Contemporary Satire.** Three credits. The theory and practice of satire, 1900 to the present, with an emphasis on prose fiction.
- 3800 (380) Literature for Adolescents.** Three credits. Surveys literature for adolescents, historical and contemporary; analysis of contemporary issues in the field.
- 3990 (399) 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.
- 4000 (400) Writing Internship.** Three to twelve credits. Prerequisites: Fulfillment of ENGL 3500, 3520, or 3530 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 per-

mission of the internship director. Writing minors have priority, followed by English majors, and then any student approved by the internship director. Only 6 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.

- 4010 (401) Folklore.** Three credits. Traditional lore and culture (literature, ballads, beliefs, materials) with primary attention to the American scene.
- 4100 (410) Browning and Tennyson.** Three credits. The lives and works of the major Victorian poets.
- 4210 (421) Literary Criticism.** Three credits. Critical theories: Classical, Neo-Classical, Romantic, and Modern. Practical criticism: the technical analysis of poetry and prose.
- 4220 (422) 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 Sartre, Barthes, Marx, Freud. Course divided by themes representing disciplines or modes of thought.
- 4240 (424) 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 (433) Histories and Comedies of Shakespeare.** Three credits. Selected plays, with emphasis on the study of character, theme, and imagery.
- 4340 (434) Tragedies of Shakespeare.** Three credits. Selected plays, with emphasis on the study of character, theme, and imagery.
- 4360 (436) English Drama: 1475-1642 (excluding Shakespeare).** Three credits. Plays written by Shakespeare's predecessors, contemporaries, and immediate successors.
- 4420 (442) European Literature: 1400-1800.** Three credits. Survey of continental literature (in translation) of the Renaissance, Neo-classical, and Enlightenment periods. Emphasis on Rabelais, Cervantes, Moliere, and Voltaire.
- 4430 (443) Modern European Literature.** Three credits. Survey of continental literature (in translation) from 1800 to the present, including Goethe, Tolstoy, Flaubert, Ibsen, and Hesse.
- 4450 (445) Modern Poetry.** Three credits. Major British and American poets from Emily Dickinson and Thomas Hardy to 1950.
- 4460 (446) 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 (447) Modern Drama.** Three credits. World drama from 1880 to the present.
- 4480 (448) 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 (449) Autobiography.** Three credits. Introduces autobiographical writing as a literary genre.
- 4500 (450) Methods of Teaching Secondary English.** Three credits. Prerequisite: YOED 3050, 3100. An intensive study of both grammar and composition for the teacher, the writer, and the editor: writing, analyzing, and judging composition. Required for all English majors seeking teacher licensure.
- 4510 (451) Modern English Grammar and Usage.** Three credits. Traditional English grammar and the principles upon which grammatical analysis is based. Required for all English majors seeking teacher licensure.
- 4530 (453) 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 (454) 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.
- 4560 (456) Descriptive 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.
- 4610 (461) Chaucer: The Canterbury Tales.** Three credits. An intensive study of *The Canterbury Tales* and the background out of which they were written.
- 4620 (462) Milton.** Three credits. An intensive study of *Paradise Lost*, *Samson Agonistes*, "Lycidas," *Areopagitica*, and the minor poetry.
- 4630 (463) The American Renaissance.** Three credits. American Romanticism in the selected writings of Emerson, Whitman, Thoreau, Hawthorne, and Melville.
- 4650 (465) Film Theory and Criticism.** Three credits. A survey of the major theoretical approaches to film, including montage, *mise-en-scene*, and structuralist theory.
- 4710 (471) Contemporary British and Commonwealth Novels.** Three credits. Contemporary British and Commonwealth novels in the context of social and literary history.
- 4720 (472) 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 (477) 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 (485) 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 (486) 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 (487) 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 (488) 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:

English 1010 (111H) (Fall Semester)

English 1020 (112H) (Spring Semester)

English 2030 (211H) (Fall Semester)

English 2130 (221H) (Spring Semester)

English 2330 (223H) (Spring Semester)

English 2230 (224H) (Spring Semester)

Upper Division Honors

English 3050 305H

English 3230 323H

English 3340 334H

English 3390 339H

English 3650 365H

English 4340 434H

English 4630 463H

Graduate Study

The Master of Arts and a doctoral degree 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

Deborah Mistrion, Chair
Boutwell Dramatic Arts Building 301

Conley, Da, Diaz, Goldberg, Hedgepeth, Heine, Kew, Maisonneuve, McCash, Morris, Nogueira, Novella, Rosenhagen, Rusciolelli, Shelton, Thomas

Courses in foreign languages and literatures are designed to meet the General Studies 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, and Classical Studies.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

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) Foreign Languages 4500, Introduction to Teaching Foreign Languages; (3) the Enhanced General Education requirements (these include and add to the General Studies requirements; and (4) the professional educational requirements (minor). Students must pass an oral interview in the target language at the advanced level.

Enhanced General Education Requirements

Students must take an 18-hour approved minor acceptable for a B.A. degree.

Professional Education Requirements

Students must contact their minor advisors in professional education for approval of appropriate courses. (For specific procedures and additional requirements for teacher licensure, see page 184.)

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 36 semester hours in one language (excluding 1010) and must include at least 21 hours of upper-division work.

French specialists are required to take FREN 3010, 3020, and two 4000-level courses. Native speakers of French will substitute FREN 3110, 3120, or an additional 4000-level course for 3010 and 3020.

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 advisor.

Majors should choose HUM 2610, Foreign Literature in Translation, to satisfy Area II-A of the General Studies requirements.

Majors should pursue the following lower-division program:

Recommended Curriculum

FRESHMAN		SOPHOMORE	
English (Area I-A)	6	ENGL 2030, HUM 2610	
Science (Area IV-A)	4	(Area II-A)	6
Foreign language 1010, 1020 or 2010, 2020 (Area I-A)	6	Science (Area IV-A)	4
PHED (Area V)*	2	Foreign language 2010, 2020 or 3010, 3020	6
Gen. Studies (Area III-B)	3	HIST 2010 and 2020	6
Electives	10	(Area III-A)	
Gen. Studies (Area II-B)	3	PHED (Area V)	2
CSCI 1000 or equivalent	1	Electives	7
	35	MATH 1010 (Area IV-B)	3
			34

**To meet this requirement, students may take four semesters of one-hour PHED activity courses or two semesters of one-hour PHED activity courses plus PHED 2100. Two hours of military science or marching band may be substituted for 2 hours of PHED activity credit in either case.*

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 score of 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, and Latin American Studies. See Interdisciplinary Minors beginning on page 72.

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 (450) 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 (213) Medical Vocabulary. Three credits. Principles of forming and deciphering medical terminology.

2610 (261) Foreign Literature in Translation. Three credits. Representative works of French, German, and Hispanic authors in English translation. No foreign-language proficiency required. **Carries General Studies credit (II-A).**

3950 (395) 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 (455) 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 (461) 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 (111) Elementary French I. Three credits. Foundation course in reading, writing, speaking, and aural comprehension. **Carries General Studies credit (I-B).**

- 1020 (112) Elementary French II.** Second semester. Three credits. Prerequisite: FREN 1010 or advanced placement (see above). Continuation of 1010.
- 1030 (113) 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 (211) Intermediate French I.** Three credits. Prerequisite: FREN 1020 or advanced placement (see above).
- 2020 (212) Intermediate French II.** Second semester. Three credits. Prerequisite: FREN 2010 or advanced placement (see above). Continuation of 2010.
- 3000 (300) Group Conversational French.** One credit. Prerequisite: FREN 1010 or 1020 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 (301, 302) Advanced Conversation and Composition.** Three credits each. Prerequisite: Intermediate French or advanced placement (see above).
- 3030 (303) 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 (305) Intensive Conversational French.** Three credits. Prerequisite: One year of French.
- 3050 (311) Survey of French Literature and Culture (Middle Ages-1800).** Three credits. Prerequisite: FREN 2020 or equivalent.
- 3060 (312) Survey of French Literature (1800-Present).** Three credits. Prerequisite: FREN 2020 or equivalent.
- 3110 (322) French/Francophone Culture.** Three credits. Prerequisite: FREN 2020 or equivalent. History of French/Francophone culture from the beginning to present.
- 3120 (350) 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 (368) 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 (390) 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 (397, 398) 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 (410) Topics in Twentieth-Century French Literature.** Three credits. Prerequisites: 6 hours of French beyond the intermediate level or permission of instructor.
- 4020 (415) 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 (420) Topics in Nineteenth-Century French Literature.** Three credits. Prerequisites: 6 hours of French beyond the intermediate level or permission of instructor.
- 4040 (425) Topics in Eighteenth-Century French Literature.** Three credits. Prerequisites: 6 hours of French beyond the intermediate level or permission of the instructor.
- 4050 (430) Topics in Medieval and Renaissance French Literature.** Three credits. Prerequisites: 6 hours of French beyond the intermediate level or permission of instructor.
- 4060 (433) Topics in Neoclassical French Literature.** Three credits. Prerequisites: 6 hours of French beyond the intermediate level or permission of instructor.
- 4900 (490) 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.
- 4958 (495H) 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 mid-term of the semester preceding enrollment in 4958.
- 4990 (421) 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 (111) Elementary German I.** Three credits. A foundation course in reading, writing, speaking, and aural comprehension. **Carries General Studies credit (I-B).**
- 1020 (112) Elementary German II.** Second semester. Three credits. Prerequisite: GERM 1010 or advanced placement (see above).
- 2010 (211) Intermediate German I.** Three credits. Prerequisite: GERM 1020 or advanced placement.
- 2020 (212) Intermediate German II.** Second semester. Three credits. Prerequisite: GERM 2010 or advanced placement.

- 3000 (300) 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 (301, 302) Advanced Composition and Conversation.** Three credits. Prerequisite: GERM 2020 or advanced placement.
- 3030 (303) 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 (305) Intensive Conversational German.** Three credits. Prerequisite: GERM 2010 or equivalent.
- 3050, 3060 (311, 312) 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 (313) 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 (390) 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 Universitat, Fachbereich der angewandten Sprachwissenschaften, in Gernersheim, Germany, studying German language, literature, and culture. May be repeated once.
- 3970, 3980 (397, 398) 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 (434) Topics in German Literature and Culture.** Three credits each. Prerequisites: 6 hours German beyond intermediate level or permission of instructor.
- 4020 (450) German Literature: 1725-1880.** Three credits. Prerequisites: 6 hours German beyond intermediate level or permission of instructor.
- 4030 (460) German Literature: 1880 to Present.** Three credits. Prerequisites: 6 hours German beyond intermediate level or permission of instructor.
- 4900 (490) 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 (495H) 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 mid-term of the semester preceding enrollment in 4950.

- 4990 (421) 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 (111) 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 communications.
- 1020 (112) 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.

Courses in Japanese [JAPN]

- 1010 (111) Elementary Japanese I.** Three credits. A foundation in reading, writing, speaking, and aural comprehension. **Carries General Studies credit (I-B).**
- 1020 (112) Elementary Japanese II.** Second semester. Three credits. Prerequisite: JAPN 1010 or equivalent. A continuation of materials introduced in 1010.
- 2010 (211) Intermediate Japanese I.** Three credits. Prerequisite: JAPN 1020 or equivalent.
- 2020 (212) Intermediate Japanese II.** Second semester. Three credits. Prerequisite: JAPN 2010 or equivalent.
- 3010 (301) 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 (302) Advanced Japanese.** Three credits. Prerequisite: JAPN 3010. A continuation of JAPN 3010.

Courses in Latin [LATN]

- 1010 (111) 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. **Carries General Studies credit (I-B).**
- 1020 (112) 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 (211) Intermediate Latin I.** Three credits. Prerequisite: LATN 1020 or advanced placement. Includes readings from both classical and later periods, prose, and verse.
- 2020 (212) 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 (111) Elementary Russian I.** Three credits. A beginning course in written and spoken Russian. Special emphasis on noun declension and verbal aspects. **Carries General Studies credit (I-B).**
- 1020 (112) Elementary Russian II. Second semester.** Three credits. Prerequisite: RUSS 1010 or advanced placement. A continuation of RUSS 1010.
- 2010 (211) Intermediate Russian I.** Three credits. Prerequisite: RUSS 1020 or equivalent.
- 2020 (212) Intermediate Russian II. Second semester.** Three credits. Prerequisite: RUSS 2010 or equivalent.

Courses in Spanish [SPAN]

- 1010 (111) Elementary Spanish I.** Three credits. A foundation course in reading, writing, speaking Spanish with an emphasis on conversation. **Carries General Studies credit (I-B).**
- 1020 (112) Elementary Spanish II. Second semester.** Three credits. Prerequisite: SPAN 1010 or advanced placement. A continuation of materials introduced in 1010.
- 2010 (211) 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 (212) 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.
- 3000 (300) Group Conversational Spanish.** One credit. Prerequisite: SPAN 1010 or 1020 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 (315, 316) 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.
- 3030 (303) 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 (305) Intensive Conversational Spanish.** Three credits. Prerequisite: Permission of instructor. Intensive conversation practice in simulated and real-life situations.
- 3050 (320) 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 (341) 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 (342) Introduction to Hispanic Literature.** Three credits. Prerequisite: SPAN 3010 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 stylistics. Native Spanish speakers or students with native-like Spanish pronunciation may not take this course for credit without instructor permission.
- 3970, 3980 (397, 398) 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 (410) 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 (415) 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 non-fiction, poetry, and drama included.

- 4030 (425) Spanish Literature II.** Three credits. Prerequisite: SPAN 3080 or permission of instructor. Spanish literature from the eighteenth century to the present.
- 4040 (444) 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 non-fiction, 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 (445) 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 (455) 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 (465) 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 (470) Theory and Practice of Spanish Drama.** Three credits. Prerequisite: SPAN 3080 or permission of instructor. Drama theory and participation in a theatrical production.
- 4090 (475) 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 (490A) 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 (490B) 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.
- 4958 (495H) 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 mid-term 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 Geography and Geology

Ronald L. Zawislak, Chair
Kirksey Old Main 325B

Abolins, Bordine, Cribb, Garbharran, Harris, Heffington, Hiett, Henry, Nolan, O'Farrell, Ogden

Courses in the Department of Geography and Geology are designed to meet the General Studies needs of all students, to enhance their cultural development in a liberal arts program, to broaden their knowledge of the physical environment, and to provide a solid foundation for those planning to enter fields in which geographical and geological knowledge is of value.

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 sub-divided into six career patterns: geography for teachers, geography, and geographic techniques within the Geography concentration; and geology, earth science, and earth science for teachers 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 Geography and Geology 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.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

Major in Geoscience

All students pursuing the major in Geoscience must complete 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 AND
 GEOL 1050 Historical Geology per General Studies requirements
 GEOG 2000 Introduction to Regional Geography, 3 hours*
 GEOG 4380 Cartography (mapping), 4 hours, OR
 GEOL 3050 Field Methods in Geology, 2 hours AND
 GEOL 3060 Computer Methods in Geology, 3 hours

*Can also serve as General Studies requirements for Areas IV-A and III-B, respectively

All students pursuing a major within this department must complete the General Studies requirements outlined on pages 59-61 and referred to by areas. 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	
English (Area I-A)	6	English (Area II-A)	6
Science (Area IV-A)	8	History (Area III-A)	6
Gen. Studies (Area III-B)	3	PHED (Area V)	2
PHED (Area V)	2	Gen. Studies (Area II-B)	3
Gen. Studies (Area I-B)	3	Mathematics (Area IV-B)	3
Requirements as advised	6	Requirements as advised	6
Electives as advised	4	Electives as advised	8
CSCI 1000 or equivalent	1		34
	33		

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. The pattern consists of 31 hours, distributed as follows:

Required courses (7 hours)

- GEOG 3401 or 3402 Field Course
 GEOG 4360 Cultural Geography

Four of the following regional courses (12 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 3450 Geography of Australia and Oceania
 GEOG 3460 Geography of the Former Soviet Union
 GEOG 3470 Geography of Africa
 GEOG 4500 Geography of the Middle East

Four of the following topical courses (12 hours)

- 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 4540 Geography of Native Americans
 GEOG 4550 Global Issues

In addition to major courses, the student must meet the following requirements:

1. A cognate of 18 hours:

ANTH 2010	Cultural Anthropology
P S 1010	Foundations of Government
P S 3210	International Relations
P S 4220	World Politics OR
GEOG 4330	Political Geography
P S 4240	American Foreign Policy
SOC 1010	Introductory Sociology
2. A minor in professional education. Student must contact advisor in professional education for approval of appropriate courses for licensure. For specific procedures and additional requirements for teacher licensure, see appropriate catalog section.

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.

Required courses: (26 hours)

- GEOG 1030 Physical Geography
 GEOG 4360 Cultural Geography
 GEOG 3401 or 3402 Field Course
 GEOG 4550 Global Issues
 GEOG 4490 Remote Sensing
 GEOG 4520 Image Interpretation
 GEOG 4530 Geographic Information Systems

Four of the following regional courses: (12 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 3450 Geography of Australia and Oceania
 GEOG 3460 Geography of the Former Soviet Union
 GEOG 3470 Geography of Africa
 GEOG 4500 Geography of the Middle East

Four of the following topical courses: (12 hours)

- GEOG 3720 Cultural Ecology
 GEOG 4280 Special Problems and Topics in Geography
 GEOG 4300 Military Geography
 GEOG 4310 Resource and 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
 GEOG 4560 Archeo-Geography
 GEOG 4772 Field Course in Historical Archaeology

Two minors are required. These are to be selected in consultation with and approved by the academic advisor.

Concentration: GeographyCareer 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.

Required courses: (28 hours)

GEOG 1030 Physical Geography
 GEOG 3401 or 3402 Field Course OR
 GEOG 3401 or 3402 Field Course
 GEOG 4020 Geomorphic Regions of the United States
 GEOG 4490 Remote Sensing
 GEOG 4510 Laboratory Problems in Remote Sensing
 GEOG 4520 Image Interpretation
 GEOG 4530 Geographic Information Systems

Departmental Elective (3 hours)

Two minors are required. These are to be selected in consultation with and approved by the academic advisor.

Minor in Geography

The minor in Geography requires 18 semester hours 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: GeologyCareer Pattern: **Geology**

This program is designed for students who plan to become professional geologists or who wish to pursue graduate study in geology. The curriculum consists of the following, plus an approved Field Camp in western North America (at least 4 hours):

Required courses:

GEOG 1040 Physical Geology*
 GEOG 1050 Historical Geology
 GEOG 3000 Mineralogy
 GEOG 3050 Field Methods in Geology
 GEOG 3060 Computer Methods in Geology
 GEOG 3160 Geologic Literature and Report Writing
 GEOG 4000 Petrology and Petrography
 GEOG 4020 Geomorphic Regions of the United States
 GEOG 4030 Invertebrate Paleontology
 GEOG 4070 Sedimentation and Stratigraphy
 GEOG 4080 Structural Geology
 GEOG 4100 Geophysical Prospecting
 GEOG 4120 Environmental Geology OR
 GEOG 4130 Hydrogeology
 GEOG 4580 Seminar in Geology
 Plus 3 hours of geology electives

*Not required of students with an A or B in both GEOG 1030 and GEOG 1031

Geology electives to be chosen from the following: (3 hours)

GEOG 3010 Oceanography
 GEOG 4140 Inorganic Geochemistry
 GEOG 4110 Earth Geophysics
 GEOG 4150 Environmental Applications of Hydrogeology
 GEOG 4160 Geologic Remote Sensing

Cognate (24 hours)

BIOL 1110 General Biology (w/lab)
 CHEM 1110, 1111 General Chemistry (w/lab)
 CHEM 1120, 1121 General Chemistry (w/lab)
 MATH 1910 Calculus I
 MATH 1920 Calculus II
 PHYS 2010 Non-Calculus-Based Physics I (w/lab) OR
 PHYS 2110 Calculus-Based Physics (w/lab)

Second semester physics (PHYS 2020 or 2120 [with lab]) may be substituted for BIOL 1110. Fortran Programming, CSCI 1160, or Computer Science I, CSCI 1170, and Probability and Statistics, MATH 2050, are strongly recommended.

In addition to the cognate, a minor is required and must be approved in consultation with the academic advisor.

Concentration: GeologyCareer 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** requires a minimum of 34 semester hours. Two minors are required, one of which **must** be in Chemistry, Physics, or Biology. The second minor will be selected by the student and approved by the major academic advisor.

Required courses: (16-20 hours)

GEOG 1040 Physical Geology*
 GEOG 1050 Historical Geology
 GEOG 3010 Oceanography
 GEOG 3050 Field Methods in Geology
 GEOG 3060 Computer Methods in Geology
 GEOG 4020 Geomorphic Regions of the United States

*Not required of students with an A or B in both GEOG 1030 and GEOG 1031

Electives to be chosen from the following: (18 hours)*

ABAS 3340 Soil
 GEOG 3000 Mineralogy
 GEOG 4000 Petrology and Petrography
 GEOG 4030 Invertebrate Paleontology
 GEOG 4050 Meteorology
 GEOG 4070 Sedimentation and Stratigraphy
 GEOG 4080 Structural Geology
 GEOG 4090 Problems in Geology
 GEOG 4100 Geophysical Prospecting
 GEOG 4110 Earth Geophysics
 GEOG 4120 Environmental Geology
 GEOG 4130 Hydrogeology
 GEOG 4150 Environmental Applications in Hydrogeology

*22 hours if GEOG 1040 not taken

Concentration: Geology

Career Pattern: **Earth Science for Teachers**

The **Earth Science for Teachers** curriculum requires 64 hours and is for those desiring to teach earth science in the secondary schools.

Required for Major (30) hours

22 Required Hours:

GEOL 1040 Physical Geology
 GEOL 1050 Historical Geology
 GEOG 1030 Physical Geography
 GEOL 3401 or 3402 Field Course
 GEOL 4050 Meteorology
 ASTR 3400 Fundamentals of Astrophysics

Remaining hours to be selected from University General Studies program

Additional 27 hours required:

CHEM 1010, 1011, and 1020, 1021 OR
 CHEM 1110, 1111, and 1120, 1121
 PHYS 2010 and 2011 and 2020 and 2021
 BIOL 1110 and 1120
 MATH 1720 (may also be included in General Studies)

Eight (8) 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 4120 Environmental Geology
 GEOL 4130 Hydrogeology
 GEOG 4310 Resource Management and Conservation
 GEOG 4490 Remote Sensing
 ABAS 3340 Soil

One minor must be in Secondary Education. The second minor is chosen by the student and approved by the major academic advisor.

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 20 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

The 11 hours of departmental core requirements should be completed.

Students electing to pursue the Remote Sensing minor should consult with the director, division of geography, because of specialized requirements and the need to prearrange for use of satellite imagery facilities.

Courses in Geography [GEOG]

Basic Courses

- 1030 (233) 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 (200) Introduction to Regional Geography.** Three credits. A nontechnical examination of world regions and problems resulting from the geographic environment.
- 3120 (312) 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- (340 A, B) 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 director, division of geography.
- 3410 (341) Geography of the United States and Canada.** Three credits. Natural, cultural, and geographic environment of these regions.
- 3420 (342) Geography of Latin America.** Three credits. Geographic regions of Mexico, Central America, the West Indies, and South America.
- 3430 (343) 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 (344) 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.
- 3450 (345) Geography of Australia and Oceania.** Three credits. Physical and cultural geography of Australia, New Zealand, and the islands of the Southwest Pacific.
- 3460 (346) Geography of the Former Soviet Union.** Three credits. Analysis of the natural, cultural, and human-use regions of the former Soviet Union.
- 3470 (347) 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 (450) 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 ecological 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.
- 4280 (428) 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 (430) Military Geography.** One credit. An examination of geography as applied to the conduct of military forces in pursuing and securing national objectives.
- 4310 (431) Resource Management and Conservation.** Three credits. Current problems related to intelligent use and management of environmental resources.
- 4320 (432) Economic Geography.** Three credits. Relationship of the physical factors of the environment to the productive occupations of humans and the distribution of products.
- 4330 (433) Political Geography.** Three credits. Significance of geographical factors in understanding political relationships within and among nations; spatial implications of political decision-making processes.
- 4340 (434) 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 (436) 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 (437) 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 (438) 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 (447) 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 (448) 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 (449) Remote Sensing.** Four credits. The various vehicles 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 (451) Laboratory Problems in Remote Sensing.** Four credits. Computer processing of selected satellite imagery. Laboratory will provide practical experience through design, execution, and completion of an applied remote sensing project.
- 4520 (452) Image Interpretation.** Four credits. Principles, methods, and techniques of image interpretation, including maps, satellite data, and aerial photos.
- 4530 (453) Geographic Information Systems.** Four 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 (454) 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 geoarcheologically 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 (455) 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.
- 4560 (456) Archeo-Geography.** Three credits. Survey of geographical, archeological, and historical techniques used in spatial and temporal interpretation of past cultural geographical landscapes.
- 4571- (457 A, B) Internship in Geography.** Three credits each. Prerequisites: Major or minor in geography; 15 hours of geogra-



phy/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 (477B) 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 (100) 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 meet a 4-hour science requirement for General Studies Area IV-A.

1031 (100L) Introduction to Earth Science Lab. One credit. Laboratory to accompany GEOL 1030.

1040 (201) 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 maps and geologic maps. Three hours lecture and two hours laboratory per week.

1050 (202) 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 (300) Mineralogy. Five credits. Prerequisites: GEOL 1030 and 1031 or 1040 plus CHEM 1110 and 1120 or permission of instructor. Crystallography and crystal chemistry. Physical and chemical properties of silicate and non-silicate mineral groups. Principles of thermodynamics and kinetics as related to the formation of minerals. Examination of the common rock-forming minerals in hand sample and thin section. Four hours lecture and two hours laboratory per week.

3010 (301) 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 (316) 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.

3401-3402 (340 C, D) 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.

4000 (400) 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 (402) 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 (403) 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 (405) Meteorology. Three credits. Prerequisites: GEOL 1030 and 1031 or 1040 or GEOG 1030, or consent of instructor. (PHYS 2010 or 2110 and CHEM 1110 recommended.) Physical laws as they relate to the atmosphere, atmospheric processes, and their effects on air masses, fronts, and atmospheric circulation; dynamics of the atmosphere and its relationship to the hydrosphere.

4060 (406) Principles of Geoscience. Four credits. Includes topics from geology, astronomy, meteorology, and oceanography. Specifically designed to aid in the preparation of earth science teachers for the public schools. Three hours lecture and two hours laboratory per week.

4070 (407) Sedimentation and Stratigraphy. Four credits. Prerequisites: GEOL 1030 and 1031 or 1040; 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 (408) 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 (409) 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 (410) 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.

4110 (411) Earth Geophysics. Three credits. Prerequisites: MATH 1910 and 1920; PHYS 2010 or 2110; or consent of instructor (PHYS 2020 or 2120 and GEOL 1030 and 1031 or 1040 recommended). Earth's seismicity, magnetism, heat, and radioactivity. History and mechanics of the earth-moon system, earth rotation, and oscillation discussed.

4120 (412) 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 (413) 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 (414) Inorganic Geochemistry. Three credits. Prerequisites: CHEM 1120 and 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 (415) 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.

4160 (416) Geologic Remote Sensing. Two to three credits. Prerequisite: GEOL 1030 or 1040 or permission of instructor. Application of satellite and airborne images to geologic and hydrologic problems. Remote sensing techniques include visible/infrared and radar imaging. Problems examined include petroleum and mineral exploration, earthquake and volcanic hazards, ground-water transport, flooding, and other topics of current interest. Some applications in planetary geology discussed. Includes practical experience with image processing and image interpretation. Two or three hours lecture/laboratory per week.

4170 (417) Geochemical Techniques. 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- (457 C, D) Internship in Geology. Three credits each. Prerequisites: Major 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 (458) 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.

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.

Honors College

The Department of Geography and Geology offers the following courses in Honors: GEOG 2000 (200H), GEOL 1030 (100H).

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 in 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 colleges as the progressive institution continued to change. In 1998, MTSU’s Honors Program changed to the Honors College, the first in the state.

Since 1911, MTSU has graduated more than 72,500 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 19,000 students, and a faculty of over 700, 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. The University celebrates its 90th anniversary on September 11, 2001.



School of Music

Roger Kugler, Director
Wright Music Building 150

Aliquo, Applegate, Bills, Boone, Bundage, Cancryn, Davila, Foy, Hansbrough, Hahn, Harb, Isley-Farmer, Jolley, Landry, Linton, Loucky, Murphy, Perkins, Petrescu, Pigg, Shapira, Shearon, Smith, Tipps, Trujillo, Waldecker, Wells, Yelverton

The purposes of the 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 that 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 MTSU 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 and Vocal/General Music K-12 are accredited by the National Council for Accreditation of Teacher Education (NCATE).

The 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 International Programs and Services Office, (615) 898-2238, and check the consortia Web sites at www.kiis.org and 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 Bachelor of Music majors and Music 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 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 School of Music Undergraduate Student Handbook* that serves as the official document of the School of Music concerning specific additional degree requirements and school policies and procedures. It is essential that all Music majors consult their advisors each semester.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

All Bachelor of Music Concentrations Require the Following:

General Studies Requirements - 40 hours
(Area II-B substitution MUTH 1110 and 1120)

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 program. Students should see their advisor 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 K-12 Music Education, (2) minor in professional education, (3) the General Studies Program, and (4) the Enhanced Gen-

eral Education requirements. Students must contact a minor advisor in professional education for additional details and requirements relating to Teacher Licensure (see page 184).

Jury Examinations

All Music majors and Music minors are required to participate in jury examinations in their primary performing area. 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 recital during the semester may be excused from a jury examination.

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 3230	Instrumental Materials	2
MUED 3240	Band Organization	2
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
MUTH 4110	Form and Analysis	3
MUEN 3---	Ensembles**	10
MUAP 2---	Private Instruction	4
MUAP 4---	Private Instruction	3
MUED 2320	Instrumental Music Lab (1+1)	2
MUED 2000	Philosophy and Introduction to Music Education	2
MUPD 3050	Jazz Pedagogy	2
MUS 3150	Advanced Instrumental Conducting	2
MUAP 4800	Partial Senior Recital	1
SUB-TOTAL		45

**not required if piano major instrument*

**Ensembles

Primary Instrument: Brass, Woodwind, Percussion

Three hours from:

MUEN 3100

5 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**6 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

4 hours from:

MUEN 3--- (elective ensemble)

Primary Instrument: Guitar**4 hours from:**

MUEN 3720

2 hours from:

MUEN 3200, 3210, 3220, 3230, 3260

4 hours from:

MUEN 3--- (elective ensemble)

Professional Education

FOED 1110	Education as a Profession	3
FOED 2110	Educational Psychology	3
SPED 3010	Survey of the Exceptional Child	3
SPSE 3220	Technology in Teaching	3
YOED 3050	Analysis of Effective Teaching	3
YOED 4000	Managing the Classroom for Instruction	3
YOED 4110	Directed Teaching, Grades 7-12	12
SUB-TOTAL		30

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	1
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
MUTH 4110	Form and Analysis	3
MUPD 2---	Diction for Singers II, III, or IV	2
MUEN 3---	Ensembles**	10
MUAP 2371	Private Instruction-Voice	4
MUAP 4371	Private Instruction-Voice	3
MUAP 4800	Partial Senior Recital	1
SUB-TOTAL		45

*not required if piano major instrument

****Ensembles****Primary Instrument: Piano****3 hours from:**

MUEN 3000

2 hours from:

MUEN 3730

5 hours from:

MUEN 3200, 3210, 3220, 3230, 3260

Primary Instrument: Voice**5 hours from:**

MUEN 3200, 3230

2 hours from:

MUEN 3210, 3220

3 hours from:

MUEN 3--- (elective ensemble)

Primary Instrument: Organ**3 hours from:**

MUEN 3000

2 hours from:

MUEN 3730

5 hours from:

MUEN 3200, 3210, 3220, 3230, 3260

Primary Instrument: Guitar**3 hours from:**

MUEN 3200, 3210, 3220, 3230, 3240, 3260

5 hours from:

MUEN 3720

2 hours from:

MUEN 3--- (elective ensemble)

Professional Education

FOED 1110	Education as a Profession	3
FOED 2110	Educational Psychology	3
SPED 3010	Survey of the Exceptional Child	3
SPSE 3220	Technology in Teaching	3
YOED 3050	Analysis of Effective Teaching	3
YOED 4000	Managing the Classroom for Instruction	3
YOED 4110	Directed Teaching, Grades 7-12	12
SUB-TOTAL		30

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**	9
MUAP 2371	Private Instruction-Voice	6
MUAP 4371	Private Instruction-Voice	12
	Foreign Language	9
MUAP 4900	Senior Recital	2
SUB-TOTAL		59
	Electives	12

****Ensembles****6 hours from:**

MUEN 3200, 3210, 3220, 3230, 3260

3 hours from:

MUEN 3250

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
MUTH 4110	Form and Analysis	3
MUPD 41--	Advanced Pedagogy	2
MUHL 47--	Instrumental Literature	2
MUEN 3---	Ensembles**	16
MUAP 2---	Private Instruction	8
MUAP 4---	Private Instruction	12
MUAP 4900	Senior Recital	2
SUB-TOTAL		52
Free Electives		14

**Ensembles

Primary Instrument: Brass

6 hours from:

MUEN 3110, 3120

3 hours from:

MUEN 3710

3 hours from:

MUEN 3260 (as assigned by private instructor)

2 hours from:

MUEN 3300, 3400, 3700, 3710 (as assigned by private instructor)

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 4---	Advanced Pedagogy	2
MUEN 3---	Ensembles**	10
MUAP 2411	Private Instruction-Guitar	8
MUAP 4411	Private Instruction-Guitar	12
MUAP 4900	Senior Recital	2
SUB-TOTAL		47
Free Electives		19

**Ensembles

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	2
MUEN 3---	Ensembles**	10
MUAP 2351	Private Instruction-Piano	8
MUAP 4351	Private Instruction-Piano	12
Foreign Language		9
MUAP 4900	Senior Recital	2
SUB-TOTAL		52
Free Electives		14

**Ensembles

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**	10
MUAP 2361	Private Instruction-Organ	8
MUAP 4361	Private Instruction-Organ	12
Foreign Language		9
MUAP 4900	Senior Recital	2
SUB-TOTAL		52
Free Electives		14

****Ensembles****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	6
MUAP 4800 Partial Senior Recital	1
MUEN 3--- Ensembles**	8
MUAP 2--- Private Instruction	4
MUAP 4--- Private Instruction	4
Music Electives (3 of which must be upper division 3000- or 4000-level courses)	6
SUB-TOTAL	40

not required if piano major instrument*9 hours from:**INFS 2200; ACTG 3000; BLAW 3400, 3430; MGMT 3610;
MKT 3820**All students must complete RI minor**9
16****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

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	2
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--- Private Instruction	4
MUAP 4--- Private Instruction	4
MUAP 4900 Senior Recital	2
MUEN 3--- Ensembles**	12
SUB-TOTAL	55

Free Electives

15

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

5 hours from:

MUEN 3--- (elective ensembles)

Primary Instrument: Piano**1 hour from:**

MUEN 3200, 3210, 3220, 3230, 3240, 3250, 3260

4 hours from:

MUEN 3000

2 hours from:

MUEN 3730

5 hours from:

MUEN 3--- (elective ensembles)

Primary Instrument: Organ**4 hours from:**

MUEN 3200, 3210, 3220, 3230, 3240, 3250, 3260

3 hours from:

MUEN 3000

5 hours from:

MUEN 3--- (elective ensembles)

Primary Instrument: Brass and Woodwinds**4 hours from:**

MUEN 3300

4 hours from:

MUEN 3100, 3110, 3120

1 hour from:

MUEN 3200, 3210, 3220, 3230, 3240, 3250, 3260

3 hours from:

MUEN 3--- (elective ensembles)

Primary Instrument: Orchestral Strings**8 hours from:**

MUEN 3300

1 hour from:

MUEN 3200, 3210, 3220, 3230, 3240, 3250, 3260

2 hours from:

MUEN 3740

1 hour from:

MUEN 3--- (elective ensembles)

Primary Instrument: Percussion**5 hours from:**

MUEN 3110, 3120

2 hours from:

MUEN 3300

4 hours from:

MUEN 3500

1 hour from:

MUEN 3400, 3410, 3430, 3200, 3210, 3220, 3230, 3240

Primary Instrument: Voice**6 hours from:**

MUEN 3200, 3210, 3220, 3230, 3240, 3260

3 hours from:

MUEN 3250

3 hours from:

MUEN 3--- (ensemble electives)

Concentration 7: Jazz Studies

SOC 4170, HIST 2040, OR HIST 2050 3

and 3

MUTH 3170, MUHL 3130, OR MUTH 4190 3

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 Commercial Arranging 2

MUTH 4180 Improvisation I 2

MUTH 4280 Jazz Arranging II 3

MUTH 4380 Improvisation II 2

MUAP 2--- Private Instruction 8

MUAP 4--- Private Instruction (Jazz) 4

MUEN 3--- Ensembles** 12

MUAP 4800 Partial Senior Recital 1

SUB-TOTAL 54

Free Electives 12

not required if piano major instrument***Ensembles****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 3090 History of Jazz 3

MUHL 3130 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 3090 History of Jazz 3

MUHL 3120 Masterworks of Classical Music 3

MUHL 3130 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 (101) 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 (MUHL 210) Introduction to Music.** Three credits. A general course in listening to music. A variety of styles and composers presented. Required for state secondary certificate.
- 1510 (151) 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 (152) 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 (153) 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 (154) 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 (155) Class Guitar I.** One credit. Beginning guitar playing, teaching basic techniques through chording and melodic elements.
- 1560 (156) 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 (253) 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 (254) 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 (266) 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 (267) 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 (314) Basic Conducting.** Two credits. Prerequisites: MUTH 2120. Interpretation of scores, fundamental diagrams with and without baton, terminology, and stage deportment.
- 3150 (315) Advanced Instrumental Conducting.** Two credits. Prerequisite: 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 (316) Advanced Choral Conducting.** Two credits. Prerequisite: 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.
- 4030 (MUED 403 A-Z) Problems in Music.** One, two, or three credits. Prerequisite: Permission of instructor. Independent study conducted on selected music topics. (A maximum of 6 semester hours may be applied toward a degree.)
- 4270 (427) 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.
- 4570 (457) 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 School of Music Office. One-credit lessons are one one-half hour lesson per week. Two-credit lessons are for Music majors only and are for one one-hour 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.

2351	(235)	Piano. One credit.
2361	(236)	Organ. One credit.
2371	(237)	Voice. One credit.
2381	(238)	Violin. One credit.
2391	(239)	Violoncello. One credit.
2401	(240)	String Bass. One credit.
2411	(241)	Guitar. One credit.
2421	(242)	Flute/Piccolo. One credit.
2431	(243)	Oboe/English Horn. One credit.
2441	(244)	Clarinet. One credit.
2451	(245)	Bassoon. One credit.
2461	(246)	Saxophone. One credit.
2471	(247)	Trumpet. One credit.
2481	(248)	French Horn. One credit.
2491	(249)	Trombone. One credit.
2501	(250)	Baritone/Euphonium. One credit.
2511	(251)	Tuba. One credit.
2521	(252)	Snare Drum/Keyboard Percussion. One credit.
2531	(253)	Drum Set/Latin Percussion. One credit.
2541	(254)	Timpani/Keyboard Percussion. One credit.
2551	(255)	Harpichord/Continuo. One credit.
2561	(256)	Viola. One credit.
2342	(234A)	Composition. Two credits.
2352	(235A)	Piano. Two credits.
2362	(236A)	Organ. Two credits.
2372	(237A)	Voice. Two credits.
2382	(238A)	Violin. Two credits.
2392	(239A)	Violoncello. Two credits.
2402	(240A)	String Bass. Two credits.
2412	(241A)	Guitar. Two credits.
2422	(242A)	Flute/Piccolo. Two credits.
2432	(243A)	Oboe/English Horn. Two credits.
2442	(244A)	Clarinet. Two credits.
2452	(245A)	Bassoon. Two credits.
2462	(246A)	Saxophone. Two credits.
2472	(247A)	Trumpet. Two credits.
2482	(248A)	French Horn. Two credits.
2492	(249A)	Trombone. Two credits.
2502	(250A)	Baritone/Euphonium. Two credits.

2512	(251A)	Tuba. Two credits.
2552	(252A)	Harpichord/Continuo. Two credits.
2562	(256A)	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 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 lesson is one one-half hour lesson per week. Two- and three-credit lessons are for music majors only and are for one one-hour 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 \$110 for a one-hour lesson and \$55 for a half-hour lesson.

4351	(435)	Piano. One credit.
4361	(436)	Organ. One credit.
4371	(437)	Voice. One credit.
4381	(438)	Violin. One credit.
4391	(439)	Violoncello. One credit.
4401	(440)	String Bass. One credit.
4411	(441)	Guitar. One credit.
4421	(442)	Flute/Piccolo. One credit.
4431	(443)	Oboe/English Horn. One credit.
4441	(444)	Clarinet. One credit.
4451	(445)	Bassoon. One credit.
4461	(446)	Saxophone. One credit.
4471	(447)	Trumpet. One credit.
4481	(448)	French Horn. One credit.
4491	(449)	Trombone. One credit.
4501	(450)	Baritone/Euphonium. One credit.
4511	(451)	Tuba. One credit.
4521	(452)	Snare Drum/Keyboard Percussion. One credit.
4531	(453)	Drum Set/Latin Percussion. One credit.
4541	(454)	Timpani/Keyboard Percussion. One credit.
4551	(455)	Harpichord/Continuo. One credit.
4561	(456)	Viola. One credit.
4342	(434A)	Composition. Two credits.
4352	(435A)	Piano. Two credits.
4362	(436A)	Organ. Two credits.
4372	(437A)	Voice. Two credits.
4382	(438A)	Violin. Two credits.
4392	(439A)	Violoncello. Two credits.
4402	(440A)	String Bass. Two credits.
4412	(441A)	Guitar. Two credits.
4422	(442A)	Flute/Piccolo. Two credits.

- 4432 (443A) **Oboe/English Horn.** Two credits.
 4442 (444A) **Clarinet.** Two credits.
 4452 (445A) **Bassoon.** Two credits.
 4462 (446A) **Saxophone.** Two credits.
 4472 (447A) **Trumpet.** Two credits.
 4482 (448A) **French Horn.** Two credits.
 4492 (449A) **Trombone.** Two credits.
 4502 (450A) **Baritone/Euphonium.** Two credits.
 4512 (451A) **Tuba.** Two credits.
 4552 (452A) **Harpichord/Continuo.** Two credits.
 4562 (466A) **Viola.** Two credits.

Three credit private lessons 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 this three-credit course meets for the same length of time as a two-credit private lesson, students enrolled are expected to spend more time in preparation for their three-credit lesson and perform more repertoire during the course of the semester as assigned by the instructor.

- 4353 (435B) **Piano.** Three credits.
 4363 (436B) **Organ.** Three credits.
 4373 (437B) **Voice.** Three credits.
 4383 (438B) **Violin.** Three credits.
 4393 (439B) **Violincello.** Three credits.
 4403 (440B) **String Bass.** Three credits.
 4413 (441B) **Guitar.** Three credits.
 4423 (442B) **Flute.** Three credits.
 4433 (443B) **Oboe/English Horn.** Three credits.
 4443 (444B) **Clarinet.** Three credits.
 4453 (445B) **Bassoon.** Three credits.
 4463 (446B) **Saxophone.** Three credits.
 4473 (447B) **Trumpet.** Three credits.
 4483 (448B) **French Horn.** Three credits.
 4493 (449B) **Trombone.** Three credits.
 4503 (450B) **Baritone/Euphonium.** Three credits.
 4513 (451B) **Tuba.** Three credits.
 4523 (452B) **Percussion.** Three credits.
 4553 (455B) **Harpichord/Continuo.** Three credits.
 4563 (456B) **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 (234A) **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 (380) **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 (404) **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 (434A) **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 (480) **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 (490) **Senior Recital.** One credit. 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 (121) **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 (131) **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 (132) **Percussion I.** One credit. Building performance ability on snare drum in all styles of playing.
- 1330 (133) **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 (141) **Strings I.** One credit. Instruction in the elements of stringed instrument playing. The student will select one instrument of the string group and continue with its study through one semester.
- 2000 (200) **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 (201) 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 (221) Instrumental Techniques for Music Classroom.** One credit. Prerequisite: MUED 2000. Learning to play the recorder, guitar, mallet, autoharp, and basic percussion instruments with teaching application to school music.
- 2310 (231) 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 (232) 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 (319) 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 (320) 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 (321) Music in the Elementary Grades for Non-Music Majors.** Three credits. Prerequisite: MUED 2000 and coursework equal to music fundamentals or equivalent competencies. 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 pitch and non-pitch percussion, and simple wind instruments. Pedagogical trends and methods; analysis for understanding and appreciation.
- 3220 (322) Choral Music in the Middle and Senior High School.** Three 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 (323) Instrumental Materials.** Two 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 (324) Band Organization.** Two credits. Basic organization and administration of a practical band program. Instrumentation planning in the feeder program; financing.
- 3250 (325) Marching Band Techniques.** Two credits. Basic drill, principles of showmanship, and show planning for the band.
- 3310 (331) 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 (332) Percussion II.** One credit. Prerequisite: MUED 1320. Acquaints the Music major with the principal percussion instruments including the Afro-Indo-Latin groups.
- 3330 (333) 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 (335) 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.
- 4000 (400 A-Z) Problems in Music Education.** Two credits. Prerequisite: Permission of instructor. (A maximum of 6 semester hours may be applied toward a degree.)
- 4210 (421) 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 (422) 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 (423) Secondary School Methods and Materials.** Prerequisite: MUEN 3230. Two credits. The role of music and music teaching in secondary education; its objectives, methods, materials, and procedures; innovative trends and exemplary practices; evaluative techniques.
- 4240 (424) 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, group dynamics.
- 4250 (425) 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 score.
- 4260 (426) 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 (467) Music for the Young Child.** Four credits. Music fundamentals, materials, and methods appropriate for pre-school through grades 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 Music majors and minors. Any MTSU student is eligible to enroll in any School of Music ensemble. All students must have permission of the instructor or audition for placement in an appropriate en-

semble. Contact the music office for additional information. All music ensembles may be repeated for credit.

- 3000 (300) 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 (310) The Band of Blue Marching Band.** One credit per semester. Participation in all phases of the band, including rehearsals and appearances.
- 3110 (311) Symphonic Band.** One credit each semester. Preparation and public performance of concert and repertoire. Open by audition.
- 3120 (312) Wind Ensemble.** One credit each semester. Preparation and public performance of concert band and wind band repertoire. Open by audition.
- 3200 (320) Concert Chorale.** One credit each semester. Participation in all phases of chorus, including rehearsals and appearances.
- 3210 (321) 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 (322) Women's Chorus.** One credit each semester. Preparation and public performance of treble clef choral repertoire.
- 3230 (323) Schola Cantorum.** One credit each semester. Preparation and public performance of English madrigals and traditional American choral repertoire. Open by audition.
- 3240 (324) MTSU Singers.** One credit each semester. Participation and public performances of a variety of popular and commercial music. Open by audition.
- 3250 (325) 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 (326) University Chorus.** One credit each semester. Preparation and public performance of a variety of choral repertoire. Open by audition.
- 3300 (330) University Orchestra.** One credit each semester. Participation in all phases of the orchestra, including rehearsals and appearances.
- 3400 (340) Jazz Ensemble.** One credit each semester. A performing organization providing instruction and experience in playing jazz.
- 3410 (341) Salsa Band.** One credit each semester. Preparation and public performance of appropriate repertoire. Open by audition.
- 3420 (342) Commercial Music Ensemble.** One credit each semester. Acquaints the student with the rehearsal and performance of commercial music.
- 3430 (343) Jazz Combo.** One credit each semester. Preparation and public performance of appropriate repertoire. Open by audition.
- 3500 (350) Percussion Ensemble.** One credit each semester. Performance of percussion ensemble literature. Programs are presented.
- 3700 (370) Mixed Chamber Ensemble.** One credit each semester. Preparation and public performance of music literature appropriate to the ensemble.
- 3710 (371) Brass Chamber Ensembles.** One credit each semester. Preparation and public performance of appropriate chamber music repertoire. Open by audition.
- 3720 (372) Guitar Chamber Ensembles.** One credit each semester. Preparation and public performance of appropriate chamber music. Open by audition.
- 3730 (373) Piano Chamber Ensembles.** One credit each semester. Preparation and public performance of appropriate chamber music. Open by audition.
- 3740 (374) String Chamber Ensemble.** One credit each semester. Preparation and public performance of appropriate chamber music. Open by audition.
- 3750 (375) 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 (161) 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 (162) 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 (261) 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 (262) 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 (291) 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 (312) 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 (367) 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 (406) Survey of Guitar Literature.** Two credits. Basic literature for the guitar from the Renaissance to the present. Analysis, listening, research, and performance.
- 4130 (313) Survey of World Music.** Three credits. Selected music cultures from around the world and here at home. Listening, watching, reading, and concert attendance.
- 4530 (309) 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 (463) 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 (464) 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 (465) 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 post-modern eras.
- 4660 (466) 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, and art, as well as sacred and secular traditions within their cultural and historical contexts.
- 4680 (468) Choral Literature.** Two credits. Examination of choral literature from the Renaissance to the present. Program selection. Analysis of choral pieces.
- 4690 (469) Piano Literature.** Two 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 (471) Vocal Literature.** Three credits. Basic repertory of Italian airs, German lieder, French art song, and solo vocal works of other nationalistic schools, as well as English and American song literature.
- 4720 (472) 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 (473) 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, historical perspective of styles, types, and common performance practice.
- 4740 (474) 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, historical perspective of styles, types, and common performance practice.
- 4750 (475) 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, historical perspective of styles, types, and common performance practice.
- 4760 (476) 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, historical perspective of styles, types, and common performance practice.

Courses in Music Pedagogy [MUPD]

- 2180 (218) 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 (219) 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 (220) 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 (221) 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 (305) Jazz Pedagogy.** Two credits. Techniques and methods of teaching jazz studies including the training of jazz ensembles and combos.
- 4110 (411) Advanced Brass Pedagogy.** Two credits. Advanced study of conceptual, physiological, acoustical, pedagogical methods and materials used in the teaching of beginning, intermediate, and advanced brass students.
- 4120 (412) Advanced Percussion Pedagogy.** Two credits. Advanced study of conceptual, physiological, acoustical, pedagogical methods and materials used in the teaching of beginning, intermediate, and advanced percussion students.
- 4130 (413) Advanced String Pedagogy.** Two credits. Advanced study of conceptual, physiological, acoustical, pedagogical methods and materials used in the teaching of beginning, intermediate, and advanced string students.
- 4140 (414) Advanced Woodwind Pedagogy.** Two credits. Advanced study of conceptual, physiological, acoustical, pedagogical methods and materials used in the teaching of beginning, intermediate, and advanced woodwind students.
- 4310 (431) Vocal Pedagogy.** Two credits. Techniques for teaching the fundamentals of singing. Vocalises and repertoire. Physical aspects of singing.

- 4320 (432) 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 (433) 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.

Courses in Music Theory [MUTH]

- 1000 (100) 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 (111) 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 Solfege through chorale analysis and harmonizations of given bass lines. Major and minor scales and harmonizations through secondary function
- 1120 (112) Theory and Aural Skills II.** Four credits. Prerequisite: MUTH 1110. Harmonic tonality and fixed-do Solfege through chorale analysis and harmonizations of given bass lines. Modal scales, harmonization, and analysis through the augmented sixth.
- 2110 (211) Theory and Aural Skills III.** Three credits. Prerequisite: MUTH 1120. Harmonic tonality and twentieth century vocabularies. Nineteenth century chromaticism.
- 2120 (212) Theory and Aural Skills IV.** Three credits. Prerequisite: MUTH 2110. Continued study of harmonic tonality and twentieth century vocabularies. Twentieth century practices.
- 3020 (302) 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 (311) 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 (316) 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 (317) 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 (411) Form and Analysis.** Three credits. Prerequisite: MUTH 2120. Binary and ternary forms, simple rondos and sonatas 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 (413) Instrumentation.** Two credits. Prerequisite: MUTH 2120. Compass and tonal qualities of band and orchestra instruments; transposition. Fundamentals of arranging for various instrumental groupings.
- 4170 (417) 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 (418) 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 (419) 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.
- 4280 (428) 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 (429) 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 (438) 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 (459) 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

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.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

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 Studies 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	
English (Area I-A)	6	English (Area II-A)	6
Science (Area IV-A)	8	History (Area III-A)	6
PHED (Area V)	2	PHED (Area V)	2
PHIL 1030 (Area II-B)	3	Gen. Studies (Area III-B)	3
Electives as advised	13	PHIL 2110 (Area I-B), 3150	6
CSCI 1000 or equivalent	1	Electives as advised	10
	33		33

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 (201) 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 (211) Elementary Logic and Critical Thinking.** Three credits. Principles of deductive and inductive reasoning, problem solving, and the analysis of arguments in everyday language.
- 3150 (315) Ethics.** Three credits. Major ethical theories, the moral nature of human beings, the meaning of good and right.
- 3200 (320) Oriental Thought.** Three credits. The origins, development, essence, and implications of leading philosophical-religious traditions originating in the Orient.
- 3300 (330) Philosophy of Religion.** Three credits. Problems of religious experience, religious knowledge, the existence and nature of God, evil, and immortality.
- 3400 (340) Symbolic Logic.** Three credits. (Same as MATH 3400.)
- 3500 (350) 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 (360) Philosophy and Film.** Three credits. Examination of the cinematic expression of philosophical issues and development of philosophical issues in cinema.
- 3690 (369) Social Philosophy.** Three credits. The main problems of social philosophy are surveyed: the distinctive nature of social reality, the nature of social knowledge, and the relations of these to value theory.
- 4010 (401) 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 (402) History of Modern Philosophy.** Three credits. The development of philosophical thought from Hobbes to Hegel.
- 4050 (405) 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 (410) Aesthetics.** Three credits. The nature of art, aesthetic experience, and artistic creation.
- 4150 (415) Formal Logic.** Three credits. The nature and methods of formal deductive logic, truth functional logic, quantification theory, identity relations, propositional calculus.
- 4200 (420) Existentialism.** Three credits. The nature, significance, and application of the teachings of several outstanding existential thinkers.
- 4240 (424) Recent Continental Philosophy.** Three credits. The critical examination of various movements and key figures in recent European philosophy.
- 4300 (430) American Philosophy.** Three credits. Development of American thought with emphasis on naturalism, idealism, and pragmatism.

- 4400 (440) Analytic Philosophy.** Three credits. Logical empiricism, recent realism, and ordinary-language philosophy, as well as the nineteenth-century backgrounds of these movements.
- 4450 (445) Marx and Marxism.** Three credits. An examination of the development of Marxist philosophy up to and including the present.
- 4500 (450) Philosophy of Science.** Three credits. The methods, problems, and presuppositions of scientific inquiry.
- 4550 (455) 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 (460) 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 (480 A-Z) 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 (301) 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 (302) 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 (304) The History of Christianity.** Three credits. Main developments in the doctrinal affirmations of the Christian church and their Biblical background.
- 4020 (402) 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 (405) 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 (480 A-Z) Readings in Religious Studies.** Three credits. Directed study concerning a particular problem or thinker within religious studies.

Honors College

Philosophy 1030 (201H) is offered periodically.

Department of Political Science

John R. Vile, Chair
Peck Hall 209

Byrnes, Carleton, King-Meadows, Korobkov, Langenbach, Livingston, 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 and Paralegal Studies are coordinated by the department.

All students at the University must fulfill the General Studies requirements. These courses are primarily in the fields of English, history, science, PHED, and mathematics. Following are suggested curricula, but students should study the requirements carefully and consult with their advisors on those courses.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

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, 3300, 3310, 3770, 3900)
3. International relations (P S 3000, 3210, 3500, 3510, 3910, 4220, 4240)

4. Public law (P S 2440, 3010, 3370, 3380, 3500, 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 three following courses: P S 4000, 4230, 4920. Those with no concentration must take one of the following courses: P S 4230, 4700, 4920.

Recommended Curriculum

FIRST YEAR		SECOND YEAR	
English (Area I-A)	6	ENGL 2030, 2--- or	
Science (Area IV-A)	8	HUM 2610 (Area II-A)	6
Foreign Language**	6	Foreign Language**	6
PHED (Area V)	2	History (Area III-A)	6
Gen. Studies (Areas I-B, II-B)	6	PHED (Area V)	2
CSCI or equivalent	1	Mathematics (Area IV-B)	3
P S 1010* or 2010* (Area III-B)	3	P S 1010* or 2010*	3
	32	Electives/Minor	6
			32

THIRD YEAR		FOURTH YEAR	
P S 4000*	3	P S 4800*	3
Political Science	9	Political Science	12
Electives/Minor	21	Electives/Minor	21
	33		36

*Required courses

**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 an administrative career 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, 3440, 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	
English (Area I-A)	6	ENGL 2030, 2-- or	
P S 1010*, 2010* (Area III-A)	6	HUM 2610 (Area II-A)	6
Science (Area IV-A)	8	Political Science pertinent	
PHED (Area V)	2	electives	6
ECON 2410*, 2420*	6	P S 3250*, 3260**, 2020**	6
Elective	3	PHED (Area V)	2
	31	History (Area III-A)	6
		Mathematics (Area IV-B)	3
		Gen. Studies (Area II-B)	3
		Gen. Studies (Area I-B)	3
			35

JUNIOR		SENIOR	
P S 4000*, 3160**, 3440**	9	P S 4290*, 4800*	6
Political Science pertinent		P S 4590**, 4630**	6
elective	3	Political Science pertinent	
ACTG 2110, 2120	6	electives	6
INFS 3100*	3	Electives	18
Electives	15		36
	36		

*Required courses

**A minimum of any three courses out of the six

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 ENGL 3530 (or 3500).

Recommended Curriculum

FRESHMAN		SOPHOMORE	
English (Area I-A)	6	ENGL 2030, 2--- or	
P S 1010*, 2010*	6	HUM 2610 (Area II-A)	6
PHED (Area V)	2	Foreign Language or elective	6
Science (Area IV-A)	8	ECON 2410* or 2420*	
Elective	3	(Area III-B)	3
Foreign Language/Minor	6	P S 2440*	3
CSCI 1000 or equivalent	1	COMM 3210* (or 2200*)	3
	32	PHED (Area V)	2
		History (Area III-A)	6
		Gen. Studies (Area II-B)	3
		Mathematics (Area IV-B)	3
			35

JUNIOR		SENIOR	
P S 3370*, 3380*	6	P S 4230**, 4920**	6
P S 4000*	3	P S 4800**	3
PHIL 2110*	3	P S 4040	1
Minor/Electives	12	Minor/Electives	21
ENGL 3530* (or 3500*)	3	P S area requirements	3
P S area requirements	6		34
	33		

*Required courses

**A minimum of any two courses out of the three

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 1010, 3250, and 12 semester hours to be selected from P S 2020, 3050, 3060, 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, 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 4290.

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

FRESHMAN		SOPHOMORE	
English (Area I-A)	6	ENGL 2030, 2--- or	
P S 1010*, 2010*	6	HUM 2610 (Area II-A)	6
Science (Area IV-A)	8	P S 3000, 3210*, 3300,	
PHED (Area V)	2	3310	12
Electives/Minor	11	History (Area III-A)	6
CSCI 1000 or equivalent	1	PHED (Area V)	2
	34	Gen. Studies (Area I-B)	3
		Mathematics (Area IV-B)	3
			32
JUNIOR		SENIOR	
P S 4000, 3190, 3770		P S 4240*, 3910, 4220,	
or 3900	9	4800, 4920, 3180	18
ANTH 2010	3	SOC 4520	3
GEOG 3420, 3430, 3460,		ECON 4470	3
or 4500	6	GEOG 4330	3
ECON 2410, 4440 (Area III-B)	6	Electives	6
HIST 4830	3		33
Gen. Studies (Area II-B)	3		
Minor/Elective	3		
	33		

*Required courses

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 Studies requirements); minor in History (highly recommended), Economics, or Geography; and take 36 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 at least one course in three of four specified areas—American Government, Public Law, Public Administration, and Comparative Government. Students must also complete enhanced General Studies requirements including either COMM 2200 or 4000 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, 2444, 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).

Interdisciplinary Minors

Interdisciplinary minors are open to all students in the University. The Department of Political Science coordinates the interdisciplinary minors in Urban Studies and Paralegal Studies. See Interdisciplinary Minors beginning on page 72.

Courses in Political Science [P S]

Courses marked with an * are offered only in alternate years.

1010 (122) Foundations of Government. Three credits. **Meets part of the General Studies requirements (Area III-B).** Comparative theories and institutions of government. Law, constitutions, power, political socialization, ideologies, and the media.

2010 (150) American Government and Politics. Three credits. Constitutional principles, functions, and administration of American federal government; Congress, the Presidency, and the Supreme Court. **A General Studies course (Area III-B).**

2020 (328) 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 (201) 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 a mediator and an advocate 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 (244) 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 (300) 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 (301) 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 (305) 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 (406) 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 (310) 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 (316) 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 (318) 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 (319) 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 (321) 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 (325) 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 (326) 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 (330) 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 (331) Comparative Asian Governments.** Three credits. Prerequisite: P S 1010. Comparative analysis of the governmental forms and practices of China, Japan, and India.
- 3320 (332) 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 (333) 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 (335) 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 (337, 338) 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 (340) 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 (344) 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 (350) 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 (351) 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.
- 3770 (377) 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 (378) 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 inter-ethnic relations.
- 3900 (390) 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 (391) 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—peaceful settlement, collective security, international law, arms control, trusteeship, preventive diplomacy, international conferences, functionalism.*
- 4000 (400) 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 (402) 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 (404) 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 (405) 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 (411) Quantitative Methods of Research.** Three credits. (Same as ANTH 4110 and SOC 4110.) Prerequisite: P S 4000. Intermediate quantitative methods.
- 4120 (412) 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 (420) 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 (422) 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 (423) 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 (424) 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 (425) 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 (427) 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 (428) 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 (429) 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 (436) 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 (439) 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 (441) 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 (459) 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 (463) 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 (470) 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 (480) Senior Seminar. Three credits. Prerequisites: P S 1010, 2010, and senior standing. A reading and discussion seminar in which each of the seven sub-disciplinary areas of political science is looked at to broaden the major's knowledge of the scope and literature of the discipline.

4920 (492) 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 (301) Litigation. Three credits. Prerequisites: P S 2010 and 2440. Legal procedures required for introducing and pursuing cases in the judicial system.

3410 (341) 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 (342) Torts. Three credits. Prerequisites: P S 2010 and 2440. The law of injury to legally protected interests in personal safety, liberty, and property.

4010 (401) 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 (122H) (Fall)
- Political Science 2010 (150H) (Spring)
- Political Science 3370 (337H) (Fall)
- Political Science 3380 (338H) (Spring)
- Political Science 4060 (406H) (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

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.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

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, 3150, 3160, 3200, 4580, 4590, 4650, 4680, 4690, and 4700; and one of the following: S W 3050, 3170, 4150, 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.

- Requirements for admission to the Social Work Program:
 - completion of at least 60 semester hours toward a degree including at least 40 hours of General Studies requirements;
 - completion of S W 2570, Introduction to Social Work, and 3 additional hours in social work courses with a grade of C or better;
 - an overall GPA of 2.00 for degree credit courses;
 - 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;
 - possession of personal qualities consistent with social work values and ethics and the ability to relate to others with warmth and emotional stability.
- Application procedure. Student must complete an application packet which consists of
 - application for Social Work major form;
 - three reference forms, at least one of which is from an MTSU social work professor;
 - personal essay on why a social work career has been chosen;
 - current official University transcript.
- Criteria for acceptance into the Social Work Program:
 - submission of completed application packet by deadline date of the appropriate semester;
 - judgment of satisfactory quality of essay and suitability for professional social work by Social Work Faculty Admissions Committee;
 - satisfactory performance of required number of volunteer hours based on reference form;
 - 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		SOPHOMORE	
English (Area I-A)	6	English (Area II-A)	6
Science (Area IV-A)	8	PHED (Area V)	2
PHED (Area V)	2	History (Area III-A)	6
MATH 1710	3	CSCI 1000	1
SOC 1010	3	S W 2570, 2630, 3150	9
PSY 1410 (Area III-B)	3	Electives (for minor)	9
Gen. Studies (Area I-B and II-B)	6		33
Electives	2		
	33		
JUNIOR		SENIOR	
S W 3000, 3110, 3120, 3160, 3200, 4700	18	S W 4580, 4590, 4650, 4680, 4690	24
Social Work elective	3	Electives (for minor or general requirements)	9
Electives (for minor or general requirements)	12		33
	33		

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.)

Courses in Social Work [S W]

- 2570 (257) Introduction to Social Work.** Three credits. The methods, history, philosophy, and present organization of the social work profession.
- 2630 (263) Interviewing Skills for Social Work Practice.** Three credits. An introduction to principles and processes of social work practice including interviewing and developing relationships.
- 3000 (300) 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 (305) 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.
- 3110 (311) 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 (312) 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 (315) 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 (316) Human Behavior and the Social Environment.** Three credits. Prerequisites: SOC 1010 and PSY 1410. An overview of a range of explanations concerning human behavior, especially that which indicates a need for social work intervention.
- 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 recourses, 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 (320) 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.
- 4150 (415) Topics in Social Work.** Three credits. Selected topics important in current social work practice, but too specialized to be taught as regularly scheduled courses.
- 4430 (443) 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 (444) 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.
- 4580 (458) Social Work: Practice I.** Three credits. Corequisite: S W 4590; prerequisites: S W 2570, 2630, 3000, 3150, 3160, and



senior standing. Theories and related techniques for beginning-level social work. (Majors only.)

- 4590 (459) Field Instruction I.** Six credits. Corequisite: S W 4580; prerequisites: S W 2570, 2630, 3000, 3110, 3150, 3160, 3200; completion of all General Studies 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. (Majors only.)
- 4620 (462) Child Welfare Services.** Three credits. The contemporary child welfare system and services designed to strengthen families. Historical trends, policy issues, and child advocacy.
- 4640 (464) 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 (465) 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. (Majors only.)
- 4680 (468) 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. (Majors only.) Pass/Fail.
- 4690 (469) 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. (Majors only.)
- 4700 (470) 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.
- 4720 (472) Crisis Intervention.** Three credits. The basis of crisis theory applied to intervention services for suicide, rape, natural disasters, and other crises.
- 4800 (480) 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, Amey, Austin, Breault, Canak, Carroll, Eller, Heller, Johnson, Nation, Pace, Schneller, Schrift, Sherwood, Smith, Wallace

The curricula of the Department of Sociology and Anthropology are designed to serve the General Studies needs of all students, to offer training for careers in teaching and other 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.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

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. A major in Sociology may be obtained by taking 36 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 Studies requirements.

Recommended Curriculum

FRESHMAN		SOPHOMORE	
English (Area I-A)	6	ENGL 2030, 2--- or HUM 2610	
SOC 1010*	3	(Area II-A)	6
SOC elective	3	Sociology courses	6
Science (Area IV-A)	8	SOC 3040*, 3050*	6
PHED (Area V)	2	History (Area III-A)	6
Gen. Studies (Areas I-B, II-B)	6	Mathematics (Area IV-B)	3
Electives	6	PHED (Area V)	2
CSCI 1000 or equivalent	1	Gen. Studies Area III-B	3
	35		32

JUNIOR		SENIOR	
SOC 3060	3	SOC 4980*	3
SOC 3950*	3	SOC electives	3
Sociology Courses	6	Minor courses	18
Minor courses	18	Electives	9
Electives	9		33
	39		

*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 21 semester hours, including 12 hours of required courses and 9 hours of electives.

Required Courses:

SOC 4140	Violence in the Family
SOC 4300	Criminology
SOC 4310	Victimology
SOC 4540	Juvenile Delinquency

General Electives:

ANTH 3650	Forensic Anthropology
PSY 4120	Psychology of Criminal Behavior
PSY 4220	Correctional Psychology
SOC 3210	Drugs and Alcohol
SOC 3250	Deviant Behavior
SOC 4150	Topics in Sociology (with prior approval of advisor)
SOC 4240	Race and Ethnic Relations
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, 4050, and ANTH 4760. The student must choose the remaining nine hours from these courses: SOC 2500, 3400, 4140, and 4500; S W 4620; CDFS 4390.

Major: 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 2010, 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 2010, 3210, 3310, 3410, and 4890 plus 21 hours of additional anthropology courses to be chosen in consultation with the advisor.

Recommended Curriculum

FRESHMAN		SOPHOMORE	
English (Area I-A)	6	ENGL 2030, 2--- or	6
ANTH 1010 (Area III-B)	3	HUM 2610 (Area II-A)	
ANTH elective	3	ANTH 2010*, 3210*	6
Science (Area IV-A)	8	Anthropology electives	6
PHED (Area V)	2	History (Area III-A)	6
Gen. Studies (Areas I-B, II-B)	6	PHED (Area V)	2
Electives	3	Mathematics (Area IV-B)	3
CSCI 1000 or equivalent	1	Electives	6
	32		35

JUNIOR		SENIOR	
ANTH 3310*, 3410*	6	ANTH 4890*	3
Anthropology electives	6	Anthropology elective	3
Minor(s)	18	Minor(s)	18
Electives	6	Electives	12
	36		36

*Required courses

Minor in Anthropology

The minor in Anthropology requires 18 semester hours of anthropology including ANTH 1010 and 2010.

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, Health Care Services, and American Studies. See Interdisciplinary Minors beginning on page 72.

Courses in Sociology [SOC]

- 1010 (101) Introductory Sociology.** Three credits. **Meets Area III-B General Studies requirement.** Identifies basic human relationships essential to survival in modern society and assists students in understanding and applying this knowledge in their everyday lives.
- 2010 (201) Social Problems.** Three credits. A survey of problems such as poverty, social deviance, environment, energy, population, health, and medical care.
- 2100 (210) Cultural Anthropology.** Three credits. (See ANTH 2010.)
- 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 (250) Marriage and Family.** Three credits. Social, cultural, and personal factors relating to mate selection and family life.
- 2600 (260) 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 (293, 294, 397, 398) 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 (304) Methodology I.** Three credits. (Same as ANTH 3040.) Issues and strategies in the scientific study of social phenomena.
- 3050 (305) Methodology II.** Three credits. (Same as ANTH 3050.) Data analysis and interpretation.
- 3060 (306) Sociological Theory.** Three credits. Selected theories; emphasis on history, analysis, and theory construction.
- 3150 (315) Life Cycle and the Social Environment.** Three credits. (See S W 3150.)
- 3210 (321) 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 (325) Deviant Behavior.** Three credits. A general survey of the causes, types, and consequences of deviant behavior with a review of major theories of deviance and its control. Includes drug addiction, alcoholism; sexual, mental, and emotional deviances.
- 3320 (332) 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 (340) Gender and Society.** Three credits. Prerequisite: SOC 1010 or 2010. A socio-historical 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. Analysis of contemporary organizations and institutions within society with an emphasis on function, interrelationships, and development.
- 4010 (401) Social Class and Stratification.** Three credits. The origins, variations, and consequences of differentiation, stratification, and social class in society.
- 4020 (402) 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 (403) 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 (404) 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 (405) The American Family.** Three credits. Analysis of the family in American life. Contemporary American family patterns: racial, ethnic, and class variations.
- 4080 (408) Group Work with the Elderly.** Three credits. The application of group dynamics as problem-solving and intervention strategy in the delivery of services to the elderly.
- 4090 (409) Health Care Management.** Three credits. Details of the technical aspects of health care management with an emphasis on long-term care settings.
- 4100 (410) Industrial Sociology.** Three credits. Analysis of industrial, business systems, and other work units.
- 4110 (411) Quantitative Methods of Research.** Three credits. (Same as ANTH 4110 and P S 4110.) Prerequisite: SOC 3050, ANTH 3050, or equivalent. Intermediate quantitative data analysis. Includes graphing, charting, and interpreting current social data.
- 4140 (414) 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 partner, siblings, and elders. Emphasizes the social conditions which lead to these types of violence.
- 4150 (415) Topics in Sociology.** Three credits each. An in-depth study of a special topic which is significant in current sociological literature.
- 4170 (417) The Social Context of Southern Music.** Three credits. A sociohistorical 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 (420) African-American Film, Theatre, and Television Images.** Three credits. (Same as AA S 4200.) Prerequisite: SOC 1010 or PSY 1410. Survey of African-American film, theatre, and television images in relation to social movements and social policy. Human behavior theory application and sociological paradigm application required.
- 4240 (424) Race and Ethnic Relations.** Three credits. The dynamics of race and ethnic relations in the United States from a socio-historic perspective.

- 4300 (430) Criminology.** Three credits. Theories of criminal behavior, its development and incidence; punishment and methods of control and rehabilitation.
- 4310 (431) Victimology.** Three credits. Analyses of major perspectives on victimization; key social, economic, and demographic variables; differences in victimization rates within geographic areas. Emphasis on patterns of victimization, profiles of crime victims, experience of victims in criminal justice system, as well as victim assistance programs and victim compensation.
- 4360 (436) Medical Sociology.** Three credits. Health care settings, services, issues, and policies; both the recipient's and provider's roles.
- 4500 (450) 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 (451) Social Movements and Social Change.** Three credits. Comparative study of representative social movements; political, economic, religious, and ethnic.
- 4520 (452) Population and Society.** Three credits. Prerequisites: SOC 1010 and 2010 or permission of instructor. The demographic analysis of population trends and their influence on American society including principles, structure, and trends in human populations.
- 4540 (454) Juvenile Delinquency.** Three credits. Social factors related to delinquency including family, peer-group, school, and community. Includes juvenile justice system and its agents.
- 4550 (455) 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 (456) Complex Organizations and Occupations.** Three credits. Relationship of occupations to social structures. Emphasis on analysis of complex organizations as work settings.
- 4640 (464) Health: Organizations, Policy, and Ethics.** Three credits. (Same as S W 4640.)
- 4660 (466) Urban and Community Studies.** Three credits. Prerequisites: SOC 1010 and 2010 or permission of instructor. The sociology of community with an emphasis on the various models of community structure; organization, analysis, and the relationship of community to the broader context of mass society; the impact of urbanization, industrialization, and bureaucratization upon contemporary life.
- 4790 (479) Sport and Society.** Three credits. (Same as REC 4790.) Behavioral approach to the sport and leisure phenomena from the related perspectives of sociology and anthropology.
- 4800 (480) 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 (490) 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. No more than three hours may be used in the major.

- 4980 (498) Senior Seminar in Sociology.** Three credits. Prerequisites: At least 18 hours of sociology, including 1010, 3040, 3050, 3060, and senior standing. Integration of coursework in the major through critical analyses, problem solving, and application.

Courses in Anthropology [ANTH]

- 1010 (100) Introduction to Anthropology.** Three credits. **Meets Area III-B General Studies requirement.** The basic concepts of anthropology, outlining the field and illustrating current problems and applications.
- 2010 (201) Cultural Anthropology.** Three credits. (Same as SOC 2100.) **Meets Area III-B General Studies 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.
- 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.
- 3040 (304) Methodology I.** Three credits. (Same as SOC 3040.) Issues and strategies in the scientific study of social phenomena.
- 3050 (305) Methodology II.** Three credits. (Same as SOC 3050.) Data analysis and interpretation.
- 3210 (320) 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 (330) Human Origins.** Three credits. The origin and development of human life, its primate roots, ecology, and diversity.
- 3410 (341) Anthropological Linguistics.** 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 (358A) 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 (358B) 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 (358E) 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 (358F) 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 (441) Peoples and Cultures of Africa.** Three credits. (Same as AA S 3514.) The diverse peoples and cultures of Africa. History, sociocultural system, and contemporary issues and impacts resulting from globalization from an anthropological perspective.
- 3515 (442) 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 (358C) 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 (335) 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 (345) 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 (360) 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 (449) 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.
- 4110 (411) Quantitative Methods of Research.** Three credits. (Same as SOC 4110 and P S 4110.) Prerequisite: SOC 3050, ANTH 3050, or equivalent. Intermediate quantitative data analysis. Includes graphing, charting, and interpreting current social data.
- 4120 (483) 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 (478) 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 (472) 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 (471) Primitive Religion.** Three credits. A cross-cultural survey of myth and ritual in non-literate societies. Belief systems, patterns of witchcraft and magic, and the role of the ceremonial practitioner in the tribal world explored.
- 4751 (476) Ritual.** Three credits. Ritual in sacred and secular contexts. An examination of the function and logic of ritual in social systems.
- 4760 (474) Kinship and Marriage.** Three credits. The principles of family organization with cross-cultural comparisons of its structure and role in various physical and social environments.
- 4890 (485) Seminar in Anthropological Theory.** Three credits. Prerequisites: 18 hours of anthropology, including ANTH 2010, 3210, 3310, and 3410. The major anthropological theories within their historical, cultural, and political context.
- 4910 (480) 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 (470) Ethnographic Field School.** Three to six credits. Field experience in a cross-cultural setting. Training in ethnographic research techniques.
- 4950 (475) 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 (490) Anthropology Internship.** Three 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 three 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
Boutwell Dramatic Arts Building 205

Anderson, Clark, Donnell, Fischer, Garrard, Halladay, Hansen, Hillman, Johnson, Jones, Lewis, McFarland, McGilliard, Moore, Richards, Ritter, Shea, Simerly, Smith, Sniderman, Sullivan, Walker

Courses in the Department of Speech and Theatre are designed to meet the General Studies 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, Theatrical Design, and Dance are available. The department also participates in three interdisciplinary minors—Aging Studies, Health Care Services, 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.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

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 prepares students 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 Studies 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	
English (Area I-A)	6	English (Area II-A)	6
Science (Area IV-A)	8	History (Area III-A)	6
Gen. Studies (Area III-B)	3	PHED (Area V)	2
PHED (Area V)	2	THEA 1030 (Area II-B)	3
COMM 2200 (Area I-B)	3	Mathematics (Area IV-B)	3
Major/minor as advised	6	Major/minor as advised	6
Electives as advised	4	Electives as advised	8
CSCI 1000 or equivalent	1		34
	33		

All students majoring in Speech and Theatre must complete a 12-hour core curriculum to include COMM 2200 and three courses from COMM 2150, 2170, 2300, 3300, 4560, ORCO 3240, CDIS 3050, 3150, THEA 1030, 2500, 3100, 4600, and DANC 1000, provided at least one of the courses is outside the student's concentration area; a senior project must be selected and completed in the last year of enrollment under the supervision of an advisor.

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 2150, 2200, 2300, 3210, 3300, 4560, and 4700; ORCO 3240; and one course chosen from THEA 1030, 2500, 3100; CDIS 3050 and 3150. The remaining requirement must be completed with three courses from the following: COMM 2170, 3220, 3230, 4280, 4320, 4800, and 4900. Additional electives are available.

Students pursuing the Communication Studies concentration must also select at least one minor from the following: Business Administration, Business Law, Economics and Finance, Finance, Industrial Relations, Industrial/Organizational Psychology, Insurance, Insurance/Real Estate, Management, Marketing, Mass Communication, Political Science, Psychology, Public Administration, Real Estate, or other appropriate minor approved by the student's academic advisor.

Concentration: Theatre

Students pursuing the concentration in Theatre must complete the core curriculum requirement and the following required theatre courses: THEA 1030, 2110, 2500, 4800, 3100, 3200, 3700, and 4810. In addition, students must select 9 hours from the designated specialized courses in one of the following areas: acting/directing, children's theatre, costume, makeup, scenery, lighting, or sound.

Concentration: Communication Disorders

Students pursuing the concentration in Communication Disorders must complete a minimum of 45 semester hours of academic courses which includes 12 hours from the core curriculum to include CDIS 3050 and 33 additional hours as follows: CDIS 3150, 3200, 3300, 3350, 3400, 4500, 3250, 3450, 4850, and 4900 and either CDIS 4750 or 4800. Students must also complete a minimum of 10 semester hours of supervised clinical observation and practicum through enrollment in CDIS 3100, 4550-4650, and 4700-4730. 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, 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 fund raising, and corporate crisis and image communication.

Students pursuing the interdisciplinary major in Organizational Communication must complete COMM 2200, 2300, 3300, 4560, 4900, and ORCO 3240, 3250, 3500, 3750, 4250, and 4500. Students must also take advanced writing (ENGL 3500 or 3520 or BMOM 3510), statistics (SOC 3050 or PSY 3020 or Q M 2610), MGMT 3610 or RATV 4430, SOC 4560, BMOM 4660 or PSY 3320, and COMM 4560 or BMOM 4670 or PSY 4720. Students choose one minor and an additional 18 hours from a list of guided electives (see an advisor).

Students majoring in Organizational Communication must complete the General Studies requirements. The following is a suggested pattern of study for the first two years. Consult with an advisor before each registration.

Recommended Curriculum

FRESHMAN		SOPHOMORE	
English (Area I-A)	6	English (Area II-A)	6
COMM 2200 (Area I-B)	3	ORCO 3240	3
COMM 2300	3	ORCO 3250	3
INFS 1000	3	COMM 4900	1
Gen. Studies (Area II-B)	3	History (Area III-A)	6
Gen. Studies (Area III-B)	3	PHED (Area V)	2
Mathematics (Area IV-B)	3	Minor courses	6
Science (Area IV-A)	8	General elective	3
PHED (Area V)	2	Guided elective	3
	34		33

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 Theatrical Design

This minor is designed for students majoring in Human Sciences, Radio-Television/Photography, Recording Industry, Speech and Theatre, and others who plan a career in theatrical design. The minor consists of 21 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 and 3100. 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. (DANC 1010, 1020, 1030, 1040, 2010, 2020, 2030, and 2040 each may count for ONE activity credit in Area V of General Studies provided the student does not also count a comparable dance activity course completed in HPERS.)

Teacher Licensure

Students seeking a license to teach must complete (1) a major in the subject they intend to teach, (2) the Enhanced General Education requirements (these include and add to the General Studies requirements), and (3) the professional education requirements (minor). The Speech and Theatre De-

partment offers two teacher licensure programs: Speech Communication (grades 7-12) and Theatre (grades K-12).

Teacher Licensure in Speech Communication 7-12

Students will complete a major in Speech and Theatre by following a specified program in the Communication Studies concentration. In addition to the University General Studies requirements, students will complete an Enhanced General Education requirement by consulting with a minor advisor and selecting 18 hours in either a foreign language or by selecting 18 hours from the following courses: ENGL 3500, 4510; HIST 2040, 2050, 4770, 4780; WMST 2500; CSCI 1150; RATV 2410; PHIL 2110.

There is also a professional education requirement. Students must contact their minor advisor in professional education for approval of appropriate courses. (For specific procedures and additional requirements for teacher licensure, see page 184.)

Teacher Licensure in Theatre K-12

Students will complete a major in Speech and Theatre by following a specified program in the Theatre concentration. In addition to the University General Studies requirements, students will complete an Enhanced General Education requirement by selecting in consultation with a minor advisor 18 credit hours in one of the following areas: art, dance, English, engineering technology, foreign languages, industrial studies, or mass communication or the interdisciplinary program in Entertainment Technology.

There is also a professional education requirement. Students must contact their minor advisor in professional education for approval of appropriate courses. (For specific procedures and additional requirements for teacher licensure, see page 184.)

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 one of the 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 newly created Ballet Association for students interested in the art of ballet.

University Theatre—The University Theatre program presents four major dramatic productions during the academic year and sponsors a children's theatre company. 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 mid-state area with speech-language and hearing problems are also provided for a very 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 (215) 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 (217/317) 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 (220) 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.
- 2240 (224) Communication in the Interview.** One credit. Effective communication techniques appropriate for the employment and appraisal interviews.
- 2300 (230) Interpersonal Communication.** Three credits. Overview of fundamental principles and theories of interpersonal communication. Foundation preparation for studying other forms of human communication. Classroom exercises.
- 3200 (320) Parliamentary Procedure.** One credit. Principles of parliamentary procedure and their effective application through classroom exercises.
- 3210 (321) Argumentation.** Three credits. Prerequisite: COMM 2200 or permission of instructor. Theory and practice of advocacy speaking with emphasis on organization, refutation, reasoning, and rebuttal. In-class debating on questions of fact value and policy.
- 3220 (322) 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 (325) 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 (323) 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 (330) Communication Theory.** Three credits. Prerequisite: Junior or senior standing or permission of instructor. Scope and purpose of communication, unique aspects of human symbolic behavior, factors involved in the communication process and the role of language in human behavior. Emphasis on interpersonal communication.
- 3325 (325) 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.
- 3620, 3630, 4620, 4630 (362, 363, 462, 463) Applied Speech.** One credit each. Prerequisite: Recommendation by a departmental faculty member. Laboratory courses in which the principles of effective communication and dramatic production are applied.
- 4000 (400) 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 (404) 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 intra-scholastic debate and interscholastic debate activities. Practicum experiences provided.
- 4260 (426) Readings in Speech Communication.** Three credits. Prerequisites: Permission of instructor and completion of 21 semester hours in speech communication courses. Intensive study of a specific area of speech communication; topic is chosen in instructor-student conference.
- 4280 (428) Political Communication.** Three credits. Selected outstanding contemporary speakers and their techniques of speech communication.
- 4320 (432) 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.
- 4560 (456) Intercultural Communication.** Three credits. (Same as AA S 4560.) The dynamics of the communication process as it functions in intercultural contexts; training for successful cross-cultural communication interactions.
- 4700 (470) Senior Seminar in Speech Communication.** Three credits. Intensive investigation of the major research methodologies in speech communication presentation of senior projects and a synthesis of the speech communication discipline.
- 4800 (480 A-Z) Special Topics in Speech 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 (490) Internship in Speech Communication. One to three credits. Practical experience in a professional work setting in a field requiring speech 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 (345) Introduction to Communication Disorders. Three credits. Overview of the most common disorders of hearing, speech, and language, and intervention measures.

3100 (358) Observations in Communication Disorders. One credit. Prerequisite: CDIS 3050. Supervised clinical observation and reporting of therapeutic and diagnostic services in speech-language pathology or audiology. Pass/Fail.

3150 (346) 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 (347) 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 (442) Speech and Language Development. Three credits. Child speech and language acquisition from birth through the early school years. Emphasizes normal linguistic development.

3300 (401) 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 (348) Hearing Problems and Testing. Three credits. The etiologies and diagnoses of hearing problems; practical experience in administering audiometric examinations.

3400 (349) Anatomy and Function of the Speech Mechanism. Three credits. The structures and function of the speech mechanism.

3450 (441) Fluency Disorders. Three credits. Prerequisite: CDIS 3050. Etiologies, assessment, and treatment of fluency disorders.

4500 (351) Training for the Hearing Impaired. Three credits. Prerequisites: CDIS 3050, 3250, and 3350. Materials and methods employed in training the hearing impaired.

4550- (410 A, B, C, D) Practicum in Speech-Language Pathology I. 4580 Three credits each. Prerequisites for 4550: CDIS 3100 and 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 (410E) 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 (462, 463) Applied Speech. One credit each. Prerequisite: Recommendation by a departmental faculty member. Laboratory courses in which the principles of effective communication and dramatic production are applied.

4650 (410F) Practicum in Speech-Language Pathology III. Six credits. Prerequisites: CDIS 4550 and 4560, prior semester application, and approval by faculty. Organization, management, and implementation of public school speech-language and hearing programs. Public school course and advanced supervised clinical practice in a public school setting.

4700- (411 A, B, C, D) Practicum in Audiology. 4730 Prerequisites for 4700: 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 (443) Advanced Audiology. Three credits. Prerequisite: CDIS 3350. The development of advanced skills in the evaluation and remediation of hearing problems.

4800 (453) Speech, Language and Auditory Problems of the Aged. Three credits. Overview of the impact of age on communication. Identification and remediation of communication problems associated with the aging process.

4850 (455) Communication Problems in Children. 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 (460) 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 (465) Special Topics in Communication Disorders. Three credits. Advanced reading and discussion seminar about topics in speech-language pathology or audiology.

Courses in Dance [DANC]

DANC 1010, 1020, 1030, 1040, 2010, 2020, 2030, and 2040 each may count for ONE activity credit in Area V of General Studies provided the student does not also count a comparable dance activity course completed in HPERs.

1000 (100) 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 (101) 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 (102) 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 (103) 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 (104) 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 (201) 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 (202) 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 (203) 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 (204) 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 (301) Modern Dance Techniques III.** Two credits. Prerequisite: 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 (302) 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 (303) 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 (304) 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 (310) 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- (400 A, B, C, D) 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 (400A) Dance Performance I**
4010 (400B) Dance Performance II
4020 (400C) Dance Performance III
4030 (400D) Dance Performance IV
- 4040 (404) 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 (410) Choreography I.** Three credits. Prerequisite: DANC 3100 or permission of instructor. Exploration of movement, technique sequences, and choreographic forms; basic elements of notation.
- 4110 (411) 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 (412) 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 (413) 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 (414) 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 (460) 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 (462) 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 (300) 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 (424) Introduction to Organizational Communication.** Three credits. Theories and processes of communication within organizations.
- 3250 (325) Organizational Communication in Communities.** Three credits. Prerequisites: Approval of department and dean. Theories and techniques involving communication between organizations and their constituencies. Identification and analysis of communication involving corporate philanthropy and fund raising, special events, volunteers, image, crises, and ethical considerations.
- 3500 (350) Innovation and Communication.** Three credits. Prerequisite: Junior standing or permission of instructor. Organizational communication and its relationship to power and influence,

leadership, corporate culture, diversity, change, and innovation. Includes an analysis of the impact of communication on employees, stakeholders, and public policy.

- 3750 (375) Organizational Communication Analysis.** Three credits. Prerequisite: Junior standing or permission of instructor. Critical analysis of organizational communication using research and other methods including studies of content, readability, readership, information dissemination, and organizational effectiveness.
- 4250 (425) 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, ethics, and organizational apologies.
- 4500 (450) 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 (205) Theatre Appreciation.** Three credits. Overview of theatre as an art form. Appreciation and understanding of the production process. Not a performance course.
- 2110 (233) 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 (231) Fundamentals of Acting.** Three credits. The mechanics of acting in terms of physical movement body control and character-building techniques.
- 3000 (302) 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 (334) 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 required.
- 3200 (342) 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 required.
- 3300 (434) 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 (335) Theatre Production.** Three credits. Prerequisite: THEA 2110 or permission of instructor. Lectures and projects in all phases of technical theatre production. Emphasis on planning and staging productions through developing floor plans, sections, working drawings, elevations, and light plots. Major projects in model making for the stage. Laboratory hours and/or crew requirement.
- 3400 (440) 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 (332) Stage Movement.** Three credits. A theoretical and practical study of stage movement. Styles and techniques for physical realization of character and performance.
- 3600 (316) Children's Drama and Speech.** Three credits. Prerequisite: Junior or senior standing or permission of instructor. 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 (352) 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 (437) Theatre Organization and Stage Management.** Three credits. Prerequisite: Permission of instructor. Lectures and practical experience in basic methods and principles of theatre organization and stage management. Emphasis on ways they complement each other while striving to create the desired dramatic effect upon an audience. Major projects required. Crew requirement.
- 3870 (306) Women in Theatre.** Three credits. Women's representation and participation in Western theatre from ancient Greece to the present.
- 3910 (438) 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 (402) 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.
- 4100 (466) 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 (430) 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 indepth historical research, advanced techniques, hair/wig design, creative problem-solving, and portfolio and resume development. Laboratory hours required.
- 4200 (419) 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 (458) 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 indepth research, methods, construction design, management, problem-solving, and portfolio and resume development. Laboratory hours required.
- 4220 (427) 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 (476) 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 indepth research for various performance venues with a focus on student career and portfolio development.
- 4290 (429 A-Z) 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 (454) 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 (464) 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 six semester hours credit may be applied toward a degree.
- 4400 (474) 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.
- 4500 (436) Advanced Acting.** 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 (457) 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 (429) Storytelling.** Three credits. Instruction and experience in the art of storytelling. Individually designed course requirements for educational, professional, corporate, and personal storytelling techniques.
- 4610 (408) 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 (415) 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 (433) 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 (314) 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 (344) 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 (356) 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 (403) 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.

Honors College

The Speech and Theatre Department offers Honors classes in COMM 2200 (SPEE 220, Fundamentals of Communication); COMM 2150 (SPEE 215, Voice and Diction); and COMM 3300 (SPEE 330, Communication Theory.)

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.

School of Journalism

Richard Campbell, Director Mass Communication 249

Applegate, Badger, Bishop, Blake, Bodle, Burriss, Eason, Edy, Haugland, Kimbrell, Mastin, Nagy, Parente, Quinn, Rawls, Ryfe, Woodard, 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, Graphic Communication, 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 90 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.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

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	
English (Area I-A)	6	English (Area II-A)	6
BIOL 1030 (Area IV-A)	4	Gen. Studies (Area III-A)	6
PSCI 1030 or GEOL 1030 (Area IV-A)	4	Consult your adviser for course(s) in the major.	3-6
JOUR 1020, 2710 (Area I-B)	6	PHED (Area V)	2
Gen. Studies (Area II-B)	3	Minor electives*	6
Gen. Studies (Area III-B)	3	Elective(s)	3-6
PHED or MS (Area V)	2	Mathematics (Area IV-B)	3
Elective	3	CSCI 1000 or equivalent	1
	31		30-36

*All students in the School of Journalism are required to complete two 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 towards 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/RATV 1020
JOUR 2710
ADV 3020
ENGL 1010 and 1020
Math course satisfying Area IV-B
- 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>	
P R 3360	Public Relations Communication
JOUR 3530	Feature Writing
P R 3380	Public Relations Publications
GRAF 3950	Microcomputer Design for Media

Conceptual (12 credits)

ADV 3020	Survey of Advertising
<i>Choose three:</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 (3 credits)

<i>Choose one:</i>	
ADV 3480	Advertising Media Planning
ADV 4230	Advertising Management

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 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 two minors, one in liberal arts and sciences and one in the Jennings A. Jones College of Business. With the permission of the adviser and the director of the School of Journalism, a student may replace the minor 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:

- 45 hours completed before applying for candidacy
- Grade of C (2.00) or better in each of the following:
JOUR/RATV 1020
JOUR 2710
P R 3040
ENGL 1010 and 1020
Math course satisfying Area IV-B
- 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 (12 credits)

Writing

JOUR 2710 Media Writing
P R 3360 Public Relations Communication

Choose one:

JOUR 3090 Reporting
JOUR 3530 Feature Writing

Design

Choose one:

P R 3380 Public Relations Publications
GRAF 3950 Microcomputer Design for Media

Conceptual (12 credits)

P R 3040 Public Relations Principles

Choose three:

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:

P R 3400 Case Studies in Public Relations
ADV 3020 Survey of Advertising
GRAF 3910 Basic Media Design

A writing course in School of Journalism approved by adviser

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

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 (12 credits)

Writing

JOUR 2710 Media Writing
P R 3360 Public Relations Communication
RIM 3770 Publicity in the Recording Industry

Design

Choose one:

P R 3380 Public Relations Publications
GRAF 3950 Microcomputer Design for Media

Conceptual (12 credits)

P R 3040 Public Relations Principles
RIM 3600 Survey of the Recording Industry

Choose two:

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:

P R 3400 Case Studies in Public Relations
GRAF 3910 Basic Media Design
RIM 3720 Artist Management
RIM 4320 Concert Promotion
ADV 3020 Survey of Advertising
RIM 3890 International Recording Industry
RIM 4620 Marketing of Recordings

A writing course in School of Journalism approved by adviser

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: Graphic Communication

The Graphic Communication concentration offers students preparation for professional careers in media design, e.g., visual information specialists; designers and editors of publications such as newspapers, magazines, and newsletters; artists, designers, and art directors who work in corporate publishing and other design-related careers in the fields of print and multi-media communication.

Graphic Communication students should take the following courses. **Students should check the prerequisites.**

Admission to Candidacy

To be admitted to candidacy in the Graphic Communication sequence, 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/RATV 1020
JOUR 2710
GRAF 3010
ENGL 1010 and 1020
Math course satisfying Area IV-B
- Minimum overall GPA in all school and university coursework of 2.50.

Graphic Communication Required Courses:

Foundations (6 credits)

JOUR 1020 Understanding Media
JOUR 3650 Free Expression, Mass Media, and the American Public

Writing/Design (12 credits)

Writing (9 credits)

JOUR 2710 Media Writing
JOUR 3090 Reporting

Choose one:

JOUR 3450 Editing
JOUR 3530 Feature Writing
JOUR 4440 Advanced Reporting

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 4800 Seminar in Media Issues

Professional Topics (3 credits)

Choose one:

GRAF 4010 Publication Design
GRAF 3950 Microcomputer Design for Media

Special/Senior Topics (3 credits)

GRAF 4180 Advanced Media Design

Internship (1-3 credits)

JOUR 4000 MC Internship
JOUR 3580 MC Practicum

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:

- 45 hours completed before applying for candidacy
- Grade of C (2.00) or better in each of the following:
JOUR/RATV 1020

JOUR 2710

JOUR 3090

ENGL 1010 and 1020

Math course satisfying Area IV-B

- 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

Courses in Advertising [ADV]

3020 (302) 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 (316) 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 (348) 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 (416) Advertising Copywriting. Three credits. Prerequisite: Admission to candidacy. Advanced techniques and skills in the writ-

ing and design of advertising messages, emphasizing print and electronic media.

- 4170 (417) 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 (423) 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 Graphic Communication [GRAF]

- 3010 (301) Media Design and Visual Language.** Three credits. Overview of concepts for effective visual communication, exploring the role of visual elements and design practices in a cultural, historical, and political context; includes basic typography and design, electronic composition and reproduction, and technological aspects of design and production.
- 3910 (391) Basic Media Design.** Three credits. Prerequisites: Admission to candidacy; JOUR 2710 and GRAF 3010. Basic graphic design process for publication; in-depth analysis of typography, copywriting, art, and illustration; theory and practice of color reproduction; use of microcomputer for design; production methods of design for print and electronic media.
- 3950 (395) Microcomputer Design for Media.** Three credits. Prerequisite: GRAF 3010. Computer design in various publication media; conceptualization, organization, and implementation of design for publication; reviews of software programs, related hardware, and peripheral components applicable to publication design; introduction of electronic publishing procedures. For non-graphics majors who need exposure to the design process.
- 4010 (401) 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; selection and use of photographs and illustrations for publication; preparation of design for print and electronic publication.
- 4180 (418) 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; color reproduction and evaluation of design performance standards.

Courses in Journalism [JOUR]

- 1020 (221) Understanding Mass Media.** Three credits. (Same as RATV 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 (271) 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 (300) Introduction to Motion Pictures.** Three credits. (Same as RATV 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 (309) 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 (310) 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 (345) 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 (351) Media History and American Culture.** Three credits. (Same as RATV 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 (352) Specialized Journalism.** Three credits. Prerequisite: 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 (353) 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 (358) 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 (359) Magazine Writing and Editing.** Three credits. Prerequisites: Admission to candidacy; JOUR 3530. Types of magazines and editorial needs; practice in magazine article writing.
- 3650 (365) Free Expression, Mass Media, and the American Public.** Three credits. (Same as RATV/RIM 3650.) A general introduction to the issues surrounding free expression and its relationship with mass media in contemporary America. Comprehensive analysis of the history, philosophies, cases, and controls associated with freedom of expression.
- 4000 (400) 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 (421) Mass Communication and Society.** Three credits. (Same as RATV 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 (420) Mass Media Law.** Three credits. (Same as RATV 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 (430) 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 (444) 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 (466) Mass Media Research.** Three credits. (Same as RATV 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 (478) 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 (479) Global News and World Media Cultures.** Three credits. (Same as RATV 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 (480) Seminar in Media Issues.** Three credits. (Same as RATV 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.
- 4850 (485) Ethics and Mass Communication.** Three credits. (Same as RATV 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 (490) Individual Problems in Mass Communication.** One to three credits. (Same as RATV 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 (304) Public Relations Principles.** Three credits. Practice of public relations, including its fundamental concepts and theories, historical development, and current issues.
- 3360 (336) Public Relations Communication.** Three credits. Prerequisite: Admission to candidacy. Techniques of creating and writing, including the planning and development of corporate messages.
- 3380 (338) Public Relations Publications.** Three credits. Prerequisite: Admission to candidacy. Effective print-design techniques with emphasis on organizational publications.
- 3400 (340) 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 (474) 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 Radio-Television/Photography

Robert Spires, Interim Chair
Mass Communication 245

Barr, Berg, Bratten, Harris, Jimison, Johnson, Kalwinsky, Norton, Oneal, Parrish, Pegg, Pondillo, Spires, Zheng

Majors in this department work toward a Bachelor of Science degree with a major in Mass Communication and a concentration in either Photography, Radio-Television, or Digital Media Communication.

Students in the Photography concentration take 36 to 42 hours of coursework in the College of Mass Communication. Students in the Radio-Television concentration take 33 to 42 hours of coursework in the College of Mass Communication. Students in the Digital Media Communication concentration take 21 to 42 hours of coursework in the College of Mass Communication. A minimum of 90 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 Radio-Television/Photography 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 Radio-Television/Photography 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 Radio-Television and Photography concentrations may not minor in any area of the College of Mass Communication.

All sequences in the Department of Radio-Television/Photography 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 candidacy as a prerequisite.

In all curricular listings, (Area __) refers to the General Studies requirements as outlined on pages 59-61.

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 on page 286, 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/RATV 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	
English (Area I-A)	6	English (Area II-A)	6
BIOL 1030 and PSCI 1030		HIST 2010, 2020 (Area III-A)	6
or GEOL 1030 (Area IV-A)	8	MATH (Area IV-B)	3
Gen. Studies (Area III-B)	3	PHED (Area V)	2
CSCI 1000 or equivalent	1	PHOT 3040, 3110, 3120	9
Gen. Studies (Area II-B)	3	Minor electives	9
PHED or MS (Area V)	2		35
ART 1610	3		
RATV 1020 (Area I-B)	3		
JOUR 2710	3		
PHOT 2050	3		
	35		

Photography Required Courses**College Core:**

JOUR/RATV 1020 Understanding Mass Media, 3 hours
 JOUR 2710 or equivalent writing competency
 JOUR/RATV 4250 or equivalent law competency

Required Courses:

ART 1610 Two-Dimensional Design
 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
 PHOT 4060 Photojournalism
 PHOT 4280 Editorial Photography

Electives in Major:

Select three courses:

PHOT 3200 Digital Imaging in Photography
 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: 36-42

Other requirements including at least 65 semester hours in liberal arts and sciences: 90-96

Concentration: Radio-Television

The Radio-Television program blends theoretical and “hands-on” approaches to electronic media education. In addition to the core competencies outlined on page 260, 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**

English (Area I-A) 6
 BIOL 1030 and PSCI 1030 or
 GEOL 1030 (Area IV-A) 8
 Gen. Studies (Area I-B) 3
 Gen. Studies (Area III-B) 3
 RATV 1020 3
 JOUR 2710 3
 PHED or MS (Area V) 2
 CSCI 1000 or equivalent 1
 Elective 3
32

SOPHOMORE

English (Area II-A) 6
 History (Area III-A) 6
 Gen. Studies (Area II-B) 3
 RATV 2410, 3120 6
 Minor electives* 6
 PHED or MS (Area V) 2
 Mathematics (Area IV-B) 3
32

Admission to Candidacy

To be admitted to candidacy in the electronic media journalism sequence, 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/RATV 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:
 RATV 2410
 RATV 3120
- Minimum overall GPA in all coursework of 2.50.

Electronic Media Journalism Requirements**College Core:**

JOUR/RATV 1020 Understanding Mass Media, 3 hours
 JOUR 2710 or equivalent writing competency
 JOUR/RATV 4250 or equivalent law competency

Department core:

RATV 2410 Introduction to Electronic Media
 RATV 3120 Sight, Sound, and Motion

Specialty:

RATV 3410 Electronic Media News Writing
 RATV 3500 Electronic Media News Reporting and Producing
 RATV 3740 Advanced Electronic Media News Reporting and Producing

Select one:

RATV 3020 Writing for the Electronic Media
 RATV 3030 Electronic Media Advertising
 RATV 3110 Radio Station Operations
 RATV 3130 Television Production
 RATV 3570 Broadcast Announcing/Performance
 RATV 4140 Electronic Media Programming
 RATV 4430 Electronic Media Management

Required elective (6 hours)*

Optional electives (up to 6 hours)**

Total hours in the college: 33-42

Other requirements including at least 65 semester hours outside Mass Communication in liberal arts and sciences: 90-99

**Any course in the College of Mass Communication except internship, practicum, or independent study.*

***Any course in the College of Mass Communication. May include up to a total of 6 hours from any combination of internship, practicum, or independent study.*

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/RATV 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:
RATV 2410
RATV 3120
4. Minimum overall GPA in all college coursework of 2.50.

Electronic Media Production Requirements

College Core:

JOUR/RATV 1020 Understanding Mass Media, 3 hours
JOUR 2710 or equivalent writing competency
JOUR/RATV 4250 or equivalent law competency

Department Core:

RATV 2410 Introduction to Electronic Media
RATV 3130 Television Production

Specialty:

RATV 3120 Sight, Sound, and Motion
RATV 3140 Multi-Camera Directing and Producing OR
RATV 3150 Single-Camera Directing and Producing
RATV 4940 Advanced Seminar: Electronic Media Production
(6 hours required)

Required electives (9 hours)*

Optional electives (up to 6 hours)**

Total hours in the college: 33-42

Other requirements including at least 65 semester hours outside Mass Communication in liberal arts and sciences: 90-96

**Any course in the College of Mass Communication except internship, practicum, or independent study.*

***Any course in the College of Mass Communication. May include up to a total of 6 hours from any combination of internship, practicum, or independent study.*

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/RATV 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:
RATV 2410
RATV 3120
4. Minimum overall GPA in all college coursework of 2.50.

Electronic Media Management Requirements

College Core:

JOUR/RATV 1020 Understanding Mass Media, 3 hours
JOUR 2710 or equivalent writing competency
JOUR/RATV 4250 or equivalent law competency

Department Core:

RATV 2410 Introduction to Electronic Media
RATV 3120 Sight, Sound, and Motion

Specialty:

RATV 3030 Electronic Media Advertising
RATV 3110 Radio Station Operations
RATV 4010 Electronic Media Sales
RATV 4140 Electronic Media Programming
RATV 4430 Electronic Media Management

Required elective (6 hours)*

Optional electives (up to 6 hours)**

Total hours in the college: 33-42

Other requirements including at least 65 semester hours outside Mass Communication in liberal arts and sciences: 90-99

**Any course in the College of Mass Communication except internship, practicum, or independent study.*

***Any course in the College of Mass Communication. May include up to a total of 6 hours from any combination of internship, practicum, or independent study.*

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/RATV 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
RATV 3300
CSCI 1150 or equivalent
4. Minimum overall GPA in all college coursework of 2.50.

Digital Animation Requirements

College Core:

JOUR/RATV 1020 Understanding Mass Media, 3 hours
JOUR 2710 or equivalent writing competency
JOUR/RATV 4250 or equivalent law competency

Department Core:

RATV 2410 Introduction to Electronic Media
RATV 3120 Sight, Sound, and Motion
RATV 3130 Television Production

Specialty:

PHOT 2050 Basic Black and White Photography
PHOT 3200 Digital Imaging in Photography
RATV 3040 Electronic Graphics for Television
RATV 3300 Introduction to Digital Animation
RATV 3310 Intermediate Digital Animation
RATV 4300 Advanced Digital Animation

Optional electives (up to 6 hours)**

Total hours in the college: 36-42

Required Art minor: 18

Other requirements including at least 65 semester hours outside Mass Communication in liberal arts and sciences including the Art minor: 90-96

***Any course in the College of Mass Communication. May include up to a total of 6 hours from any combination of internship, practicum, or independent study.*

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		SOPHOMORE	
English (Area I-A)	6	English (Area II-A)	6
BIOL 1030 and PSCI 1030 or GEOL 1030 (Area IV-A)	8	History (Area III-A)	6
Gen. Studies (Area I-B)	3	Gen. Studies (Area II-B)	3
Gen. Studies (Area III-B)	3	RATV 2500	3
RATV 1020	3	ART 1610	3
JOUR 2710	3	Minor electives*	6
PHED or M S (Area V)	2	PHED or M S (Area V)	2
CSCI 1150	3	Mathematics (Area IV-B)	3
Elective	3		32
	34		

Admission to Candidacy

To be admitted to candidacy in the Digital Media Communication concentration, 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/RATV 1020
RATV 2500
3. Grade of C or better in each of the following:
CSCI 1150
ART 1610
4. Grade of B or better in ENGL 1010 and 1020 or JOUR 2710
5. Minimum overall GPA in all coursework of 2.50.

Digital Media Communication Requirements

College Core:

JOUR/RATV 1020 Understanding Mass Media, 3 hours

Digital Media Core:

ART 1610 Two-Dimensional Design
CSCI 1150 Computer Orientation
RATV 2500 Survey of New Media Communication
RATV 3120 Sight, Sound, and Motion
RATV 3500 Electronic Media News Reporting and Producing
RATV 4460 Digital Communication Applications (6) OR
RATV 4460 plus RATV 4000 Broadcast Internship (6)

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/RATV 4250 Mass Media Law
JOUR/RATV/RIM 3650 Free Expression, Mass Media, and the American Public

Media Writing Competency

Choose one:

JOUR 2710 Media Writing
RATV 3060 Writing for Digital Media
RATV 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 3620 Production and Operations Systems
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
RATV 4430 Electronic Media Management
RATV 4210 Mass Communication and Society
JOUR 4850 Ethics and Mass Communication
PHOT 4060 Photojournalism
PHOT 4220 Advanced Photojournalism

Specialty D

GRAF 3010 Media Design and Visual Language
GRAF 3950 Microcomputer Design for Media
PHOT 3200 Digital Imaging in Photography
ART 3930 Multimedia Design
ART 4390 Multimedia Authoring I
ART 4400 Multimedia Authoring II
RATV 3300 Introduction to Digital Animation
RATV 3130 Television Production
RATV 4910, 4920, 4930, 4940 Advanced Seminar (select one)
RATV 4600 Electronic Multimedia Production
RIM 3010 Audio for Media
RIM 4200 Applied Digital Audio

General Electives:

5-6 hours

Minors

One required, one optional. Required minor must be in one of the areas not chosen as concentration.

Courses in Photo Communication [PHOT]

- 2050 (205) 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 (304) 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 (311) 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 (312) Intermediate Photography II.** Three credits. Prerequisites: PHOT 3110 and ART 1610. A continuation of 3110. Laboratory required.
- 3200 (320) Digital Imaging in Photography.** Three credits. 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 (358E) 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 (381) 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 (400E) 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 (404) 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 (406) Photojournalism.** Three credits. 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 (419) 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 (422) 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 (427) 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 (428) 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 (429) 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 Radio-Television [RATV]

- 1020 (221) Understanding Mass Media.** Three credits. (Same as JOUR 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.
- 2220 (222) 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 (241) 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 (250) 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 (300) 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 (302) 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 (303) Electronic Media Advertising.** Three credits. Prerequisite: RATV 2410. Principles, techniques, and methods of electronic media advertising including commercial story boards and copywriting.
- 3040 (304) Electronic Graphics for Television.** Three credits. Prerequisites: Admission to candidacy; RATV 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 (306) Writing for Digital Media.** Three credits. Prerequisite: JOUR/RATV 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 (311) Radio Station Operations.** Three credits. Prerequisites: RATV 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 (312) Sight, Sound, and Motion.** Three credits. Prerequisites: RATV 1020; writing competency; RATV 2410 or admission to RI candidacy. Introduces the 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 (313) 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 (314) Multi-Camera Directing and Producing.** Three credits. Prerequisites: Admission to candidacy; RATV 3130. Focuses on the duties and responsibilities of the television director. Emphasis on actual production and directing of video material. Laboratory required.
- 3150 (315) Single-Camera Directing and Producing.** Three credits. Prerequisites: Admission to candidacy; RATV 3130. Techniques of live/tape field production. On-location shooting of features and mini-documentaries; editing techniques, coverage, lighting, sound, and graphics.
- 3300 (330) Introduction to Digital Animation.** Three credits. Prerequisites: Admission to candidacy; ART 1610; 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 (331) Intermediate Digital Animation.** Three credits. Prerequisites: Admission to candidacy; RATV 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 (332) 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 (341) 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 (342) Corporate Video.** Three credits. Prerequisite: RATV 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 (346) 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.
- 3500 (350) Electronic Media News Reporting and Producing.** Three credits. Prerequisites: Admission to candidacy; RATV 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 (351) 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 (357) 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 (358B) 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 (365) 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 with mass media in contemporary America. A comprehensive analysis of the history, philosophies, cases, and controls associated with freedom of expression.
- 3740 (374) Advanced Electronic Media News Reporting and Producing.** Three credits. Prerequisites: Admission to candidacy; RATV 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 (400B) 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 (401) Electronic Media Sales.** Three credits. Prerequisite: RATV 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 (402) Advanced Scriptwriting.** Three credits. Prerequisites: RATV 1020; writing competency; RATV 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.
- 4140 (414) Electronic Media Programming.** Three credits. Prerequisite: RATV 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 (415) Advanced Television Production.** Three credits. Prerequisite: RATV 3140. Preparation and development of scripted and unscripted television programming; principles and aesthetics of production and directing.
- 4210 (421) 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 (420) Mass Media Law.** Three credits. (Same as JOUR 4250.) Prerequisites: RATV 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 (430) Advanced Digital Animation.** Three credits. Prerequisites: Admission to candidacy; RATV 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 (443) Electronic Media Management.** Three credits. Prerequisite: RATV 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 (446) Digital Communication Applications.** Three to six credits. Prerequisite: RATV 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 (458) Disk-Based Audio Post-Production.** Three credits. (Same as RIM 4580.) Prerequisites: RI majors - RIM/MUTH 4190, RIM 4200, RIM 4400, and RATV 3120; RATV majors - RATV 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 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.
- 4600 (460) Electronic Multimedia Production.** Three credits. (Same as RIM 4600.) Prerequisites: RI majors - admission to candidacy, CSCI 1150 or INFS 2200, PHOT 3200, and RIM 4190; RATV majors - admission to candidacy, CSCI 1000, PHOT 3200, and RATV 3300; others - permission of instructor. Advanced, hands-on approach. Systems integration 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.
- 4610 (461) 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 (466) 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 (479) 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 (480) 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.

4850 (485) 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 (490) 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 (491D) 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 RATV/RIM courses. Advanced compositing techniques, particle generation,

and advanced modeling techniques are probable topics. Topics will vary by semester offering.

4920 (491J) 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 RATV/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 (491M) 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 RATV/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 (491P) 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 RATV/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

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
Total hours in the major:	42

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
Total hours in the Major:	42

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		32
CSCI 1150 or INFS 2200	3		
Minor Requirement	3		
	34		

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 2001

This listing reflects the Spring 2001 faculty members and administrators. The date in parentheses is that of first appointment to a position at MTSU.

Smith, R. Eugene, Interim President

B.S., 1957, Middle Tennessee State University; M.A., 1966, Memphis State University; Ph.D., 1979, University of Mississippi. (2000)

Abolins, Mark J., Assistant Professor, Geography and Geology

B.A., 1992, University of California, Berkeley; M.S., 1996; Ph.D., 1998, California Institute of Technology. (1998)

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)

Adamson, Carla J., Instructor, Mathematical Sciences

B.S., 1997, M.S., 1999, Middle Tennessee State University. (2000)

Aday, Ronald H., Professor, Sociology and Anthropology

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)

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, Librarian

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., Administrative Assistant to the President

C.P.S., 1995. (1992)

Alley, Vivian Morgan, Associate 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)

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)

Anderson, Deborah K., Professor, Speech and Theatre

B.F.A., 1973; M.F.A., 1981, University of Florida. (1981)

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)

Anton, Harley F., Assistant Professor, Developmental Studies

B.A., 1973, Samford University; M.A., 1976; Graduate Study, Louisiana State University. (1988)

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)

Armstrong, Rhonda K., Assistant Professor, Librarian

B.B.A., 1980, Middle Tennessee State University; M.L.S., 1991, Indiana University, Bloomington. (1994)

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, 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)

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)

Bader, Carol H., Professor, Developmental Studies; Department Chair

B.A., 1971, Louisiana Tech University; M.A., 1973, Purdue University; Ed.S., 1975; Ph.D., 1978, Louisiana State University. (1987)

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)

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Badley, William, Associate Professor, Developmental Studies; Director, General Studies

B.A., 1967, University of Iowa; M.A., 1971, Southern Baptist Seminary; D.A., 1993, Middle Tennessee State University. (1985)

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)

Baird, Diane N., Assistant Professor, Librarian

B.A., 1965, Austin Peay State University; M.L.S., 1969, George Peabody College; Ed.S., 1979, Vanderbilt University. (1991)

Bakari, Adonijah, Assistant Professor, History

B.S., 1986, Tuskegee University; M.A., 1989, Northeastern Illinois University; Ph.D., 1999, Temple University. (1994)

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)

Barker, Gayle, Payroll Manager, Human Resource Services

B.B.A., 1985; M.B.A., 1989, Middle Tennessee State University. (1985)

Barlow, Bobby, Athletic Trainer, Athletics

B.S. 1987, University of Mississippi; M.Ed., 1991, Mississippi College. (2000)

Barlow, Sarah F., Professor, Biology

B.S., 1959; M.A., 1963; Ed.S., 1985, Middle Tennessee State University; Ed.D., 1991, Vanderbilt University. (1979)

Barnes, Susan G., Assistant Vice President, Office of Vice President for Development and University Relations

B.S., 1970; M.S., 1980, University of Tennessee, Knoxville. (2001)

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., Assistant 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., Associate Professor, Radio-Television/Photography

B.A., 1974, State University College, Oswego, New York; M.F.A., 1978, Memphis State University. (1989)

Bartley, Dianne A.R., Professor, Health, Physical Education, Recreation, and Safety

B.S., 1969, Howard University; M.Ed., 1970, Pennsylvania State University; Ph.D., 1983, University of Maryland. (1991)

Bass, David M., Director, Development Office

B.S., 1982; M.Ed., 1987, Auburn University. (2000)

Batey, Lisa C., Benefits Coordinator, Human Resource Services

C.P.S., 1993; B.B.A., 2000, Middle Tennessee State University. (1990)

Batson, JoAnn, Administrative Systems Analyst, Office of Information Technology

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 Forrest University; Ph.D., 1999, University of North Carolina. (1999)

Beard, Mala L., Assistant 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)

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)

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, The University of Pennsylvania; Ph.D., 1976, The University of Chicago. (1991)

Beltz, Gary, Technical Support Specialist, Office of Information Technology

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)

Berg, Thomas R., Associate Professor, Radio-Television/Photography

B.F.A., 1970, University of South Dakota, M.S., 1974, Iowa State University; Ph.D., 1988, University of Georgia. (1991)

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)

Bernstein, Stuart E., Assistant Professor, Psychology

B.A., 1988, University of Rochester; M.A., 1992; Ph.D., 1996, Michigan State University. (1998)

Bertrand, Nancy P., Professor, Elementary and Special Education
B.S., 1971; M.S., 1975, University of Tennessee; Ph.D., 1983, Ohio State University. (1983)

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, Librarian
B.A., 1972, University of Redlands; M.L.S., 1975, University of Michigan. (1996)

Blair, Robert B., Assistant Professor, Business Education, Marketing Education, and Office Management
B.S., 1986, Oral Roberts University; M.B.E., 1987, Middle Tennessee State University; Ed.D., 1996, University of Memphis. (2000)

Blake, Kenneth, Assistant Professor, Journalism
B.A., 1988; M.A., 1990, Marshall University; Ph.D., 1997, University of North Carolina-Chapel Hill. (1996)

Blevins, T. Michelle, Chapter Coordinator, Alumni Relations
B.S., 1992, University of Kentucky. (1998)

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, Librarian
M.A., 1981, University of Wisconsin; Ph.D., 1992, Indiana University; M.L.S., 1997, University of Missouri. (1999)

Bombardi, Ronald J., Professor, Philosophy; Department Chair
B.A., 1975, LeMoyné 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)

Boone, Nancy, Professor, Music
B.S., 1970, Tennessee Wesleyan College; M.S., 1975, University of Tennessee; Ed.D., 1988, University of Illinois. (1979)

Borasky, Stacey J., Assistant Professor, Social Work
B.S.W., 1987, Shepherd College; M.S.W., 1989, West Virginia University. (1996)

Bordine, Burton W., Professor, Geography and Geology
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., Coordinator, Student Financial Aid
B.B.A., 1981, Middle Tennessee State University. (1991)

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)

Brannon, Tom I., Director, Operations and Administration, Development Office
B.S., 1995, Auburn University. (2000)

Brantley, William, Associate Professor, English
B.A., 1977; M.A., 1981, Georgia State University; Ph.D., 1991, University of Wisconsin, Madison. (1992)

Bratten, L. Clare, Assistant Professor, Radio-Television/Photography
B.A., 1973, Rutgers; M.A., 1995, University of Texas, Austin. (2000)

Bray, Robert, Professor, English
B.A., 1973; M.A., 1976, University of Southwestern Louisiana; Ph.D., 1982, University of Mississippi. (1994)

Breault, Kevin D., Associate Professor, Sociology and Anthropology
B.A., 1978, Reed College; M.A., 1983, University of Washington; Ph.D., 1986, University of Chicago. (1999)

Brewer, Gaylord, Associate Professor, English
B.A., 1985, University of Louisville; M.A., 1988; Ph.D., 1992, Ohio State University. (1993)

Brewer, Roy, Operations Commander and Assistant Director, Public Safety
1996, Northwestern University Traffic Institute, School of Police Staff and Command. (1987)

Brien, Nancy J., Assistant Professor, Developmental Studies
B.S., 1986; M.A., 1987, Murray State University; Ed.S., 1994, Middle Tennessee State University; Ed.D., 1998, Tennessee State University. (1989)

Brink, M. Janine, Contract Review Manager, Business Office
B.B.A., 1982, Middle Tennessee State University. (1994)

Brinthaupt, Thomas M., Professor, Psychology
B.S., 1980, State University of New York; M.A., 1984, St. Bonaventure University; Ph.D., 1989, University of Pittsburgh. (1990)

Brissie, Jane E., Associate Professor, Psychology
B.A., 1968, Carson-Newman College; M.A., 1982, Middle Tennessee State University; Ph.D., 1991, Vanderbilt University. (1989)

Brookhart, Christie, Instructor, English
B.S., 1976; M.A., 1991, Middle Tennessee State University. (1997)

Brooks, John A., Assistant Director, Ticket Operations, Athletics
(2000)

Brooks, Steve, Microcomputer Specialist, Office of Information Technology
B.S., 1979, Middle Tennessee State University. (1998)

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Brookshire, Jerry H., Professor, History

B.A., 1965, University of Georgia; M.A., 1967; Ph.D., 1970, Vanderbilt University. (1972)

Bryant, Layne, Coordinator, Video Conferencing, Division of Continuing Studies and Public Service

B.A., 1998, Appalachian State University. (2000)

Bullard, E. Dwight, Professor, Business Education, Marketing Education, and Office Management; Associate Dean, Jennings A. Jones College of Business

B.S.E., 1964, University of Central Arkansas; M.B.E., 1965; Ed.D., 1971, University of Mississippi. (1965)

Bullen, Robert A., Professor, Educational Leadership

B.S., 1962; M.A., 1963, University of Tennessee; Ed.D., 1969, University of Alabama. (1969)

Bullington, Kimball E., Assistant Professor, Management and Marketing

B.S., 1981, University of Oklahoma; M.S., 1989, Auburn University; Ph.D., 1996, Mississippi State University. (1998)

Bundage, Raphael B., Professor, Music

B.M., 1976, Texas Christian University; M.M., 1983; D.M.A., 1985, Eastman School of Music. (1985)

Burden, D. Andrew, Assistant Professor, Chemistry

B.S., 1987; M.S., 1989; Ph.D., 1993, University of Louisville. (1999)

Burke, Beverly G., Associate Professor, Psychology

B.A., 1974; M.S., 1975, University of Southern Mississippi; M.S., 1981; Ph.D., 1994, Auburn University. (1991)

Burkhart, Brenda H., Director, Internal Audit

B.B.A., 1982, Austin Peay State University; C.P.A., 1986. (1986)

Burks, Darrell R., Graphic Designer, Publications and Graphics

B.F.A., 2000, Middle Tennessee State University. (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)

Burlin, Patricia B., Assistant Professor, Nursing

B.S.N., 1980, University of Alabama, Huntsville; M.S.N., 1983, University of Alabama, Birmingham. (1998)

Burriss, Kathleen Glascott, Associate Professor, Elementary and Special Education

B.A., 1972, State University of New York, Fredonia; M.S., 1975, State University of New York, Buffalo; Ed.D., 1992, Arizona State University. (1992)

Burriss, Larry L., Professor, Journalism

B.A., 1971; M.A., 1972, Ohio State University; M.A. 1978, University of Oklahoma; Ph.D., 1983, Ohio University. (1979)

Burton, E. James, Professor, Accounting; Executive Director, Jones Chairs of Excellence; Dean, Jennings A. Jones College of Business

B.A., 1968, MacMurray College; M.B.A., 1969, Murray State University; C.P.A., 1975; Ph.D., 1976, University of Illinois; C.F.E., 1991. (1990)

Bush, Gayle B., Instructor, Health, Physical Education, Recreation, and Safety

B.S.E., 1985; M.S.E., 1986, Baylor University. (1998)

Bush, James L., Jr., Associate Professor, Accounting

B.B.A., 1967, Georgia Southern College; M.S., 1968, University of Georgia; C.P.A., 1975; Ph.D., 1977, University of Arkansas. (1985)

Bussell, Becky R., Accountant I, Business Office

B.B.A., 1991, Middle Tennessee State University. (1992)

Butler, James, Technical Support Specialist, Office of Information Technology

A.S., 1984, Nashville State Tech. (2000)

Butler, Ralph M., Professor, Computer Science

B.S., 1976, Tennessee Technological University; M.S., 1981; Ph.D., 1985, University of Missouri, Rolla. (2000)

Butler, William H., Jr., Assistant Professor, Biology

B.S., 1963, Fisk University; M.S., 1970, Tennessee State University. (1988)

Buxkamper, Barry B., Associate Professor, Art

B.F.A., 1968, University of Texas, Austin; M.F.A., 1972, University of Illinois. (1989)

Byrd, Dana, Coordinator of Maintenance, Housing and Residential Life

AMA Certification, 1998. (1995)

Byrnes, Mark E., Associate Professor, Political Science

B.S., 1983, Middle Tennessee State University; M.A., 1986, Vanderbilt University; School Diploma, 1987, London School of Economics and Political Science; Ph.D., 1991, Vanderbilt University. (1991)

Cain, Jimmie, Assistant Professor, English

B.A., 1979, Southeastern Louisiana University; M.A., 1982, University of Mississippi; Ph.D., 1996, Georgia State University. (1996)

Calder, James E., Professor, Elementary and Special Education

B.S., 1968, Murray State University; M.Ed., 1971, University of Louisville; Ed.S., 1972, University of Florida; Ed.D., 1982, University of Alabama. (1991)

Camp, Janet C., Supervisor of Educational Services, Center for the Study and Treatment of Dyslexia

B.S., 1963, Bucknell University; M.S., 1965, University of Wisconsin. (1997)

Campbell, A. Ann, Professor, Elementary and Special Education

B.S., 1969; M.S., 1970, University of Tennessee; Ed.D., 1977, Memphis State University. (1981)

Campbell, Donald A., Associate Professor, Mathematical Sciences

B.S., 1966, University of Montevallo; M.A., 1968; Ph.D., 1973, University of Alabama. (1986)

Campbell, Mary Judy, Associate Professor, Nursing

R.N., 1967, Baptist Hospital School of Nursing; B.S. in Nursing, 1969, University of Kentucky; M.S. in Nursing, 1973, University of Alabama; Ed.S., 1997, Middle Tennessee State University. (1988)

Campbell, Richard, Professor, Journalism; School Director

B.A., 1971, Marquette University; M.A., 1980, University of Wisconsin-Milwaukee; Ph.D., 1986, Northwestern University. (1997)

Canak, William L., Professor, Sociology and Anthropology

B.A., 1970, University of Wisconsin-Milwaukee; M.S., 1975; Ph.D., 1981, University of Wisconsin, Madison. (1994)

Cancryn, Dina, Assistant Professor, Music

B.M., 1981, Eastman School of Music; M.M., 1988, Indiana University. (1989)

Cantrell, Ayne, Professor, English

B.S., 1964, Middle Tennessee State University; M.A., 1966, Pennsylvania State University; D.A., 1976, Middle Tennessee State University. (1975)

Caputo, Jennifer L., Assistant Professor, Health, Physical Education, Recreation, and Safety

B.A., 1994, Connecticut College; M.S., 1996; Ph.D., 2000, University of North Carolina, Greensboro. (2000)

Carleton, David E., Associate Professor, Political Science

B.A., 1981, University of Connecticut; M.A., 1983; Ph.D., 1986, Purdue University. (1994)

Carlson, Keith, Professor, Psychology

B.A., 1964, Eureka College; M.S., 1968; Ed.D., 1970, Northern Illinois University. (1970)

Carlton, Robert F., Professor, Physics and Astronomy; Department Chair

B.A., 1964, Middle Tennessee State College; M.S., 1966; Ph.D., 1970, University of Georgia. (1968)

Carroll, Carole C., Associate Professor, Sociology and Anthropology

B.A., 1963, Southern Methodist University; M.A., 1966, North Texas State University; Graduate Study, University of Arizona. (1969)

Carter, Alphonse, Jr., Professor, Engineering Technology and Industrial Studies

B.S., 1972, Jackson State University; M.S., 1977, Memphis State University; Ph.D., 1981, Southern Illinois University. (1981)

Carter, Ami, Assistant to the Dean, College of Mass Communication

B.S., 1994, Purdue University; M.S., 1997, Middle Tennessee State University. (1999)

Casal, Elvira, Assistant Professor, English

B.A., 1976, Tulane University; M.A., 1977, University of Michigan; Ph.D., 1993, Vanderbilt University. (1996)

Case, Gerald D., Assistant Professor, Psychology

B.G.S., 1974, University of Kentucky; M.A., 1978, Western Kentucky University; Ph.D., 1993, Ball State University. (1994)

Cason, Nancy E., Assistant Professor, Art

B.F.A., 1969, Mississippi University for Women; B.S., 1982, Troy State University; Ph.D., 1996, University of North Texas. (1996)

Casson, Flavis L., Instructor, English

B.A., 1990, Middle Tennessee State University; M.A., 1995, University of Tennessee, Chattanooga. (1999)

Caudill, Gerald, Manager, Engineering and Building Services, Environmental Safety

M.S., 1984, University of Chattanooga. (1999)

Chambers, David, Associate Director, Student Financial Aid

B.S., 1981, Middle Tennessee State University. (1992)

Chambers, Kenneth R., Assistant Professor, Health, Physical Education, Recreation, and Safety

B.S., 1964; M.A., 1965; Ed.S., 1967; Graduate Study, University of Alabama. (1967)

Chao, Yuan-ling, Associate Professor, History

B.A., 1981, Hong Kong Baptist College; M.A., 1983, University of California-Santa Barbara; Ph.D., 1995, University of California-Los Angeles. (1995)

Chapman, Carol, Instructor, English

B.A., 1993; M.S., 1998, Middle Tennessee State University. (1998)

Chapman, Richard L., Director, Health Services

B.S., 1989, Union University; M.S., 1991, University of Alabama, Birmingham. (2000)

Chavis, Janie A., Accountant I, Business Office

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B.S., 1964; M.S., 1965, University of Tennessee; M.A., 1969; Ph.D., 1974, LeHigh University. (1972)

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B.S., 1985; M.B.A., 1986, Florida State University; Ph.D., 1992, Pennsylvania State University. (1992)

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B.A., 1958, Duquesne University; B.S., 1972; M.S., 1974, University of Missouri; Ph.D., 1978, Kansas State University. (1991)

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B.S., 1965, Austin Peay State University; M.B.A., 1966, Memphis State University; C.P.A., J.D., 1970, Nashville School of Law; Graduate Study, Mississippi State University. (1966)

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Harris, John Lee, Director, Disabled Student Services

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Hart, William S., Associate Professor, Management and Marketing

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B.S., 1996, Middle Tennessee State University. (1996)

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Heritage, Jeannette, Professor, Psychology

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Herrick, William C., Associate Professor, Aerospace

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Herzer, William A., Health, Physical Education, Recreation, and Safety/Athletics; Assistant Coach, Men's Basketball

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Higdon, Bella, Professor, Elementary and Special Education; Interim Associate Dean, College of Education and Behavioral Science

B.A., 1964, McNeese State University; M.A., 1969, University of Houston; Ed.D., 1973, McNeese State University. (1989)

Higgins, Janet, Professor, Art

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Hillman, Ralph E., Professor, Speech and Theatre

B.A., 1962; M.A., 1965, University of Iowa; Ph.D., 1972, Pennsylvania State University. (1974)

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A.S., 1988, Volunteer State Community College; B.B.A., 1990, Middle Tennessee State University. (1990)

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B.S., 1993; M.B.A., 1996, University of Central Florida. (2001)

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Holder, Pamela G., Professor, Nursing; School Director

B.S.N., 1974; M.S.N., 1979; D.S.N., 1988, University of Alabama, Birmingham. (1999)

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B.S., 1978, Tulane University; M.A., 1984, University of Montana; Ph.D., 1994, University of Arizona. (1994)

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B.A., 1990, University of North Carolina, Chapel Hill; M.A., 1994, University of North Carolina, Greensboro; Ph.D., 1999, Ohio State University. (1999)

Hollowell, Denise, Accounting Manager, Business Office

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Holmes, Judy D., Assistant Professor, Computer Information Systems

B.A., 1974, Vanderbilt University; M.B.A., 1977, University of Tennessee; Ph.D., 1988, Clemson University. (1998)

Holtzclaw, Robert, Associate Professor, English

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Holtzman, David, Area Coordinator, Housing and Residential Life

B.A., 1995, Western Kentucky University; M.Ed., 1998, University of South Dakota. (1998)

Homaifar, Ghassem, Professor, Economics and Finance

B.A., 1972, Tehran University (Iran); M.A., 1978, State University of New York; M.A., 1981; Ph.D., 1982, University of Alabama. (1982)

Hood, Robert L., Assistant Professor, History

B.A., 1990; M.A., 1993, University of North Texas; Ph.D., 1998, Bowling Green State University. (1998)

Hooper, Bret, Instructor, Mathematical Sciences

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Hooper, Jill R., Assistant Professor, Accounting

B.A., 1990, University of Memphis; M.A., 1993, Ohio State University. (2000)

Hopper, Carolyn H., Associate Professor, Developmental Studies

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B.A., 1974, University of Northern Colorado; M.A., 1979, University of Wyoming; Ph.D., 1988, University of Missouri, Columbia. (1989)

Hurt, Jeffrey Scott, Assistant Director, Admissions

B.S., 2000, Middle Tennessee State University. (2001)

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B.S., 1987, Purdue University; M.B.A., 1993, Ball State University; Ph.D., 1997, University of Memphis. (1997)

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A.B., 1972, Clark University; M.A., 1974, University of California, Los Angeles. (1985)

West, Carroll V., Assistant Professor, Center for Historic Preservation, History

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)

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Westerfield, Debbie J., Coordinator, Facilities Services

B.S., 1975, University of Missouri. (1994)

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)

Whitaker, David D., Director, Public Service-Horse Science, Agribusiness and Agriscience

B.S., 1968, University of Tennessee; M.Ed., 1977, Montana State University; Ph.D., 1982, Texas Tech University. (1982)

Whitaker, Rita H., Event Coordinator, Murphy Center Complex

A.S., 1995, Motlow State Community College; B.A., 1998, 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

B.A., 1967, University of Miami; M.S., 1973, North Carolina State University; Ph.D., 1973, Oklahoma State University. (1973)

Wickline, Joe, Assistant Football Coach, Athletics

B.S., 1983, University of Florida. (1998)

Wiel, Randy, Health, Physical Education, Recreation, and Safety/Athletics; Head Coach, Men's Basketball

B.A., 1979; M.A., 1987, University of North Carolina. (1996)

Wiley, Raymond W., Assistant Professor, Health, Physical Education, Recreation, and Safety; Director, Aquatics, Student Recreation Center

B.S., 1980, Campbellsville College; M.A., 1982, Morehead State University. (1994)

Williams, Betsy, Advancement Coordinator, Alumni Relations

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, 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, Title IX Coordinator, Equal Opportunity and Affirmative Action

B.S., 1976; M.P.A., 1982, 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)

Williams, Jerry W., Professor, Agribusiness and Agriscience

B.S., 1965; M.S., 1966, East Texas State University; Ph.D., 1975, University of Tennessee. (1966)

Willis, Clyde E., Associate 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, 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

B.S., 1976; M.S., 1988, Southern Connecticut State College; Ed.D., 1992, Tennessee State University. (1994)

Witherow, Laurie B., Associate Director, Housing and Residential Life

B.A., 1987; M.A., 1988, Indiana University. (1989)

Wolf, Gary, Assistant Professor, Journalism

B.A., 1974, Wabash College; M.S., 1980, Indiana State University-Bloomington. (1996)

Wolf, Michael, Network Support Specialist, Office of Information Technology

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, Telecourse/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)

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)

Wong, Ray, Associate Professor, Journalism

B.S., 1972, Arizona State University; M.A., 1974, University of Missouri. (1995)

Wood, Marilyn S., Instructor, 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, Journalism

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, Paul H., Project Manager, Campus Planning

B.A., 1973, Vanderbilt University; B.A., 1980, University of Tennessee, Knoxville. (1996)

Wright, Stephen M., Associate 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, 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)

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. (1979)

Yelverton, William E., Associate Professor, Music

B.M., 1983, Berklee College of Music; M.M., 1985, University of Miami; D.Mus., 1990, Florida State University. (1989)

Yoo, Jungsoon, Associate 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., Associate 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)

Zamora, John M., Professor, Biology

B.A., 1979, Columbia University; Ph.D., 1984, Auburn University. (1987)

Zawislak, Ronald L., Professor, Geography and Geology; Department Chair

B.A., 1966; M.A.T., 1968, Vanderbilt University; Ph.D., 1980, University of Wyoming. (1988)

Zeh, Dianna, Director, Academic Outreach and Distance Learning, Division of Continuing Studies and Public Service

B.S., 1992; M.S., 1998, Middle Tennessee State University. (1991)

Zha, Xiaoya, Assistant 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)

Ziegler, Roy, Assistant Professor, Librarian

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, Assistant 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, Donald L., Superintendent, Building Services

B.S., 1963; M.S., 1980, Memphis State University. (1982)

Zlotky, Gail L., Assistant Professor, Aerospace

B.S., 1992; M.S., 1994, Middle Tennessee State University. (1996)

Military Science**Giles, Charles M., MAJ, Assistant Professor, Military Science**

B.S., 1976, Middle Tennessee State University. (2000)

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)

Tilton, Charles R., MAJ, Assistant Professor, Military Science

B.S., 1987, Middle Tennessee State University. (1999)

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)

Baker, Jayne D., Resource Teacher

B.A., 1972, Florida Southern College; M.S., 1975, Florida State University; Ph.D., 1992, University of Oregon. (1980)

Bergman, Leigh, Fourth Grade

B.S., 1968; M.S., 1978, Middle Tennessee State University. (1985)

Bouma, Elizabeth, Fourth Grade

B.S., 1977, University of Wisconsin-Whitewater; M.S., 1983, Middle Tennessee State University. (1985)

Bradshaw, Nancy, Second Grade

B.S., 1965; M.Ed., 1979, Middle Tennessee State University. (1982)

Cliche, Cynthia, First Grade

B.S., 1980; M.A., 1985, Berry College. (1990)

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Duke, Jeffery, 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. (1995)

Lasater, Marrie, Fifth Grade

B.S., 1973; M.Ed., 1976, University of Tennessee, Chattanooga. (1990)

Mann, Joan C., Media Specialist, Librarian

B.A., 1968; M.Ed., 1973, Middle Tennessee State University. (1973)

Patterson, Lynn G., Fifth Grade

B.S., 1974; M.Ed., 1977; Ed.S., 1986, Middle Tennessee State University. (1987)

Searcy, Felicia, Third Grade

B.S., 1982; M.S., 1986, University of Southwest Louisiana. (2000)

Seigfried, Debbie, Third Grade

B.S., 1974, Middle Tennessee State University; M.S., 1980, Peabody College. (1991)

Shannon, Sharon Nadine, Second Grade

B.S., 1991, University of Tennessee, Martin; M.Ed., 1990, Trevecca. (1995)

Travis, Virginia, Kindergarten

B.S., 1965; M.Ed., 1975, Middle Tennessee State University. (1976)

Willis, Carole, Third Grade

B.S., 1966; M.S., 1976, Middle Tennessee State University. (1985)

Adjunct, Medical Technology Programs

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. (1994-00)

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. (1972-00)

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)

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)

Ballew, Joseph F., Assistant Professor, English

B.S., 1950, Bob Jones University; M.A., 1955, Graduate Study, University of Tennessee. (1963-80)

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)

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)

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)

Boutwell, Lane L., Professor Emeritus, Speech and Theatre

A.B., 1936, Doane University; M.A., 1939; Graduate Study, Northwestern University. (1947-74)

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. (1969-00)

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. (1981-00)

Burkheart, Hilda Sue, Assistant Professor, Librarian

B.S., 1965, Middle Tennessee State University; M.L.S., 1966, George Peabody College. (1974-01)

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)

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. (1989-00)

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)

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)

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)

Davenport, Harold, Professor, Educational Leadership

B.S., 1957; M.A., 1959, Appalachian State; Ed.D., 1970, University of Tennessee. (1970-96)

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)

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)

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)

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

A.B., 1966; M.A.T., 1967; Ph.D., 1978, Vanderbilt University. (1967-93).

Evans, Joe S., Professor, Mathematical Sciences

B.S., 1954, Middle Tennessee State College; M.S., 1959, Vanderbilt University; Ph.D., 1971, George Peabody College. (1959-97).

Ferris, Norman B., Professor Emeritus, History

B.A., 1953, George Washington University; LL.B., 1956, Blackstone School of Law; M.A., 1957; Ph.D., 1962, Emory University. (1962-97)

Fletcher, J.L., Professor Emeritus, Biology

B.S., 1937, Southwestern Louisiana Institute; M.S., 1939; Ph.D., 1955, Texas A&M. (1961-81)

Ford, Lani A., Associate Professor, Educational Leadership

B.A., 1963, University of Oregon; M.N.S., 1966, Arizona State University; Ph.D., 1971, Michigan State University. (1986-96)

Forrest, Patsy N., Professor Emeritus, Nursing

R.N., 1956; B.S., 1959, Murray State University; M.S.N., 1964, University of North Carolina. (1972-96)

Forrest, Thomas, Professor, Mathematics

B.S., 1954; M.A., 1958, Murray State University; M. Math, 1964, University of Tennessee; Ph.D., 1971, George Peabody College. (1969-89)

Fowler, Lee G., Athletic Director

B.A., 1974, Vanderbilt University; M.S., 1986, Memphis State University. (1994-00)

Freitag, Carl B., Professor, Psychology

B.A., 1961, Louisiana Polytechnic Institute; M.S., 1963, Baylor University; Ph.D., 1972, University of Georgia. (1972-91)

Fullerton, Ralph O., Jr., Professor Emeritus, Geography and Geology; Department Chair

A.B., 1960, University of Kentucky; M.S., 1962; Ed.D., 1971, Indiana University. (1963-97)

Garrigus, Robert R., Professor Emeritus, Agribusiness and Agriscience

B.S., 1958, University of Kentucky; M.S., 1960, University of Illinois; Ph.D., 1963, University of Kentucky. (1967-99)

Gibson, James, Professor Emeritus, Art

A.B., B.S., 1958, Morris Harvey College; M.F.A., 1961, Ohio University. (1970-00)

Gill, Linda, Associate Professor, Librarian

A.B., 1961; M.A. in L.S., 1962, George Peabody College. (1966-00)

Gillespie, George Clifford, Jr., Associate Vice President for Enrollment Management

B.S., 1970; M.Ed., 1971, Middle Tennessee State University; Ph.D., 1976, George Peabody College. (1970-00)

Ginanni, Francis R., Professor Emeritus, English

A.B., 1960, San Jose State College; M.A., 1964, University of Virginia; Ph.D., 1970, Auburn University. (1964-94)

Ginanni, Mary B., Professor, Health, Physical Education, Recreation, and Safety

B.S., 1955, Tennessee Technological University; M.S., 1957, University of Tennessee; Re.D., 1990, Indiana University. (1970-99)

Gist, J.O., Director, Business and Administrative Services

B.S., 1948; M.A., 1967, Middle Tennessee State University. (1964-94)

Given, Robert Edmond, Jr., Director, Sports Information

B.S., 1957, Union University; M.S., 1970, Western Kentucky University. (1983-98)

Gonce, James Howard, Professor, Industrial Studies

B.S., 1949; M.A., 1950, University of Alabama; Ed.D., 1961, George Peabody College. (1952-83)

Gould, Richard H., Professor Emeritus, Engineering Technology and Industrial Studies; Department Chair

B.S., 1952; M.S., 1955, University of Mississippi; Ed.D., 1973, University of Tennessee, Knoxville. (1966-95)

Greene, William F., Professor Emeritus, Accounting

B.S., 1958, Middle Tennessee State University; M.S., 1961, University of Tennessee; C.P.A., 1973; Graduate Study, Mississippi State University. (1968-94)

Grubbs, David, Professor Emeritus, Political Science

A.B., 1951, Maryville College; M.A., 1953, University of Tennessee; Ph.D., 1961, University of Pennsylvania. (1966-94)

Hamilton, Marian M., Professor, Elementary and Special Education

B.A., 1943, Vanderbilt University; M.A., 1964; Graduate Study, George Peabody College; Ed.D., 1974, Memphis State University. (1967-90)

Harris, Thomas M., Associate Professor Emeritus, English

A.B., 1961, Belmont College; M.A.T., 1962, Vanderbilt University. (1964-98)

Harrison, Dorothy W., Director, Development Communications and Marketing, Development Office

B.A., 1962; M.A.C.T., 1972, Middle Tennessee State University. (1976-00)

Harvin, Laurence, Professor, Music

B.M., 1964, University of Alabama; M.M., 1966, University of Oklahoma; D.M.A., 1972, Florida State University. (1966-99)

Hawk, Floyd Richard, Counselor, Counseling and Testing Center

B.S., 1954; M.A., 1958, Middle Tennessee State College; J.D., 1962, Nashville YMCA Law School. (1972-98)

Hayes, Ann C., Sixth Grade, Pittard Campus School

B.S., 1966; M.Ed., 1973, Middle Tennessee State University. (1974-86)

Hayes, Joe Black, Associate Professor, Health, Physical Education, Recreation, and Safety

B.S., 1939, University of Tennessee; M.A., 1950; Graduate Study, George Peabody College. (1950-81)

Helm, John Thomas, Professor, Engineering Technology and Industrial Studies

B.S., 1957; M.S.M.E., 1969, Vanderbilt University. (1991-99)

Herring, Robert, Professor, English

A.B., 1960; M.A., 1961, Mississippi College; Graduate Study, University of Tennessee. (1966-99)

Hill, Donald E., Assistant Professor, Journalism

B.S., 1960, University of Alabama; M.S., 1962, South Dakota State University; Ed.D., 1984, University of Missouri. (1972-94)

Hinton, Thomas Earl, Professor Emeritus, Music

B.M., 1951; M.M., 1954; Ed.D., 1969, George Peabody College. (1960-94)

Hodge, Harry F., Professor, Psychology

B.S., 1959; M.S., 1960, University of Tennessee, Knoxville; Ed.D., 1963, Auburn University. (1980-93)

Holland, Anne V. Cole, Associate Professor, Health, Physical Education, Recreation, and Safety

A.B., 1952, University of North Carolina; M.Ed., 1968, Middle Tennessee State University. (1967-00)

Holland, William, Professor, English

A.B., 1952, Millsaps College; M.A., 1957; Ph.D., 1966, University of Edinburgh. (1966-93)

Hooper, Ernest Walter, Professor Emeritus, History

B.S., 1942, Middle Tennessee State College; M.A., 1949; Ph.D., 1957, University of North Carolina. (1960-82)

Howard, Charles Edwin, Professor Emeritus, English

B.S., 1947, Troy State Teachers College; M.A., 1948, George Peabody College; Ph.D., 1959, Vanderbilt University. (1951-84)

Howard, Phillip, Professor Emeritus, Music

B.S. in Music, 1938, Murray State College; M.M., 1940, American Conservatory of Music, Chicago; Ph.D., 1950, University of Iowa. (1951-84)

Howard, Wera Dross, Assistant Professor, Foreign Languages

B.S., 1950; M.A., 1953, University of Kiel, Germany; Graduate Study, Vanderbilt University. (1969-85)

Howell, Sarah, Professor Emeritus, History

A.B., 1952; M.A., 1967; Ph.D., 1970, Vanderbilt University. (1970-96)

Hunter, Frances G., Assistant Professor, Librarian

B.S., 1947, George Peabody College; M.A., 1965, Middle Tennessee State University; Graduate Study, George Peabody College. (1965-85)

Hutcheson, Paul Henry, Professor Emeritus, Computer Science

A.B., 1950, David Lipscomb College; M.A., 1951, George Peabody College; Ph.D., 1960, University of Florida. (1960-94)

Hutchinson, James H., Professor Emeritus, Chemistry; Department Chair

A.B., 1955, University of Southern Mississippi; M.S., 1960, University of Iowa; Ph.D., 1968, Auburn University. (1969-98)

Ingram, Sam H., President

B.S.E., 1951, Bethel College; M.A., 1953, Memphis State College; Ed.D., 1959, University of Tennessee. (1979-90)

Jack, Jean A., Associate Professor, Aerospace

B.A., 1938; M.A., 1939, University of Nebraska; Graduate Study, Oregon State College, Ohio State University, University of Tennessee. (1970-80)

Jackson, James W., Assistant to Vice President for Business and Finance

B.S., 1943; M.A., 1954, Middle Tennessee State College. (1951-79)

Jackson, Nina, Assistant Professor, Nursing

R.N., 1944, Knoxville General Hospital; B.S.P.H.N., 1962, George Peabody College; M.A., 1965, Middle Tennessee State University. (1966-80)

Jackson, William Dayton, Associate Professor, Radio-Television/Photography

B.S., 1952, Auburn University; M.S., 1958; Ed.D., 1967, Indiana University. (1974-92)

Jacobs, George W., Associate Professor, Management and Marketing

B.B.A., 1956, University of Georgia; M.B.A., 1960; Ph.D., 1979, Georgia State University. (1979-99)

James, John B., Associate Professor, Economics and Finance

B.S., 1964, Austin Peay State University; M.S., 1967; Ph.D., 1970, Texas A&M University. (1969-98)

James, Mary Jo, Director, Media Services, Learning Resources Center

B.A., 1963, Oakland University; M.S.L.S., 1967, Wayne State University. (1975-90)

Jennings, Raymond Oakley, Associate Professor, Chemistry and Physics

B.S., 1947, Middle Tennessee State College; M.A., 1951; Graduate Study, George Peabody College. (1962-85)

Jennings, Thelma, Professor Emeritus, History

B.S., 1953; M.A., 1962, Middle Tennessee State University; Ph.D., 1968, University of Tennessee. (1966-85)

Jewell, Harold S., Professor Emeritus, Industrial Studies

B.S., 1948; M.A., 1953, Middle Tennessee State College. (1955-91)

Jolly, Ella T., Third Grade

B.S., 1955; M.Ed., 1972, Middle Tennessee State University. (1973-92)

Jones, Bertha, Assistant Professor, Home Economics

B.S., 1953, East Carolina College; M.Ed., 1955, University of North Carolina; Graduate Study, University of Maryland. (1968-73)

Keem, George, Professor, Elementary Education

B.S., 1947; M.S., 1952; Ed.D., 1962, Wayne State University. (1969-81)

Keese, Earl E., Professor, Mathematical Sciences; Dean, College of Basic and Applied Sciences

B.S., 1963, Texas A&M University; M.Ed., 1966, West Texas State University; M.Math, 1967, University of South Carolina; Ph.D., 1972, George Peabody College. (1969-99)

Kemp, James, Associate Professor, Biology

B.S., 1959; M.A., 1969, Middle Tennessee State University; Graduate Study, North Carolina Central, Shorter College, University of North Carolina. (1971-95)

Key, Charlene B., Assistant Professor, Developmental Studies

B.S., 1962; M.S.T., 1967; Ed.S., 1992, Middle Tennessee State University. (1986-96)

Kirkman, Loisteen, Assistant Professor, English

A.B., 1958, Ouachita College; M.A., 1970, Middle Tennessee State University. (1970-93)

Kittrell, Frederick J., Professor Emeritus, Economics and Finance

B.A., 1950, David Lipscomb College; Certificate in Sales Management 1955, General Motors Institute; M.B.A., 1967; Ph.D., 1970, University of Mississippi. (1971-99)

Kohland, William F., Professor Emeritus, Geography and Geology

A.B., 1951, Bucknell University; M.S., 1952; Ph.D., 1969, University of Tennessee. (1967-92)

LaLance, Richard, Professor, Health, Physical Education, Recreation, and Safety

B.S., 1964, West Virginia University; M.Ed., 1970; D.A., 1975, Middle Tennessee State University. (1970-99)

LaLance, Robert C., Jr., Assistant Professor Emeritus, Health, Physical Education, Recreation, and Safety; Vice President for Student Affairs

B.S., 1962, West Virginia University; M.S., 1963, University of Tennessee; D.A., 1974, Middle Tennessee State University. (1963-98)

LeDoux, David G., Professor Emeritus, Art

A.B., 1947, Louisiana College; M.A., 1950, Louisiana State University; Graduate Study, Ohio State University. (1956-94)

Levi, Lester Wright, Associate Professor, Mathematical Sciences

A.B., 1949, Carson-Newman College; B.D., 1952, Southern Baptist Seminary; M.A., 1960; Graduate Study, George Peabody College. (1961-90)

Lindsey, Richard, Associate Professor, Youth Education and School Personnel Services

B.S., 1948; M.S., 1951, Indiana State College; Ed.D., 1962, George Peabody College. (1969-81)

Lowe, Larry V., Professor Emeritus, Speech and Theatre

A.B., 1952, Mercer University; M.F.A., 1959, University of Georgia; Ph.D., 1965, Michigan State University. (1963-97)

Maples, Wallace, Professor Emeritus, Aerospace

B.S., 1963, Middle Tennessee State University; M.S., 1965, University of Tennessee; Ed.D., 1970, Indiana University. (1969-1995)

Marshall John David, Professor Emeritus, Librarian; University Bibliographer

B.A., 1950, Bethel College; M.A. in L.S., 1951, Florida State University; Graduate Study, Oxford University. (1967-94)

Martin, Barbara L., Director, Health Services

R.N., 1956, St. Thomas Hospital, Nashville; B.S., 1961; M.A., 1965, Middle Tennessee State University. (1974-98)

Martin, Mary W., Professor Emeritus, Educational Leadership; Dean, College of Graduate Studies

B.S., 1952, Ohio State University; M.A., 1965, Memphis State University; Ed.D., 1967, University of Tennessee, Knoxville. (1968-94)

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)

Mast, John A., Assistant Professor, English

B.S., 1960; M.A., 1962, Appalachian State Teachers College. (1962-79)

McBroom, James, Associate Professor, Sociology, Anthropology, and Social Work

B.S., 1941, Auburn University; M.A., 1947, George Peabody College; Graduate Study, Vanderbilt University. (1966-85)

McClaran, James C., Assistant Director, Human Resource Services

B.S., 1955; M.A., 1956, Middle Tennessee State University. (1973-95)

McCord, Charles, Associate Professor, Librarian

B.S., 1949, Auburn University; M.A., 1952; M.A.L.S., 1959, George Peabody College. (1961-92)

McCord, Richard L., Professor, Mathematical Sciences

B.S., 1953, Middle Tennessee State College; M.A., 1956; Ph.D., 1970, George Peabody College. (1956-96)

McCullough, Martin A., Professor, Educational Leadership

B.S., 1954; M.Ed., 1960, Middle Tennessee State University; Ed.D., 1963, Peabody College. (1987-99)

McFall, Betty N., Assistant Professor, Librarian

B.A., 1963, Mississippi University for Women; M.L.S., 1980, University of South Carolina. (1986-98)

McFerrin, Florence, Assistant Professor, Mathematics and Computer Science

A.B., 1936, Tennessee College for Women; M.A., 1961, Middle Tennessee State College; Ed.S., 1970, George Peabody College. (1965-78)

McMurry, Daniel W., Professor Emeritus, Sociology, Anthropology, and Social Work

B.A., 1958; M.A., 1962; Graduate Study, University of North Carolina. (1968-97)

McNeill, Mary Frances Snell, Eighth Grade, Pittard Campus School

B.S., 1930, Middle Tennessee State College; M.A., 1933, Columbia University. (1938-71)

Mills, Roy N., Associate Professor, Art

B.F.A., 1950, Minnesota School of Art; M.A., 1952, Western Reserve University; Graduate Study, Youngstown College. (1966-76)

Moffett, Enoch Albert, Associate Professor, Radio-Television/Photography

B.S., 1959, University of Florida; M.A., 1984; Ph.D., 1987, University of Georgia. (1991-98)

Moody, Thomas L., Professor, Physics and Astronomy

B.S., 1961, Auburn University; M.S., 1965, University of Tennessee. (1966-99)

Moore, Newell S., Professor Emeritus, History

B.S., 1948; M.A., 1949; Ph.D., 1954, George Peabody College. (1954-95)

Moore, Sarah, Assistant Professor, Librarian

B.S., 1931; B.S. in L.S., 1946, George Peabody College. (1955-74)

Moser, Jean H., Instructor, Developmental Studies

B.A., 1954; M.A., 1962, Middle Tennessee State University. (1985-94)

Mueller, Hans G., Professor Emeritus, Economics and Finance

A.B., 1955, University of Washington; Ph.D., 1968, Vanderbilt University. (1961-93)

Mullins, William E., Assistant Professor, Industrial Studies

B.S.E.E., 1962, University of Louisville; M.S., 1983; Graduate Study, Middle Tennessee State University. (1984-94)

Naylor, Tom L., Professor Emeritus, Music

B.S., 1961, Bob Jones University; M.A., 1962, Appalachian State University; M.M., 1969; D.M., 1973, Indiana University. (1967-98)

Neal, James H., Professor Emeritus, History

B.S., 1958; M.A., 1963, University of Houston; Ph.D., 1971, Vanderbilt University. (1968-99)

Nichols, Jeanette, Assistant Professor, English

A.B., 1950, Montreat College; M.A., 1962; Ed.S., 1970, George Peabody College. (1966-84)

Norwood, Francis W., Instructor, Criminal Justice Administration

B.S., 1940, Mississippi State University; M.P.A., 1974, Middle Tennessee State University, University of Tennessee. (1977-82)

O'Gwynn, Lucille Estes, Associate Professor, Home Economics

B.S., 1934, Alabama College; M.A., 1956, Alabama Polytechnic Institute; M.S., 1957, University of Alabama. (1957-77)

Ordoubadian, Reza, Professor, English

B.A., 1954, Teheran University; Graduate Study, Duke University, Vanderbilt University; M.A., 1965; Ph.D., 1968, Auburn University. (1962-89)

Parchment, J. Gerald, Professor, Biology

B.S., 1944, Middle Tennessee State College; M.A., 1947, George Peabody College; Ph.D., 1961, Vanderbilt University. (1949-89)

Parker, Austin D., Financial Management Analyst

B.S., 1958, University of Tennessee; M.B.A., 1973, Middle Tennessee State University. (1967-95)

Parker, Chester, Associate Professor, Psychology

B.A., 1945; B.D., 1951, Butler University; M.A., 1968; Ed.D., 1971, Ball State University. (1971-87)

Parker, Harold, Professor Emeritus, Philosophy; Department Chair

B.A., 1956, Eastern Nazarene College; M.A., 1958, University of Kansas; Ph.D., 1967, Emory University. (1968-95)

Patterson, Linda, Assistant Professor, Health, Physical Education, Recreation, and Safety

B.S., 1967; M.Ed., 1968, Middle Tennessee State University; Graduate Study, Indiana University. (1968-99)

Patton, Dewey, Associate Professor, Aerospace

B.A.S., 1960, University of Maryland; M.A., 1966, University of Southern California. (1971-96)

Payne, Roberta S., Assistant Professor, Librarian

B.S., 1956, Austin Peay State College; M.A. in L.S., 1964, George Peabody College. (1962-76)

Penny, Guy, Professor Emeritus, Health, Physical Education, Recreation, and Safety; Director, The Wellness Center

B.S., 1950; M.Ed., 1958, University of Mississippi; Ed.D., 1970, University of Southern Mississippi. (1970-93)

Penrod, William, Professor Emeritus, Psychology

B.A., 1951, Carson-Newman College; M.S., 1959, University of Miami; Ph.D., 1962, University of Florida. (1970-93)

Phillips, Burns, Associate Professor, Mathematics and Computer Science

B.S., 1948, Middle Tennessee State College; M.A., 1949; Graduate Study, George Peabody College. (1957-83)

Pigg, Charles, Director, Campus Planning

B.S., 1955; M.Ed., 1976, Middle Tennessee State University. (1965-92)

Poole, Finis W., Associate Professor, Psychology; Counselor, Guidance and Counseling Center

A.B., 1948; M.A., 1949, Highlands University; Graduate Study, George Peabody College. (1954-84)

Poole, Jane, Associate Professor, Elementary and Special Education

B.S., 1954, George Peabody College; M.Ed., 1972; Ed.S., 1979, Middle Tennessee State University. (1975-00)

Porter, T. Coy, Professor, Foreign Languages

B.A., 1944, Harding College; M.A., 1946; Ph.D., 1968, Vanderbilt University. (1964-85)

Potts, Marie T., Assistant Professor, Nursing

B.S.N., 1959, St. John College of Cleveland; M.S.N., 1987, University of Tennessee, Knoxville. (1981-96)

Pratt, James O., Associate Professor, Engineering Technology and Industrial Studies

B.S., 1976, Southern Missionary College; M.A.T., 1977, Middle Tennessee State University. (1981-97)

Price, Kathryn, Associate Professor, Human Sciences

B.S., 1964, Austin Peay State University; M.Ed., 1970, University of Illinois. Graduate Study, United States International University, Middle Tennessee State University. (1975-98)

Price, William H., Associate Professor, Mathematical Sciences

B.S., 1962, Austin Peay State College; M.A., 1963, George Peabody College; Graduate Study, University of Illinois and George Peabody College. (1964-97)

Pugh, E. Hixson, Purchasing Agent

B.S., 1950, University of Tennessee. (1965-87)

Raper, Elmer, Professor, Education

B.S.A., 1946, University of Chattanooga; M.S., 1950; Ed.D., 1957, University of Tennessee. (1957-74)

Rawlins, N. Omri, Professor, Agribusiness and Agriscience

B.S.A., 1961; M.S., 1963, University of Georgia; Ph.D., 1968, Texas A&M University. (1968-99)

Ray, John B., Professor, Geography and Geology

B.S., 1951, Indiana State College of Pennsylvania; M. Litt., 1956, University of Pittsburgh; Ph.D., 1968, Indiana University. (1975-91)

Read, Ida Dunaway, Assistant Professor, Librarian

A.B., 1945, Tennessee College for Women; M.A., 1959, Middle Tennessee State College. (1965-87)

Reeder, Ernestine N., Professor Emeritus, Human Sciences; Department Chair

B.S., 1959, East Carolina College; M.S., 1962, University of Tennessee; Ed.S., 1972, George Peabody College; Ph.D., 1977, University of Tennessee. (1972-94)

Reeder, Glen P., Professor Emeritus, Health, Physical Education, Recreation, and Safety

B.S., 1949; M.S., 1954, University of Tennessee; Ph.D., 1959, State University of Iowa. (1971-93)

Riel, Francis J., Professor Emeritus, Health, Physical Education, Recreation, and Safety

A.B., 1939; M.S., 1941, University of Massachusetts; Ed.D., 1951, Boston University. (1949-77)

Rogers, Walter B., Professor, Economics and Finance

B.S., 1951, Texas Technological University; M.S., 1953, University of Arizona; Ph.D., 1959, Oklahoma State University. (1981-99)

Rolater, Frederick S., Professor Emeritus, History

A.B., 1960, Wake Forrest College; M.S., 1963; Ph.D., 1970, University of Southern California. (1967-00)

Roose, Robert S., Director, Technical Assistance

B.S., 1942, Otterbein College. (1983-90)

Rucker, Ellis S., Jr., Professor, Biology

B.S., 1935, Middle Tennessee State College; M.A., 1938; Ph.D., 1946, George Peabody College. (1946-79)

Rucker, Nannie, First Grade, Pittard Campus School

B.S., 1948; M.S., 1957, A & I State University. (1969-80)

Sakas, Joseph, Associate Professor, Youth Education and School Personnel Services

B.S., 1962; M.A., 1963, Austin Peay State University; Ed.D., 1967, George Peabody College. (1966-84)

Sams, Everette E., Professor, Educational Leadership

B.S., 1953, East Tennessee State University; M.A., 1956; Ed.S., 1961, George Peabody College; Ed.D., 1969, University of Tennessee. (1964-96)

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. (1988-00)

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)

Sharp, Ralph E., Professor, Biology

B.S., 1958, Middle Tennessee State College; M.Ed., 1965; Ed.D., 1972, University of Georgia. (1965-94)

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, Helen, Associate Professor, Geography

A.B., 1937, University of Colorado; M.A., 1941, George Peabody College; Ph.D., 1958, Clark University. (1970-74)

Smith, Jesse L., Professor, Mathematics and Computer Science

A.B., 1940, Mississippi College; M.A., 1949; Graduate Study, George Peabody College. (1954-78)

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, 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. (1973-00)

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. (1982-00)

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, 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)

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. (1965-00)

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)

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. (1980-00)

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)

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-??)

Wilkinson, Virginia, Associate Professor, Librarian
B.S., 1938, Middle Tennessee State College; M.A. in L.S., 1952, George Peabody College. (1952-80)

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)

Wiser, J. Eldred, Professor, Chemistry and Physics; Department Chair
B.S., 1938, Middle Tennessee State College; M.A., 1940; Ph.D., 1947, George Peabody College. (1946-81)

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)

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)

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).

A student is any person who is or has been enrolled 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, date 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 Non-Release of Directory Information must be signed 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 or until enrollment ceases at MTSU. If the student re-enrolls and does not want directory information released, another Request for Nonrelease of Directory Information form must be completed.

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 in order 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 directory 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 from 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.

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, DC 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 which were 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 applies 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 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 Catalog. *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
Non-release Lists	Information concerning non-release of records	Faculty/staff with official need	Director of Records
Withdrawal Records	Demographic; reason for withdrawal	Faculty/staff with official need	Director of Records
Student Folder (Undergraduate)	Application for admission, receipt for admission fee, high school transcript, previous college transcript, general correspondence, ACT and GED 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 Sheets	Students in each class and final grade	Faculty/staff with official need	Director of Records
Drop/Add Forms	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
Veteran's Administration Files	Enrollment data, dates of attendance	Staff with official need	Director of Records
Change of Name, Address, Telephone Number Form	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, 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	Placement 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 Counseling and Testing Center
Payroll	Payments, withholdings	Payroll clerks, officer supervisors	Business Manager
Payroll, maintenance	Number of hours worked and rate of pay	Maintenance Office personnel	Director of Facilities Services
Loans	Amount borrowed, repayments, correspondence	Loan supervisor and clerks in Loan Office	Business Manager
Student Receivables	Amounts due from students for various reasons, i.e., rents parking violations, fee errors	Business Office staff	Business Manager
Dishonored Checks	Amounts of checks, correspondence, etc.	Business Office staff	Business Manager
Student Deposits	Deposit amounts, date deposited, purpose, etc.	Business Office staff	Business Manager
Student Registration Records (Payments)	Fees paid, type, etc.	Business Office staff	Business Manager
Sun Belt Conference Eligibility List	Student's academic standing for eligibility to participate in intercollegiate athletics	Staff	Athletic Director

How to Obtain Applications

MTSU Undergraduate Admission Application

**New applicants
apply online!**

<http://www.applyweb.com/aw?mtsu>

Re-enrolling applicants: <http://www.mtsu.edu/~admissn/reenrappl.html>

The admission application is included in the *Admissions Viewbook*. Should you not have a viewbook, you can receive an application by one of the following methods:

PHONE: (615) 898-5698
1-800-331-MTSU (in Tennessee)
1-800-433-MTSU (outside Tennessee)

E-MAIL: admissions@mtsu.edu

WEB SITE: <http://www.mtsu.edu>

WRITE: Admissions Office
208 Cope Administration Building
Murfreesboro, TN 37132

FAX: (615) 898-5478

Application packets for all non-U.S. citizen applicants can be obtained from the International Programs and Services Office by one of the following methods:

WEB SITE: <http://www.mtsu.edu/~ipso>

PHONE: 1-615-898-2238

WRITE: IPSO
202 Cope Administration Building
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: <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!